



# **v2019-07-25 Property Manager Deprecated Rule Formats**

January 4, 2023

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## v2019-07-25 criteria

v2019-07-25 criteria

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## Notice

Notice

## Welcome

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Akamai often modifies Property Manager API (PAPI) features, each time deploying a new internal version of the feature. By default, the Property Manager interface in [Control Center](#)<sup>+</sup> uses the latest available feature versions and you may be prompted to upgrade your configuration. In the interest of stability, PAPI does not support this system of selective updates for each feature. Instead, PAPI's rule objects are simply versioned as a whole. These versions, which update infrequently, are known as rule formats.

PAPI supports different dated versions for the set of features available within a property's rule tree. Akamai releases a new stable version of a rule format twice a year on average. As best practice, you should upgrade to the most recent dated rule format available. See [API versioning](#) for details.

This guide provides details for all behaviors and criteria the Property Manager API supports in the v2019-07-25 **deprecated** rule format version. The version available to you is determined by the product and modules assigned to the property. You can get it by running the [List available behaviors for a property](#) operation.

## API versioning

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The API exposes several different versioning systems:

- The version of the API is specified as part of the URL path. The current API version is `v1`.
- The API supports different dated versions for the set of features available within a property's rule tree. You can [freeze](#) and smoothly [update](#) the set of features that a property's rules apply to your content. Each behavior and criteria you invoke within your rules may independently increment versions from time to time, but you can only specify the most recent dated rule format to freeze the set of features. Otherwise, if you assign the `latest` rule format, features update automatically to their most recent version. This may abruptly result in errors if JSON in your rules no longer comply with the most recent feature's set of requirements.



Once you've frozen a rule format in PAPI, that state persists even if you use the Property Manager interface in [Control Center](#)<sup>\*</sup>. You no longer get any feature upgrade prompts.

- The latest set of features are detailed in the [behavior](#) and [criteria](#) reference.
- PAPI lets you access your own set of property versions. Versions are available as URL resources that you can modify and activate independently, or perform roll-back if needed. This set is the only versioned object under your direct control.
- The API's [Build interface](#) also provides details on the current software release and its accompanying *catalog* of behaviors and criteria. These include version numbers and extraneous commit and build dates, which bear no relation to dated rule format versions. Don't rely on any of the internal version numbers this interface makes available.

Expect internal catalog release versions to update the most frequently, followed by less frequent rule format versions, followed by infrequent new API versions.

## Advanced and locked features

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In addition to its `name` and component `options`, special types of behavior and criteria objects may feature these additional members:

- A `uuid` string signifies an *advanced* feature. Advanced behaviors and criteria are read-only, and can only be modified by Akamai representatives. They typically deploy metadata customized for you, whose functionality falls outside the predefined guidelines of what other read/write behaviors can do. Such metadata might also cause problems if executed outside of its intended context within the rule tree. Throughout the behavior and criteria reference, advanced features are identified as *read-only*.
- If a `locked` boolean member is `true`, it indicates a behavior or criteria that your Akamai representative has *locked* so that you can't modify it. You typically arrange with your representative to lock certain behaviors to



protect sensitive data from erroneous changes. Any kind of behavior or criteria may be locked, including writable ones.

When modifying rule trees, you need to preserve the state of any `uuid` or `locked` members. You receive an error if you try to modify or delete either of these special types of feature. You can reposition regular features relative to these special ones, for example by inserting them within the same rule, but each rule's sequence of special features needs to remain unchanged.

Higher-level rule trees may also indicate the presence of these special features:

- A `uuid` member present on a rule object indicates that at least one of its component behaviors or criteria is advanced and read-only. You need to preserve this `uuid` as well when modifying the rule tree.
- A `criteriaLocked` member enabled on a criteria rule by your Akamai representative means that you may *not* insert additional criteria objects within the sequence. This typically keeps complex logical tests from breaking. Preserve the state of `criteriaLocked` when modifying the rule tree.

## v2019-07-25 behaviors

### v2019-07-25 behaviors

This section provides details for all behaviors the Property Manager API supports for the `v2019-07-25` rule format version. The set available to you is determined by the product and modules assigned to the property. You can get it by running the [List available behaviors](#) operation.

This `v2019-07-25` rule format provides an older deprecated set of PAPI features. You should use the most recent dated rule format available. See [API versioning](#) for details.

#### Option requirements

PAPI's behaviors and match criteria often include cross-dependent options, for which this reference documentation provides details in a *Requires* table column. For example, suppose documentation for a `cloudletSharedPolicy` option specifies this as *Requires*:

```
isSharedPolicy is true
```

That means for the `cloudletSharedPolicy` to appear in the object, you need to also have `isSharedPolicy` set to `true` :

```
{
  "isSharedPolicy": true,
  "cloudletSharedPolicy": 1000
}
```

Often you include options in behavior or criteria objects based on the match of a string value. Documentation also indicates any set of high-level logical *AND* and *OR* validation requirements.

### adScalerCircuitBreaker


- **Property Manager name:** [Ad Scaler Circuit Breaker](#) <sup>↗</sup>
- **Behavior version:** The `v2019-07-25` rule format supports the `adScalerCircuitBreaker` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior works with [manifestRerouting](#) to provide the scale and reliability of Akamai network while simultaneously allowing third party partners to modify the requested media content with value-added features. The `adScalerCircuitBreaker` behavior specifies the fallback action in case the technology partner encounters errors and can't modify the requested media object.

| Option              | Type    | Description  | Requires |
|---------------------|---------|--|----------|
| responseDelay Based | boolean | Triggers a fallback action based on the delayed response from the technology partner's server. |          |

| Option                            | Type               | Description   | Requires   |
|-----------------------------------|--------------------|---|--|
| responseDelay Threshold           | enum               | Specifies the maximum response delay that, if exceeded, triggers the fallback action.   | responseDelayBased is true                                 |
|                                   |                    | <b>Supported values:</b><br><div>500ms</div>  |  |
| responseCode Based                | boolean            | Triggers a fallback action based on the response code from the technology partner's server.   |  |
| response Codes                    | string             | Specifies the codes in the partner's response that trigger the fallback action, either 408 , 500 , 502 , 504 , SAME_AS_RECEIEVED , or SPECIFY_YOUR_OWN for a custom code. | responseCodeBased is true                                  |
| fallbackAction ResponseCode Based | enum               | Specifies the fallback action.  | responseDelayBased is true<br>OR responseCodeBased is true |
|                                   | RETURN_AKAMAI_COPY | Return an unmodified Akamai copy of the manifest file to the requesting client.   |  |
|                                   | RETURN_ERROR       | Return an error as the server response.   |  |
| returnError ResponseCode Based    | enum               | Specifies the error to include in the response to the client.   | fallbackActionResponseCodeBased is RETURN_ERROR            |
|                                   | SAME_AS_RECEIEVED  | Return the same error received from the partner platform.   |  |
|                                   | 408                | Return a 408 error.   |  |
|                                   | 500                | Return a 500 error.   |  |
|                                   | 502                | Return a 502 error.   |  |
|                                   | 504                | Return a 504 error.   |  |
|                                   | SPECIFY_YOUR_OWN   | Customize the error.  |  |
| specifyYour OwnResponseCodeBased  | string             | Defines a custom error response.  | returnErrorResponseCodeBased is SPECIFY_YOUR_OWN           |

## adaptiveAcceleration

- **Property Manager name:** [Adaptive Acceleration](#) 
- **Behavior version:** The v2019-07-25 rule format supports the adaptiveAcceleration behavior v1.9.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Adaptive Acceleration uses HTTP/2 server push functionality with Ion properties to pre-position content and improve the performance of HTML page loading based on real user monitoring (RUM) timing data. It also helps browsers to

preconnect to content that's likely needed for upcoming requests. To use this behavior, make sure you enable the [http2](#) behavior. Use the [Adaptive Acceleration API](#) to report on the set of assets this feature optimizes.

| Option           | Type    | Description   |
|------------------|---------|---|
| source           | string  | The source Adaptive Acceleration uses to gather the real user monitoring timing data, either <code>mPulse</code> or <code>realUserMonitoring</code> . The recommended <code>mPulse</code> option supports all optimizations and requires the <code>mPulse</code> behavior added by default to new Ion properties. The classic <code>realUserMonitoring</code> method has been deprecated. If you set it as the data source, make sure you use it with the <code>realUserMonitoring</code> behavior. |
| enablePush       | boolean | Recognizes resources like JavaScript, CSS, and images based on gathered timing data and sends these resources to a browser as it's waiting for a response to the initial request for your website or app. See <a href="#">Automatic Server Push</a> for more information.   |
| enablePreconnect | boolean | Allows browsers to anticipate what connections your site needs, and establishes those connections ahead of time. See <a href="#">Automatic Preconnect</a> for more information.   |
| preloadEnable    | boolean | Allows browsers to preload necessary fonts before they fetch and process other resources. See <a href="#">Automatic Font Preload</a> for more information.  |
| enableRo         | boolean | Enables the Resource Optimizer, which automates the compression and delivery of your <code>.css</code> , <code>.js</code> , and <code>.svg</code> content using a combination of Brotli and Zopfli compressions. The compression is performed offline, during a time to live that the feature automatically sets.   |

## adaptiveImageCompression

- **Property Manager name:** [Adaptive Image Compression](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `adaptiveImageCompression` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Adaptive Image Compression feature compresses JPEG images depending on the requesting network's performance, thus improving response time. The behavior specifies three performance tiers based on round-trip tests: 1 for excellent, 2 for good, and 3 for poor. It assigns separate performance criteria for mobile (cellular) and non-mobile networks, which the `compressMobile` and `compressStandard` options enable independently.

There are six `method` options, one for each tier and type of network. If the `method` is `COMPRESS`, choose from among the six corresponding `slider` options to specify a percentage. As an alternative to compression, setting the `method` to `STRIP` removes unnecessary application-generated metadata from the image. Setting the `method` to `BYPASS` serves clients the original image.

The behavior serves `ETags` headers as a data signature for each adapted variation. In case of error or if the file size increases, the behavior serves the original image file. Flushing the original image from the edge cache also flushes adapted variants. The behavior applies to the following image file extensions: `jpg`, `jpeg`, `jpe`, `jif`, `jff`, and `jfi`.

| Option                       | Type    | Description   | Requires   |
|------------------------------|---------|---|--|
| compressMobile               | boolean | Adapts images served over cellular mobile networks. |  |
| tier1MobileCompressionMethod | enum    | Specifies tier-1 behavior.                          | <code>compressMobile</code> is <code>true</code> |

| Option                         | Type           | Description  | <a href="#">Requires</a>                   |
|--------------------------------|----------------|--|--|
|                                |                | <b>Supported values:</b><br><div>BYPASS COMPRESS STRIP</div> |  |
| tier1MobileCompressionValue    | number (0-100) | Specifies the compression percentage.                        | tier1MobileCompressionMethod is COMPRESS   |
| tier2MobileCompressionMethod   | enum           | Specifies tier-2 cellular-network behavior.                  | compressMobile is true                     |
|                                |                | <b>Supported values:</b><br><div>BYPASS</div>                |  |
| tier2MobileCompressionValue    | number (0-100) | Specifies the compression percentage.                        | tier2MobileCompressionMethod is COMPRESS   |
| tier3MobileCompressionMethod   | enum           | Specifies tier-5 cellular-network behavior.                  | compressMobile is true                     |
|                                |                | <b>Supported values:</b><br><div>BYPASS</div>                |  |
| tier3MobileCompressionValue    | number (0-100) | Specifies the compression percentage.                        | tier3MobileCompressionMethod is COMPRESS   |
| compressStandard               | boolean        | Adapts images served over non-cellular networks.             |  |
| tier1StandardCompressionMethod | enum           | Specifies tier-1 non-cellular network behavior.              | compressStandard is true                   |
|                                |                | <b>Supported values:</b><br><div>BYPASS</div>                |  |
| tier1StandardCompressionValue  | number (0-100) | Specifies the compression percentage.                        | tier1StandardCompressionMethod is COMPRESS |
| tier2StandardCompressionMethod | enum           | Specifies tier-2 non-cellular network behavior.              | compressStandard is true                   |
|                                |                | <b>Supported values:</b><br><div>BYPASS</div>                |  |
| tier2StandardCompressionValue  | number (0-100) | Specifies the compression percentage.                        | tier2StandardCompressionMethod is COMPRESS |
| tier3StandardCompressionMethod | enum           | Specifies tier-5 non-cellular network behavior.              | compressStandard is true                   |
|                                |                | <b>Supported values:</b><br><div>BYPASS</div>                |  |
| tier3StandardCompressionValue  | number (0-100) | Specifies the compression percentage.                        | tier3StandardCompressionMethod is COMPRESS |

## advanced

- **Property Manager name:** [Advanced](#) 

- **Behavior version:** The v2019-07-25 rule format supports the advanced behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This specifies Akamai XML metadata. It can only be configured on your behalf by Akamai Professional Services.

| Option      | Type   | Description  |
|-------------|--------|--|
| description | string | Human-readable description of what the XML block does. |
| xml         | string | Akamai XML metadata.                                   |

## aggregatedReporting

- **Property Manager name:** [Aggregated Reporting](#)
- **Behavior version:** The v2019-07-25 rule format supports the aggregatedReporting behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Configure attributes for your custom aggregated reports. You can configure up to four attributes.

| Option           | Type                                       | Description  | Requires                  |
|------------------|--|--|---------------------------|
| enabled          | boolean                                    | Enables aggregated reporting.  |                           |
| report Name      | string                                     | The unique name of the aggregated report within the property. If you reconfigure any attributes or variables in the aggregated reporting behavior, update this field to a unique value to enable logging data in a new instance of the report. |                           |
| attributes Count | number (1-4)                               | Select the number of attributes by which your report is grouped. You can add up to four attributes.  |                           |
| attribute1       | string (allows <a href="#">variables</a> ) | Select a previously user-defined variable to be an attribute for the report. The values extracted for all attributes range from 0 to 20 characters.  |                           |
| attribute2       | string (allows <a href="#">variables</a> ) | Select a previously user-defined variable to be an attribute for the report. The values extracted for all attributes range from 0 to 20 characters.  | attributes Count $\geq$ 2 |
| attribute3       | string (allows <a href="#">variables</a> ) | Select a previously user-defined variable to be an attribute for the report. The values extracted for all attributes range from 0 to 20 characters.  | attributes Count $\geq$ 3 |
| attribute4       | string (allows <a href="#">variables</a> ) | Select a previously user-defined variable to be an attribute for the report. The values extracted for all attributes range from 0 to 20 characters.  | attributes Count is 4     |

## akamaizer

- **Property Manager name:** [Akamaizer](#)
- **Behavior version:** The v2019-07-25 rule format supports the akamaizer behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This allows you to run regular expression substitutions over web pages. To apply this behavior, you need to match on a `contentType`. Contact Akamai Professional Services for help configuring the Akamaizer. See also the `akamaizerTag` behavior.

| Option  | Type    | Description                     |
|---------|---------|---------------------------------|
| enabled | boolean | Enables the Akamaizer behavior. |

## akamaizerTag

- **Property Manager name:** [Akamaize Tag](#)
- **Behavior version:** The v2019-07-25 rule format supports the akamaizerTag behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This specifies HTML tags and replacement rules for hostnames used in conjunction with the `akamaizer` behavior. Contact Akamai Professional Services for help configuring the Akamaizer.

| Option                   | Type              | Description  | Requires             |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
|--------------------------|-------------------|--|----------------------|------|--------|------|------|-----------|------------|-----------|-----------|------|-----|--------|--------|-------------|---------|------------|--|
| match<br>Hostname        | string            | Specifies the hostname to match on as a Perl-compatible regular expression.  |                      |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
| replacement<br>Hostname  | string            | Specifies the replacement hostname for the tag to use.   |                      |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
| scope                    | enum              | Specifies the part of HTML content the <code>tagsAttribute</code> refers to.   |                      |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
|                          | ATTRIBUTE         | When <code>tagsAttribute</code> refers to a tag/attribute pair, the match only applies to the attribute.   |                      |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
|                          | URL_<br>ATTRIBUTE | The same as an attribute but applies when the attribute value is a URL. In that case, it converts to an absolute URL prior to substitution.  |                      |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
|                          | BLOCK             | Substitutes within the tag's contents, but not within any nested tags.   |                      |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
|                          | PAGE              | Ignores the <code>tagsAttribute</code> field and performs the substitution on the entire page.   |                      |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
| tagsAttribute            | enum              | Specifies the tag or tag/attribute combination to operate on.  | scope is<br>not PAGE |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
|                          |                   | <b>Supported values:</b> <table> <tr> <td>A</td><td>BASE</td><td>IFRAME</td><td>LINK</td></tr> <tr> <td>AREA</td><td>BASE_HREF</td><td>IFRAME_SRC</td><td>LINK_HREF</td></tr> <tr> <td>AREA_HREF</td><td>FORM</td><td>IMG</td><td>SCRIPT</td></tr> <tr> <td>A_HREF</td><td>FORM_ACTION</td><td>IMG_SRC</td><td>SCRIPT_SRC</td></tr> </table> | A                    | BASE | IFRAME | LINK | AREA | BASE_HREF | IFRAME_SRC | LINK_HREF | AREA_HREF | FORM | IMG | SCRIPT | A_HREF | FORM_ACTION | IMG_SRC | SCRIPT_SRC |  |
| A                        | BASE              | IFRAME   | LINK                 |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
| AREA                     | BASE_HREF         | IFRAME_SRC   | LINK_HREF            |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
| AREA_HREF                | FORM              | IMG  | SCRIPT               |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
| A_HREF                   | FORM_ACTION       | IMG_SRC  | SCRIPT_SRC           |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
| replaceAll               | boolean           | Replaces all matches when enabled, otherwise replaces only the first match.  |                      |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |
| includeTags<br>Attribute | boolean           | Whether to include the <code>tagsAttribute</code> value.   |                      |      |        |      |      |           |            |           |           |      |     |        |        |             |         |            |  |

## allHttpInCacheHierarchy

- **Property Manager name:** [Allow All Methods on Parent Servers](#)<sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `allHttpInCacheHierarchy` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allow all HTTP request methods to be used for the edge's parent servers, useful to implement features such as [Site Shield](#)<sup>↗</sup>, [SureRoute](#)<sup>↗</sup>, and Tiered Distribution. (See the [siteShield](#), [sureRoute](#), and [tieredDistribution](#) behaviors.)

| Option               | Type    | Description  |
|----------------------|---------|--|
| <code>enabled</code> | boolean | Enables all HTTP requests for parent servers in the cache hierarchy. |

## allowCloudletsOrigins

- **Property Manager name:** [Allow Conditional Origins](#)<sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `allowCloudletsOrigins` behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allows Cloudlets Origins to determine the criteria, separately from the Property Manager, under which alternate [origin](#) definitions are assigned.

This behavior needs to appear alone within its own rule. When enabled, it allows any [cloudletsOrigin](#) criteria within sub-rules to override the prevailing origin.

| Option                                    | Type    | Description   |
|---|---------|---|
| <code>enabled</code>                      | boolean | Allows you to assign custom origin definitions referenced in sub-rules by <a href="#">cloudletsOrigin</a> labels. If disabled, all sub-rules are ignored.   |
| <code>honorBase Directory</code>          | boolean | Prefixes any Cloudlet-generated origin path with a path defined by an Origin Base Path behavior. If no path is defined, it has no effect. If another Cloudlet policy already prepends the same Origin Base Path, the path is not duplicated.  |
| <code>purge Origin Query Parameter</code> | string  | When purging content from a Cloudlets Origin, this specifies a query parameter name whose value is the specific named origin to purge. Note that this only applies to content purge requests, for example when using the <a href="#">Content Control Utility API</a> <sup>↗</sup> . |



## allowDelete

- **Property Manager name:** [Allow DELETE](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the allowDelete behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allow HTTP requests using the DELETE method. By default, GET, HEAD, and OPTIONS requests are allowed, and all other methods result in a 403 error. Such content does not cache, and any DELETE requests pass to the origin. See also the [allowOptions](#) , [allowPatch](#) , [allowPost](#) , and [allowPut](#) behaviors.

| Option    | Type    | Description  |
|-----------|---------|--|
| enabled   | boolean | Allows DELETE requests. Content does <i>not</i> cache. |
| allowBody | boolean | Allows data in the body of the DELETE request.         |

## allowHTTPSCacheKeySharing

- **Property Manager name:** [HTTPS Cache Key Sharing](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the allowHTTPSCacheKeySharing behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

HTTPS cache key sharing allows HTTP requests to be served from an HTTPS cache.

| Option  | Type    | Description                      |
|---------|---------|----------------------------------|
| enabled | boolean | Enables HTTPS cache key sharing. |

## allowHTTPSDowngrade

- **Property Manager name:** [Protocol Downgrade \(HTTPS Downgrade to Origin\)](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the allowHTTPSDowngrade behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Passes HTTPS requests to origin as HTTP. This is useful when incorporating Standard TLS or Akamai's shared certificate delivery security with an origin that serves HTTP traffic.

| Option  | Type    | Description  |
|---------|---------|--|
| enabled | boolean | Downgrades to HTTP protocol for the origin server. |

## allowOptions

- **Property Manager name:** [Allow OPTIONS](#)
- **Behavior version:** The v2019-07-25 rule format supports the allowOptions behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

GET, HEAD, and OPTIONS requests are allowed by default. All other HTTP methods result in a 403 error. For full support of Cross-Origin Resource Sharing (CORS), you need to allow requests that use the OPTIONS method. If you're using the [corsSupport](#) behavior, do not disable OPTIONS requests. The response to an OPTIONS request is not cached, so the request always goes through the Akamai network to your origin, unless you use the [construct Response](#) behavior to send responses directly from the Akamai network. See also the [allowDelete](#), [allowPatch](#), [allowPost](#), and [allowPut](#) behaviors.

| Option  | Type    | Description   |
|---------|---------|---|
| enabled | boolean | Allows OPTIONS requests. Content does <i>not</i> cache. |

## allowPatch

- **Property Manager name:** [Allow PATCH](#)
- **Behavior version:** The v2019-07-25 rule format supports the allowPatch behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allow HTTP requests using the PATCH method. By default, GET, HEAD, and OPTIONS requests are allowed, and all other methods result in a 403 error. Such content does not cache, and any PATCH requests pass to the origin. See also the [allowDelete](#), [allowOptions](#), [allowPost](#), and [allowPut](#) behaviors.

| Option  | Type    | Description   |
|---------|---------|---|
| enabled | boolean | Allows PATCH requests. Content does <i>not</i> cache. |

## allowPost

- **Property Manager name:** [Allow POST](#)
- **Behavior version:** The v2019-07-25 rule format supports the `allowPost` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allow HTTP requests using the POST method. By default, GET, HEAD, and OPTIONS requests are allowed, and all other methods result in a 403 error. See also the [allowDelete](#) , [allowOptions](#) , [allowPatch](#) , and [allowPut](#) behaviors.

| Option                       | Type    | Description  |
|------------------------------|---------|--|
| enabled                      | boolean | Allows POST requests.  |
| allow Without Content Length | boolean | By default, POST requests also require a <code>Content-Length</code> header, or they result in a 411 error. With this option enabled with no specified <code>Content-Length</code> , the edge server relies on a <code>Transfer-Encoding</code> header to chunk the data. If neither header is present, it assumes the request has no body, and it adds a header with a <code>0</code> value to the forward request. |

## allowPut

- **Property Manager name:** [Allow PUT](#)
- **Behavior version:** The v2019-07-25 rule format supports the `allowPut` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allow HTTP requests using the PUT method. By default, GET, HEAD, and OPTIONS requests are allowed, and all other methods result in a 403 error. Such content does not cache, and any PUT requests pass to the origin. See also the [allowDelete](#) , [allowOptions](#) , [allowPatch](#) , and [allowPost](#) behaviors.

| Option  | Type    | Description   |
|---------|---------|---|
| enabled | boolean | Allows PUT requests. Content does <i>not</i> cache. |

## allowTransferEncoding

- **Property Manager name:** [Chunked Transfer Encoding](#)
- **Behavior version:** The v2019-07-25 rule format supports the `allowTransferEncoding` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Controls whether to allow or deny Chunked Transfer Encoding (CTE) requests to pass to your origin. If your origin supports CTE, you should enable this behavior. This behavior also protects against a known issue when pairing [http2](#) and [webdav](#) behaviors within the same rule tree, in which case it's required.

| Option               | Type    | Description                                |
|----------------------|---------|--|
| <code>enabled</code> | boolean | Allows Chunked Transfer Encoding requests. |

## apiPrioritization

- **Property Manager name:** [API Prioritization Cloudlet](#)<sup>\*)</sup>
- **Behavior version:** The `v2019-07-25` rule format supports the `apiPrioritization` behavior v2.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables the API Prioritization Cloudlet, which maintains continuity in user experience by serving an alternate static response when load is too high. You can configure rules using either the Cloudlets Policy Manager application or the [Cloudlets API](#)<sup>\*)</sup>. Use this feature serve static API content, such as fallback JSON data. To serve non-API HTML content, use the [visitorPrioritization](#) behavior.

| Option                                     | Type    | Description   | <a href="#">Requires</a>                                 |
|--|---------|---|--|
| <code>enabled</code>                       | boolean | Activates the API Prioritization feature.   |  |
| <code>cloudletPolicy</code>                | object  | Identifies the Cloudlet policy.   |  |
| <code>cloudletPolicy.id</code>             | number  | Identifies the Cloudlet.  |  |
| <code>cloudletPolicy.name</code>           | string  | The Cloudlet's descriptive name.  |  |
| <code>label</code>                         | string  | A label to distinguish this API Prioritization policy from any others in the same property.   |  |
| <code>useThrottledCpCode</code>            | boolean | Specifies whether to apply an alternative CP code for requests served the alternate response. |  |
| <code>throttledCpCode</code>               | object  | Specifies the CP code as an object.   | <code>useThrottledCpCode</code> is <code>true</code>     |
| <code>throttledCpCode.description</code>   | string  | Additional description for the CP code.   |  |
| <code>throttledCpCode.id</code>            | integer | Unique identifier for each CP code.   |  |
| <code>throttledCpCode.name</code>          | string  | The name of the CP code.  |  |
| <code>throttledCpCode.products</code>      | array   | The set of products the CP code is assigned to.   |  |
| <code>useThrottledStatusCode</code>        | boolean | Allows you to assign a specific HTTP response code to a throttled request.                    |  |
| <code>throttledStatusCode</code>           | number  | Specifies the HTTP response code for requests that receive the alternate response.            | <code>useThrottledStatusCode</code> is <code>true</code> |
| <code>netStorage</code>                    | object  | Specify the NetStorage domain that contains the alternate response.                           |  |
| <code>netStorage.cpCodeList</code>         | array   | A set of CP codes that apply to this storage group.   |  |
| <code>netStorage.downloadDomainName</code> | string  | Domain name from which content can be downloaded.   |  |

| Option                      | Type          | Description  | Requires |
|-----------------------------|---------------|--|----------|
| netStorage.id               | number        | Unique identifier for the storage group.   |          |
| netStorage.name             | string        | Name of the storage group.   |          |
| netStorage.uploadDomainName | string        | Domain name used to upload content.  |          |
| netStoragePath              | string        | Specify the full NetStorage path for the alternate response, including trailing file name. |          |
| alternateResponseCacheTtl   | number (5-30) | Specifies the alternate response's time to live in the cache, 5 minutes by default.        |          |

## applicationLoadBalancer

- **Property Manager name:** [Application Load Balancer Cloudlet](#)<sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the applicationLoadBalancer behavior v1.9.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables the Application Load Balancer Cloudlet, which automates load balancing based on configurable criteria. To configure this behavior, use either the Cloudlets Policy Manager or the [Cloudlets API](#)<sup>↗</sup> to set up a policy.

| Option                   | Type                     | Description  | Requires                           |
|--------------------------|--------------------------|--|------------------------------------|
| enabled                  | boolean                  | Activates the Application Load Balancer Cloudlet.  |                                    |
| cloudletPolicy           | object                   | Identifies the Cloudlet policy.  |                                    |
| cloudletPolicy.id        | number                   | Identifies the Cloudlet.   |                                    |
| cloudletPolicy.name      | string                   | The Cloudlet's descriptive name.   |                                    |
| label                    | string                   | A label to distinguish this Application Load Balancer policy from any others within the same property.                     |                                    |
| stickinessCookieType     | enum                     | Determines how a cookie persistently associates the client with a load-balanced origin.                                    |                                    |
|                          | NONE                     | Dynamically reassigns different load-balanced origins for each request.  |                                    |
|                          | NEVER                    | Preserves the cookie indefinitely.   |                                    |
|                          | ON_BROWSER_CLOSE         | Limit the cookie duration to browser sessions.   |                                    |
|                          | FIXED_DATE               | Specify a specific time for when the cookie expires.   |                                    |
|                          | DURATION                 | Specify a delay for when the cookie expires.   |                                    |
|                          | ORIGIN_SESSION           | Limit the cookie duration to when the ORIGIN_SESSION terminates. (After the cookie expires, the cookie type re-evaluates.) |                                    |
| stickinessExpirationDate | string (epoch timestamp) | Specifies when the cookie expires.   | stickinessCookieType is FIXED_DATE |

| Option                                       | Type              | Description  | <a href="#">Requires</a>  |
|--|-------------------|--|---|
| stickiness<br>Duration                       | string (duration) | Sets how long it is before the cookie expires.   | stickinessCookieType is DURATION  |
| stickiness<br>Refresh                        | boolean           | Extends the duration of the cookie with each new request. When enabled, the DURATION thus specifies the latency between requests that would cause the cookie to expire.  | stickinessCookieType is DURATION  |
| originCookie<br>Name                         | string            | Specifies the name for your session cookie.  | stickinessCookieType is ORIGIN_SESSION  |
| specifyStickiness<br>CookieDomain            | boolean           | Specifies whether to use a cookie domain with the stickiness cookie, to tell the browser to which domain to send the cookie.   | stickinessCookieType is either: ON_BROWSER_CLOSE , FIXED_DATE , DURATION , NEVER , ORIGIN_SESSION |
| stickinessCookie<br>Domain                   | string            | Specifies the domain to track the stickiness cookie.   | specifyStickinessCookieDomain is true   |
| stickinessCookie<br>AutomaticSalt            | boolean           | Sets whether to assign a salt value automatically to the cookie to prevent manipulation by the user. You should not enable this if sharing the population cookie across more than one property.                | stickinessCookieType is either: ON_BROWSER_CLOSE , FIXED_DATE , DURATION , NEVER , ORIGIN_SESSION |
| stickinessCookie<br>Salt                     | string            | Specifies the stickiness cookie's salt value. Use this option to share the cookie across many properties.  | stickinessCookieAutomaticSalt is false  |
| stickinessCookie<br>SetHttpOnlyFlag          | boolean           | Ensures the cookie is transmitted only over HTTP.  | stickinessCookieType is either: ON_BROWSER_CLOSE , FIXED_DATE , DURATION , NEVER , ORIGIN_SESSION |
| stickinessCookie<br>SetSecureFlag            | boolean           | Deploys the stickiness cookie as secure.   | stickinessCookieType is either: ON_BROWSER_CLOSE , FIXED_DATE , DURATION , NEVER , ORIGIN_SESSION |
| allDownNet<br>Storage                        | object            | Specifies a NetStorage account for a static maintenance page as a fallback when no origins are available.  |   |
| allDownNet<br>Storage.cpCode<br>List         | array             | A set of CP codes that apply to this storage group.  |   |
| allDownNet<br>Storage.download<br>DomainName | string            | Domain name from which content can be downloaded.  |   |
| allDownNet<br>Storage.id                     | number            | Unique identifier for the storage group.   |   |
| allDownNet<br>Storage.name                   | string            | Name of the storage group.   |   |
| allDownNet<br>Storage.upload<br>DomainName   | string            | Domain name used to upload content.  |   |
| allDownNet<br>StorageFile                    | string            | Specifies the fallback maintenance page's filename, expressed as a full path from the root of the NetStorage server.   |   |
| allDownStatus<br>Code                        | string            | Specifies the HTTP response code when all load-balancing origins are unavailable.  |   |
| failoverStatus<br>Codes                      | string array      | Specifies a set of HTTP status codes that signal a failure on the origin, in which case the cookie that binds the client to that origin is invalidated and the client is rerouted to another available origin. |   |
| failoverMode                                 | enum              | Determines what to do if an origin fails.  |   |
|  | AUTOMATIC         | Automatically determines which origin in the policy to try next.   |   |

| Option                             | Type         | Description  | Requires                                   |
|------------------------------------|--------------|--|--|
|                                    | MANUAL       | You define a sequence of failover origins. (If failover runs out of origins, requests are sent to NetStorage.) |  |
|                                    | DISABLED     | Turns off failover, but maintains origin stickiness even when the origin goes down.                            |  |
| failoverOrigin Map                 | object array | Specifies a fixed set of failover mapping rules.   | failoverMode is MANUAL                     |
| failoverOrigin Map[].fromOrigin Id | string       | Specifies the origin whose failure triggers the mapping rule.  |  |
| failoverOrigin Map[].toOriginIds   | string array | Requests stuck to the fromOriginId origin retry for each alternate origin toOriginIds , until one succeeds.    |  |
| failoverAttempts Threshold         | number       | Sets the number of failed requests that would trigger the failover process.                                    | failoverMode is either: MANUAL , AUTOMATIC |
| allowCache Prefresh                | boolean      | Allows the cache to prefetch. Only appropriate if all origins serve the same content for the same URL.         |  |

## audienceSegmentation


- **Property Manager name:** [Audience Segmentation Cloudlet](#)
- **Behavior version:** The v2019-07-25 rule format supports the audienceSegmentation behavior v2.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allows you to divide your users into different segments based on a persistent cookie. You can configure rules using either the Cloudlets Policy Manager application or the [Cloudlets API](#).

| Option                  | Type    | Description   | Requires |
|-------------------------|---------|---|----------|
| enabled                 | boolean | Enables the Audience Segmentation cloudlet feature.   |          |
| cloudlet Policy         | object  | Identifies the Cloudlet policy.   |          |
| cloudlet Policy.id      | number  | Identifies the Cloudlet.  |          |
| cloudlet Policy.name    | string  | The Cloudlet's descriptive name.  |          |
| label                   | string  | Specifies a suffix to append to the cookie name. This helps distinguish this audience segmentation policy from any others within the same property. |          |
| segment Tracking Method | enum    | Specifies the method to pass segment information to the origin. The Cloudlet passes the rule applied to a given request location.                   |          |
|                         |         | <b>Supported values:</b><br>IN_COOKIE_HEADER  |          |

| Option                          | Type              | Description  | Requires                                  |
|---------------------------------|-------------------|--|---|
| segmentTrackingQueryParam       | string            | This query parameter specifies the name of the segmentation rule.  | segmentTrackingMethod is IN_QUERY_PARAM   |
| segmentTrackingCookieName       | string            | This cookie name specifies the name of the segmentation rule.  | segmentTrackingMethod is IN_COOKIE_HEADER |
| segmentTrackingCustomHeader     | string            | This custom HTTP header specifies the name of the segmentation rule.   | segmentTrackingMethod is IN_CUSTOM_HEADER |
| populationCookieType            | enum              | Specifies when the segmentation cookie expires.  |   |
|                                 | NEVER             | Never expire.  |   |
|                                 | ON_BROWSER_CLOSE  | Expire at end of browser session.  |   |
|                                 | DURATION          | Specify a delay.   |   |
| populationDuration              | string (duration) | Specifies the lifetime of the segmentation cookie.   | populationCookieType is DURATION          |
| populationRefresh               | boolean           | If disabled, sets the expiration time only if the cookie is not yet present in the request.  | populationCookieType is DURATION          |
| specifyPopulationCookieDomain   | boolean           | Whether to specify a cookie domain with the population cookie. It tells the browser to which domain to send the cookie.  |   |
| populationCookieDomain          | string            | Specifies the domain to track the population cookie.   | specifyPopulationCookieDomain is true     |
| populationCookieAutomaticSalt   | boolean           | Whether to assign a <i>salt</i> value automatically to the cookie to prevent manipulation by the user. You should not enable if sharing the population cookie across more than one property. |   |
| populationCookieSalt            | string            | Specifies the cookie's salt value. Use this option to share the cookie across many properties.   | populationCookieAutomaticSalt is false    |
| populationCookieIncludeRuleName | boolean           | When enabled, includes in the session cookie the name of the rule in which this behavior appears.  |   |

## autoDomainValidation

- **Property Manager name:** [Auto Domain Validation](#) 
- **Behavior version:** The v2019-07-25 rule format supports the autoDomainValidation behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)



This behavior allows standard TLS domain validated certificates to renew automatically. Apply it after using the [Certificate Provisioning System](#) to request a certificate for a hostname. To provision certificates programmatically, see the [Certificate Provisioning System API](#).

This behavior does not affect hostnames that use enhanced TLS certificates.

This behavior object does not support any options. Specifying the behavior enables it.

## baseDirectory

- **Property Manager name:** [Origin Base Path](#)
- **Behavior version:** The v2019-07-25 rule format supports the `baseDirectory` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Prefix URLs sent to the origin with a base path.

For example, with an origin of `example.com`, setting the `value` to `/images` sets the origin's base path to `example.com/images`. Any request for a `my_pics/home.jpg` file resolves on the origin server to `example.com/images/my_pics/home.jpg`.

Note that changing the origin's base path also causes a change to the cache key. Until that resolves, it may cause a traffic spike to your origin server.

| Option             | Type  | Description  |
|--------------------|---|--|
| <code>value</code> | string<br>(allows <a href="#">variables</a> ) | Specifies the base path of content on your origin server. The value needs to begin and end with a slash ( / ) character, for example <code>/parent/child/</code> . |

## bossBeaconing

- **Property Manager name:** [Diagnostic data beacons \(Ex. BOSS\)](#)
- **Behavior version:** The v2019-07-25 rule format supports the `bossBeaconing` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

Triggers diagnostic data beacons for use with BOSS, Akamai's monitoring and diagnostics system.

| Option               | Type    | Description  |
|----------------------|---------|--|
| <code>enabled</code> | boolean | Enable diagnostic data beacons.  |
| <code>cpcodes</code> | string  | The space-separated list of CP codes that trigger the beacons. You need to specify the same set of CP codes within BOSS. |

| Option                         | Type                          | Description   |
|--------------------------------|-------------------------------|---|
| requestType                    | enum                          | Specify when to trigger a beacon.   |
|                                | EDGE                          | For edge requests only.   |
|                                | EDGE_MIDGRESS                 | Both end and midgress requests.   |
| forwardType                    | enum                          | Specify when to trigger a beacon.   |
|                                | MIDGRESS                      | For internal midgress forwards only.  |
|                                | ORIGIN                        | For origin forwards only.   |
|                                | MIDGRESS_ORIGIN               | Both.   |
| sampling Frequency             | enum                          | Specifies a sampling frequency or disables beacons.   |
|                                | SAMPLING_FREQ_0_0             | Disables beacons altogether.  |
|                                | SAMPLING_FREQ_0_1             | Specifies a sampling frequency.   |
| conditional Sampling Frequency | enum                          | Specifies a conditional sampling frequency or disables beacons.   |
|                                | CONDITIONAL_SAMPLING_FREQ_0_0 | Disables beacons altogether.  |
|                                | CONDITIONAL_SAMPLING_FREQ_0_1 | Specifies a sampling frequency.   |
|                                | CONDITIONAL_SAMPLING_FREQ_0_2 | Specifies a sampling frequency.   |
|                                | CONDITIONAL_SAMPLING_FREQ_0_3 | Specifies a sampling frequency.   |
| conditional HTTPStatus         | string array                  | Specifies the set of response status codes or ranges that trigger the beacon.   |
|                                |                               | <b>Supported values:</b><br><div>0xx      302      304      3xx      401      403      404      408</div>   |
| conditionalError Pattern       | string                        | A space-separated set of error patterns that trigger beacons to conditional feeds. Each pattern can include wildcards, such as *CONNECT* *DENIED* . |

## breakConnection

- **Property Manager name:** [Break Forward Connection](#) <sup>✎</sup>
- **Behavior version:** The v2019-07-25 rule format supports the breakConnection behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior simulates an origin connection problem, typically to test an accompanying [failAction](#) policy.

| Option  | Type    | Description                            |
|---------|---------|--|
| enabled | boolean | Enables the break connection behavior. |

## broccoli

- **Property Manager name:** [Brotli Support](#)
- **Behavior version:** The v2019-07-25 rule format supports the broccoli behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Applies Brotli compression, converting your origin content to cache on edge servers.

| Option  | Type    | Description                 |
|---------|---------|-----------------------------|
| enabled | boolean | Enables Brotli compression. |

## cacheError

- **Property Manager name:** [Cache HTTP Error Responses](#)
- **Behavior version:** The v2019-07-25 rule format supports the cacheError behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Caches the origin's error responses to decrease server load. Applies for 10 seconds by default to the following HTTP codes: 204 , 305 , 400 , 404 , 405 , 501 , 502 , 503 , 504 , and 505 .

| Option            | Type                 | Description   |
|-------------------|----------------------|---|
| enabled           | boolean              | Activates the error-caching behavior.   |
| ttd               | string<br>(duration) | Overrides the default caching duration of 10s . Note that if set to 0 , it is equivalent to no-cache , which forces revalidation and may cause a traffic spike. This can be counterproductive when, for example, the origin is producing an error code of 500 . |
| preserve<br>Stale | boolean              | When enabled, the edge server preserves stale cached objects when the origin returns 400 , 500 , 502 , 503 , and 504 error codes. This avoids re-fetching and re-caching content after transient errors.  |

## cacheld

- **Property Manager name:** [Cache ID Modification](#)
- **Behavior version:** The v2019-07-25 rule format supports the cacheld behavior v1.2.

- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Controls which query parameters, headers, and cookies are included in or excluded from the cache key identifier.

Note that this behavior executes differently than usual within rule trees. Applying a set of `cacheid` behaviors within the same rule results in a system of forming cache keys that applies independently to the rule's content. If any `cacheid` behaviors are present in a rule, any others specified in parent rules or prior executing sibling rules no longer apply. Otherwise for any rule that lacks a `cacheid` behavior, the set of behaviors specified in an ancestor or prior sibling rule determines how to form cache keys for that content.

| Option                     | Type                                     | Description   | <a href="#">Requires</a>   |
|----------------------------|--|---|--|
| <code>rule</code>          | enum                                     | Specifies how to modify the cache ID.   |  |
|                            | <code>INCLUDE_QUERY_PARAMS</code>        | Includes the specified set of query parameters when forming a cache ID.   |  |
|                            | <code>INCLUDE_COOKIES</code>             | Includes specified cookies in the cache ID.   |  |
|                            | <code>INCLUDE_HEADERS</code>             | Includes specified HTTP headers in the cache ID.  |  |
|                            | <code>EXCLUDE_QUERY_PARAMS</code>        | Excludes the specified set of query parameters when forming a cache ID.   |  |
|                            | <code>INCLUDE_ALL_QUERY_PARAMS</code>    | Includes all query parameters when forming a cache ID.  |  |
|                            | <code>INCLUDE_VARIABLE</code>            | Includes a specific <a href="#">user variable</a> in the cache ID.  |  |
|                            | <code>INCLUDE_URL</code>                 | Includes the full URL, the same as the default without the <code>cacheid</code> behavior.   |  |
| <code>include Value</code> | boolean                                  | Includes the value of the specified elements in the cache ID. Otherwise only their names are included.  | <code>rule</code> is either: <code>INCLUDE_COOKIES</code> , <code>INCLUDE_QUERY_PARAMS</code> , <code>INCLUDE_HEADERS</code>                                     |
| <code>optional</code>      | boolean                                  | Requires the behavior's specified elements to be present for content to cache. When disabled, requests that lack the specified elements are still cached. | <code>rule</code> is either: <code>INCLUDE_COOKIES</code> , <code>INCLUDE_QUERY_PARAMS</code> , <code>INCLUDE_HEADERS</code> , <code>EXCLUDE_QUERY_PARAMS</code> |
| <code>elements</code>      | string array                             | Specifies the names of the query parameters, cookies, or headers to include or exclude from the cache ID.   | <code>rule</code> is either: <code>INCLUDE_COOKIES</code> , <code>INCLUDE_QUERY_PARAMS</code> , <code>INCLUDE_HEADERS</code> , <code>EXCLUDE_QUERY_PARAMS</code> |
| <code>variable Name</code> | string ( <a href="#">variable name</a> ) | Specifies the name of the variable you want to include in the cache key.  | <code>rule</code> is <code>INCLUDE_VARIABLE</code>   |

## cacheKeyIgnoreCase

- **Property Manager name:** [Ignore Case In Cache Key](#)<sup>↗</sup>
- **Behavior version:** The `v2019-07-25` rule format supports the `cacheKeyIgnoreCase` behavior v1.2.

- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

By default, cache keys are generated under the assumption that path and filename components are case-sensitive, so that `File.html` and `file.html` use separate cache keys. Enabling this behavior forces URL components whose case varies to resolve to the same cache key. Enable this behavior if your origin server is already case-insensitive, such as those based on Microsoft IIS.

With this behavior enabled, make sure any child rules do not match case-sensitive path components, or you may apply different settings to the same cached object.

Note that if already enabled, disabling this behavior potentially results in new sets of cache keys. Until these new caches are built, your origin server may experience traffic spikes as requests pass through. It may also result in *cache pollution*, excess cache space taken up with redundant content.

If you're using [NetStorage](#) in conjunction with this behavior, enable its **Force Case** option to match it, and make sure you name the original files consistently as either upper- or lowercase.

| Option  | Type    | Description                           |
|---------|---------|---------------------------------------|
| enabled | boolean | Ignores case when forming cache keys. |

## cacheKeyQueryParams

- **Property Manager name:** [Cache Key Query Parameters](#)
- **Behavior version:** The v2019-07-25 rule format supports the `cacheKeyQueryParams` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

By default, cache keys are formed as URLs with full query strings. This behavior allows you to consolidate cached objects based on specified sets of query parameters.

Note also that whenever you apply behavior that generates new cache keys, your origin server may experience traffic spikes before the new cache starts to serve out.

| Option   | Type                                      | Description  | <a href="#">Requires</a> |
|----------|---|--|--------------------------|
| behavior | enum                                      | Configures how sets of query string parameters translate to cache keys. Be careful not to ignore any parameters that result in substantially different content, as it is <i>not</i> reflected in the cached object.        |                          |
|          | INCLUDE_<br>ALL_<br>PRESERVE_<br>ORDER    | Forms a separate key for the entire set of query parameters, but sensitive to the order in which they appear. (For example, <code>?q=akamai&amp;state=ma</code> and <code>?state=ma&amp;q=akamai</code> cache separately.) |                          |
|          | INCLUDE_<br>ALL_<br>ALPHABETIZE_<br>ORDER | Forms keys for the entire set of parameters, but the order doesn't matter. The examples above both use the same cache key.   |                          |
|          | IGNORE_ALL                                | Causes query string parameters to be ignored when forming cache keys.  |                          |
|          | INCLUDE                                   | Include the sequence of values in the <code>parameters</code> field.   |                          |

| Option                  | Type         | Description   | Requires                             |
|-------------------------|--------------|---|--------------------------------------|
|                         | IGNORE       | Include all but the sequence of values in the <code>parameters</code> field.  |                                      |
| <code>parameters</code> | string array | Specifies the set of parameter field names to include in or exclude from the cache key. By default, these match the field names as string prefixes. | behavior is either: INCLUDE , IGNORE |
| <code>exactMatch</code> | boolean      | When enabled, <code>parameters</code> needs to match exactly. Keep disabled to match string prefixes.   | behavior is either: INCLUDE , IGNORE |

## cacheKeyRewrite

- **Property Manager name:** [Cache Key Path Rewrite \(Beta\)](#) <sup>🔗</sup>
- **Behavior version:** The `v2019-07-25` rule format supports the `cacheKeyRewrite` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This behavior rewrites a default cache key's path. Contact Akamai Professional Services for help configuring it.

| Option                | Type   | Description  |
|-----------------------|--------|--|
| <code>purgeKey</code> | string | Specifies the new cache key path as an alphanumeric value. |

## cachePost

- **Property Manager name:** [Cache POST Responses](#) <sup>🔗</sup>
- **Behavior version:** The `v2019-07-25` rule format supports the `cachePost` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

By default, POST requests are passed to the origin. This behavior overrides the default, and allows you to cache POST responses.

| Option                | Type    | Description   |
|-----------------------|---------|---|
| <code>enabled</code>  | boolean | Enables caching of POST responses.                                      |
| <code>use Body</code> | enum    | Define how and whether to use the POST message body as a cache key.     |
|                       | IGNORE  | Uses only the URL to cache the response.                                |
|                       | MD5     | Adds a string digest of the data as a query parameter to the cache URL. |

| Option | Type  | Description  |
|--------|-------|--|
|        | QUERY | Adds the raw request body as a query parameter to the cache key, but only if the POST request's <code>Content-Type</code> is <code>application/x-www-form-urlencoded</code> . (Use this in conjunction with <a href="#">cached</a> to define relevant query parameters.) |

## cacheRedirect

- **Property Manager name:** [Cache HTTP Redirects](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `cacheRedirect` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Caches HTTP 302 redirect responses. By default, Akamai edge servers cache HTTP 302 redirects depending on their `Cache-Control` or `Expires` headers. Enabling this behavior instructs edge servers to cache 302 redirects the same as they would for HTTP 200 responses.

| Option               | Type    | Description                            |
|----------------------|---------|--|
| <code>enabled</code> | boolean | Enables the redirect caching behavior. |

## caching

- **Property Manager name:** [Caching](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `caching` behavior v1.5.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Control content caching on edge servers: whether or not to cache, whether to honor the origin's caching headers, and for how long to cache. Note that any `NO_STORE` or `BYPASS_CACHE` HTTP headers set on the origin's content overrides this behavior.

| Option                | Type                      | Description                                     | <a href="#">Requires</a> |
|-----------------------|---------------------------|---|--------------------------|
| <code>behavior</code> | enum                      | Specify the caching option.                     |                          |
|                       | <code>MAX_AGE</code>      | Honor the origin's <code>MAX_AGE</code> header. |                          |
|                       | <code>NO_STORE</code>     | Clears the cache and serves from the origin.    |                          |
|                       | <code>BYPASS_CACHE</code> | Retains the cache but serves from the origin.   |                          |

| Option          | Type                      | Description  | <a href="#">Requires</a>  |
|-----------------|---------------------------|--|---|
|                 | CACHE_CONTROL_AND_EXPIRES | Honor the origin's CACHE_CONTROL or EXPIRES header, whichever comes last. This adds support for the s-maxage response directive specified in <a href="#">RFC 7234</a> . Use this alternative value to instruct a downstream CDN how long to cache content.                                 |   |
|                 | CACHE_CONTROL             | Honor the origin's CACHE_CONTROL header. This adds support for the s-maxage response directive specified in <a href="#">RFC 7234</a> . Use this alternative value to instruct a downstream CDN how long to cache content.  |   |
|                 | EXPIRES                   | Honor the origin's EXPIRES header.   |   |
| must Revalidate | boolean                   | Determines what to do once the cached content has expired, by which time the Akamai platform should have re-fetched and validated content from the origin. If enabled, only allows the re-fetched content to be served. If disabled, may serve stale content if the origin is unavailable. | behavior is either: CACHE_CONTROL_AND_EXPIRES , CACHE_CONTROL , EXPIRES , MAX_AGE |
| ttl             | string (duration)         | The maximum time content may remain cached. Setting the value to 0 is the same as setting a no-cache header, which forces content to revalidate.   | behavior is MAX_AGE   |
| defaultTtl      | string (duration)         | Set the MAX_AGE header for the cached content.   | behavior is either: CACHE_CONTROL_AND_EXPIRES , CACHE_CONTROL , EXPIRES           |

## centralAuthorization

- **Property Manager name:** [Centralized Authorization](#)\*
- **Behavior version:** The v2019-07-25 rule format supports the centralAuthorization behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Forward client requests to the origin server for authorization, along with optional Set-Cookie headers, useful when you need to maintain tight access control. The edge server forwards an If-Modified-Since header, to which the origin needs to respond with a 304 (Not-Modified) HTTP status when authorization succeeds. If so, the edge server responds to the client with the cached object, since it does not need to be re-acquired from the origin.

| Option  | Type    | Description                                     |
|---------|---------|---|
| enabled | boolean | Enables the centralized authorization behavior. |

## chaseRedirects

- **Property Manager name:** [Chase Redirects](#)\*
- **Behavior version:** The v2019-07-25 rule format supports the chaseRedirects behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)



- **Access:** [Read-write](#)

Controls whether the edge server chases any redirects served from the origin.

| Option   | Type    | Description   |
|----------|---------|---|
| enabled  | boolean | Allows edge servers to chase redirects.   |
| limit    | string  | Specifies, as a string, the maximum number of redirects to follow.  |
| serve404 | boolean | Once the redirect <code>limit</code> is reached, enabling this option serves an HTTP <code>404</code> (Not Found) error instead of the last redirect. |

## clientCharacteristics

- **Property Manager name:** [Client Characteristics](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `clientCharacteristics` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies characteristics of the client ecosystem. Akamai uses this information to optimize your metadata configuration, which may result in better end-user performance.

See also [originCharacteristics](#) and various product-specific behaviors whose names are prefixed *content Characteristics*.

| Option  | Type                | Description                                       |
|---------|---------------------|---|
| country | enum                | Specifies the client request's geographic region. |
|         | GLOBAL              | Global.   |
|         | GLOBAL_US_CENTRIC   | Regional.   |
|         | GLOBAL_EU_CENTRIC   | Regional.   |
|         | GLOBAL_ASIA_CENTRIC | Regional.   |
|         | EUROPE              | Europe.   |
|         | NORTH_AMERICA       | North America.                                    |
|         | SOUTH_AMERICA       | South America.                                    |
|         | NORDICS             | Northern Europe.                                  |
|         | ASIA_PACIFIC        | Asia and Pacific Islands.                         |
|         | AUSTRALIA           | Australia.  |
|         | GERMANY             | Germany.  |
|         | INDIA               | India.  |
|         | ITALY               | Italy.  |
|         | JAPAN               | Japan.  |
|         | TAIWAN              | Taiwan.   |

| Option | Type           | Description              |
|--------|----------------|--------------------------|
|        | UNITED_KINGDOM | United Kingdom.          |
|        | OTHER          | A fallback value.        |
|        | UNKNOWN        | Defer any optimizations. |

## cloudWrapper

- **Property Manager name:** [Cloud Wrapper](#)
- **Behavior version:** The v2019-07-25 rule format supports the cloudWrapper behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

[Cloud Wrapper](#) maximizes origin offload for large libraries of video, game, and software downloads by optimizing data caches in regions nearest to your origin. You can't use this behavior in conjunction with [sureRoute](#) or [tiered Distribution](#).

| Option   | Type    | Description   |
|----------|---------|---|
| enabled  | boolean | Enables Cloud Wrapper behavior.   |
| location | string  | The location you want to distribute your Cloud Wrapper cache space to. This behavior allows all locations configured in your Cloud Wrapper configuration. |

## constructResponse

- **Property Manager name:** [Construct Response](#)
- **Behavior version:** The v2019-07-25 rule format supports the constructResponse behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior constructs an HTTP response, complete with HTTP status code and body, to serve from the edge independently of your origin. It supports all request methods except for POST.

| Option       | Type                                       | Description   |
|--------------|--|---|
| enabled      | boolean                                    | Serves the custom response.   |
| body         | string (allows <a href="#">variables</a> ) | HTML response of up to 2000 characters to send to the end-user client.                |
| responseCode | enum                                       | The HTTP response code to send to the end-user client.                                |
|              |  | <b>Supported values:</b><br>200      401      403      404      405      417      500 |

| Option        | Type    | Description   |
|---------------|---------|---|
| forceEviction | boolean | Removes the underlying object from the cache, since it is not being served. |

## contentCharacteristics

- **Property Manager name:** [Content Characteristics](#) <sup>+</sup>
- **Behavior version:** The v2019-07-25 rule format supports the contentCharacteristics behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies characteristics of the delivered content. Akamai uses this information to optimize your metadata configuration, which may result in better origin offload and end-user performance.

Along with other behaviors whose names are prefixed *contentCharacteristics*, this behavior is customized for a specific product set. Use PAPI's [List available behaviors](#) operation to determine the set available to you. See also the related [clientCharacteristics](#) and [originCharacteristics](#) behaviors.

| Option                 | Type             | Description   |
|------------------------|------------------|---|
| objectSize             | enum             | Optimize based on the size of the object retrieved from the origin. |
|                        | LESS_THAN_1MB    | Less than 1Mb.  |
|                        | ONE_MB_TO_TEN_MB | 1-10 Mb.  |
|                        | TEN_MB_TO_100_MB | 10-100 Mb.  |
|                        | OTHER            | A fallback value.   |
|                        | UNKNOWN          | Defer this optimization.  |
| popularityDistribution | enum             | Optimize based on the content's expected popularity.                |
|                        | LONG_TAIL        | A low volume of requests over a long period.                        |
|                        | ALL_POPULAR      | A high volume of requests over a short period.                      |
|                        | OTHER            | A fallback value.   |
|                        | UNKNOWN          | Defer this optimization.  |
| catalogSize            | enum             | Optimize based on the total size of the content library delivered.  |
|                        | SMALL            | Under 100GB.  |
|                        | MEDIUM           | 100GB-1TB.  |
|                        | LARGE            | 1TB-100TB.  |
|                        | EXTRA_LARGE      | More than 100TB.  |
|                        | OTHER            | A fallback value.   |
|                        | UNKNOWN          | Defer this optimization.  |
| contentType            | enum             | Optimize based on the type of content.                              |
|                        | USER_GENERATED   | Generally, user-generated media.                                    |
|                        | WEB_OBJECTS      | Generally, media delivered for websites.                            |

| Option | Type          | Description  |
|--------|---------------|--|
|        | SOFTWARE      | Software.  |
|        | IMAGES        | Images.  |
|        | OTHER_OBJECTS | Content that doesn't fall under any of these categories. |
|        | UNKNOWN       | Defer this optimization.                                 |

## contentCharacteristicsAMD

- **Property Manager name:** [Content Characteristics](#) <sup>†</sup>
- **Behavior version:** The v2019-07-25 rule format supports the contentCharacteristicsAMD behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies characteristics of the delivered content. Akamai uses this information to optimize your metadata configuration, which may result in better origin offload and end-user performance.

Along with other behaviors whose names are prefixed *contentCharacteristics*, this behavior is customized for a specific product set. Use PAPI's [List available behaviors](#) operation to determine the set available to you. See also the related [clientCharacteristics](#) and [originCharacteristics](#) behaviors.

| Option                 | Type        | Description  | <a href="#">Requires</a> |
|------------------------|-------------|--|--------------------------|
| catalogSize            | enum        | Optimize based on the total size of the content library delivered. |                          |
|                        | SMALL       | Less than 100Gb.   |                          |
|                        | MEDIUM      | 100Gb-1Tb.   |                          |
|                        | LARGE       | 1-100Tb.   |                          |
|                        | EXTRA_LARGE | More than 100Tb.   |                          |
|                        | OTHER       | Customize the value.   |                          |
|                        | UNKNOWN     | Defer this optimization.   |                          |
| contentType            | enum        | Optimize based on the quality of media content.                    |                          |
|                        | SD          | Standard definition.   |                          |
|                        | HD          | High definition.   |                          |
|                        | ULTRA_HD    | Ultra high definition.   |                          |
|                        | OTHER       | More than one level of quality.                                    |                          |
|                        | UNKNOWN     | Defer this optimization.   |                          |
| popularityDistribution | enum        | Optimize based on the content's expected popularity.               |                          |
|                        | LONG_TAIL   | A low volume of requests over a long period.                       |                          |
|                        | ALL_POPULAR | A high volume of requests over a short period.                     |                          |
|                        | OTHER       | Customize the value.   |                          |

| Option                   | Type                 | Description   | Requires                    |
|--------------------------|----------------------|---|-----------------------------|
|                          | UNKNOWN              | Defer this optimization.  |                             |
| hls                      | boolean              | Enable delivery of HLS media.                                     |                             |
| segmentDurationHLS       | enum                 | Specifies the duration of individual segments.                    | hls is true                 |
|                          | SEGMENT_DURATION_2S  | 2 seconds.  |                             |
|                          | SEGMENT_DURATION_4S  | 4 seconds.  |                             |
|                          | SEGMENT_DURATION_6S  | 6 seconds.  |                             |
|                          | SEGMENT_DURATION_8S  | 8 seconds.  |                             |
|                          | SEGMENT_DURATION_10S | 10 seconds.   |                             |
|                          | OTHER                | Customize the value.  |                             |
| segmentDurationHLSCustom | number               | Customizes the number of seconds for the segment.                 | segmentDurationHLS is OTHER |
| segmentSizeHLS           | enum                 | Specifies the size of the media object retrieved from the origin. | hls is true                 |
|                          | LESS_THAN_1MB        | Less than 1Mb.  |                             |
|                          | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                             |
|                          | TEN_MB_TO_100_MB     | 10-100Mb.   |                             |
|                          | GREATER_THAN_100MB   | More than 100Mb.  |                             |
|                          | UNKNOWN              | Defer this optimization.  |                             |
|                          | OTHER                | Sizes straddle these ranges.                                      |                             |
| hds                      | boolean              | Enable delivery of HDS media.                                     |                             |
| segmentDurationHDS       | enum                 | Specifies the duration of individual fragments.                   | hds is true                 |
|                          | SEGMENT_DURATION_2S  | 2 seconds.  |                             |
|                          | SEGMENT_DURATION_4S  | 4 seconds.  |                             |
|                          | SEGMENT_DURATION_6S  | 6 seconds.  |                             |
|                          | SEGMENT_DURATION_8S  | 8 seconds.  |                             |
|                          | SEGMENT_DURATION_10S | 10 seconds.   |                             |
|                          | OTHER                | Customize the value.  |                             |
| segmentDurationHDSCustom | number               | Customizes the number of seconds for the fragment.                | segmentDurationHDS is OTHER |
| segmentSizeHDS           | enum                 | Specifies the size of the media object retrieved from the origin. | hds is true                 |
|                          | LESS_THAN_1MB        | Less than 1Mb.  |                             |
|                          | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                             |
|                          | TEN_MB_TO_100_MB     | 10-100Mb.   |                             |

| Option                      | Type                 | Description   | <a href="#">Requires</a>       |
|-----------------------------|----------------------|---|--------------------------------|
|                             | GREATER_THAN_100MB   | More than 100Mb.  |                                |
|                             | UNKNOWN              | Defer this optimization.  |                                |
|                             | OTHER                | Customize the value.  |                                |
| dash                        | boolean              | Enable delivery of DASH media.                                    |                                |
| segmentDurationDASH         | enum                 | Specifies the duration of individual segments.                    | dash is true                   |
|                             | SEGMENT_DURATION_2S  | 2 seconds.  |                                |
|                             | SEGMENT_DURATION_4S  | 4 seconds.  |                                |
|                             | SEGMENT_DURATION_6S  | 6 seconds.  |                                |
|                             | SEGMENT_DURATION_8S  | 8 seconds.  |                                |
|                             | SEGMENT_DURATION_10S | 10 seconds.   |                                |
|                             | OTHER                | Customize the value.  |                                |
| segmentDurationDASHCustom   | number               | Customizes the number of seconds for the segment.                 | segmentDurationDASH is OTHER   |
| segmentSizeDASH             | enum                 | Specifies the size of the media object retrieved from the origin. | dash is true                   |
|                             | LESS_THAN_1MB        | Less than 1Mb.  |                                |
|                             | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                                |
|                             | TEN_MB_TO_100_MB     | 10-100Mb.   |                                |
|                             | GREATER_THAN_100MB   | More than 100Mb.  |                                |
|                             | UNKNOWN              | Defer this optimization.  |                                |
|                             | OTHER                | Sizes that straddle these ranges.                                 |                                |
| smooth                      | boolean              | Enable delivery of Smooth media.                                  |                                |
| segmentDurationSmooth       | enum                 | Specifies the duration of individual fragments.                   | smooth is true                 |
|                             | SEGMENT_DURATION_2S  | 2 seconds.  |                                |
|                             | SEGMENT_DURATION_4S  | 4 seconds.  |                                |
|                             | SEGMENT_DURATION_6S  | 6 seconds.  |                                |
|                             | SEGMENT_DURATION_8S  | 8 seconds.  |                                |
|                             | SEGMENT_DURATION_10S | 10 seconds.   |                                |
|                             | OTHER                | Customize the value.  |                                |
| segmentDurationSmoothCustom | number               | Customizes the number of seconds for the fragment.                | segmentDurationSmooth is OTHER |
| segmentSizeSmooth           | enum                 | Specifies the size of the media object retrieved from the origin. | smooth is true                 |

| Option | Type               | Description                  | <a href="#">Requires</a> |
|--------|--------------------|------------------------------|--------------------------|
|        | LESS_THAN_1MB      | Less than 1Mb.               |                          |
|        | ONE_MB_TO_TEN_MB   | 1-10Mb.                      |                          |
|        | TEN_MB_TO_100_MB   | 10-100Mb.                    |                          |
|        | GREATER_THAN_100MB | More than 100Mb.             |                          |
|        | UNKNOWN            | Defer this optimization.     |                          |
|        | OTHER              | Sizes straddle these ranges. |                          |

## contentCharacteristicsDD

- **Property Manager name:** [Content Characteristics](#)
- **Behavior version:** The v2019-07-25 rule format supports the contentCharacteristicsDD behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies characteristics of the delivered content. Akamai uses this information to optimize your metadata configuration, which may result in better origin offload and end-user performance.

Along with other behaviors whose names are prefixed *contentCharacteristics*, this behavior is customized for a specific product set. Use PAPI's [List available behaviors](#) operation to determine the set available to you. See also the related [clientCharacteristics](#) and [originCharacteristics](#) behaviors.

| Option                 | Type               | Description   |
|------------------------|--------------------|---|
| objectSize             | enum               | Optimize based on the size of the object retrieved from the origin. |
|                        | LESS_THAN_1MB      | Less than 1Mb.  |
|                        | ONE_MB_TO_TEN_MB   | 1-10Mb.   |
|                        | TEN_MB_TO_100_MB   | 10-100Mb.   |
|                        | GREATER_THAN_100MB | More than 100Mb.  |
|                        | OTHER              | A fallback value.   |
|                        | UNKNOWN            | Defer this optimization.  |
| popularityDistribution | enum               | Optimize based on the content's expected popularity.                |
|                        | LONG_TAIL          | A low volume of requests over a long period.                        |
|                        | ALL_POPULAR        | A high volume of requests over a short period.                      |
|                        | OTHER              | A fallback value.   |
|                        | UNKNOWN            | Defer this optimization.  |
| catalogSize            | enum               | Optimize based on the total size of the content library delivered.  |
|                        | SMALL              | Less than 100Gb.  |
|                        | MEDIUM             | 100Gb-1Tb.  |

| Option         | Type            | Description   |
|----------------|-----------------|---|
|                | LARGE           | 1-100Tb.  |
|                | EXTRA_LARGE     | More than 100Tb.  |
|                | OTHER           | A fallback value.   |
|                | UNKNOWN         | Defer this optimization.  |
| contentType    | enum            | Optimize based on the type of content.                                |
|                | VIDEO           | Video.  |
|                | SOFTWARE        | Software.   |
|                | SOFTWARE_PATCH  | Software patch.   |
|                | GAME            | Game.   |
|                | GAME_PATCH      | Game patch.   |
|                | OTHER_DOWNLOADS | Other downloads that don't fall into these categories.                |
|                | UNKNOWN         | Defer this optimization.  |
| optimizeOption | boolean         | Optimizes the delivery throughput and download times for large files. |

## contentCharacteristicsWsdLargeFile

- **Property Manager name:** [Content Characteristics - Large File](#)
- **Behavior version:** The v2019-07-25 rule format supports the contentCharacteristicsWsdLargeFile behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies characteristics of the delivered content, specifically targeted to delivering large files. Akamai uses this information to optimize your metadata configuration, which may result in better origin offload and end-user performance.

Along with other behaviors whose names are prefixed *contentCharacteristics*, this behavior is customized for a specific product set. Use PAPI's [List available behaviors](#) operation to determine the set available to you. See also the related [clientCharacteristics](#) and [originCharacteristics](#) behaviors.

| Option                 | Type               | Description   |
|------------------------|--------------------|---|
| objectSize             | enum               | Optimize based on the size of the object retrieved from the origin. |
|                        | LESS_THAN_1MB      | Less than 1Mb.  |
|                        | ONE_MB_TO_TEN_MB   | 1-10Mb.   |
|                        | TEN_MB_TO_100_MB   | 10-100Mb.   |
|                        | GREATER_THAN_100MB | More than 100Mb.  |
|                        | UNKNOWN            | Defer this optimization.  |
| popularityDistribution | enum               | Optimize based on the content's expected popularity.                |
|                        | LONG_TAIL          | A low volume of requests over a long period.                        |



| Option      | Type            | Description  |
|-------------|-----------------|--|
|             | ALL_POPULAR     | A high volume of requests over a short period.                     |
|             | UNKNOWN         | Defer this optimization.   |
| catalogSize | enum            | Optimize based on the total size of the content library delivered. |
|             | SMALL           | Less than 100Gb.   |
|             | MEDIUM          | 100Gb-1Tb.   |
|             | LARGE           | 1-100Tb.   |
|             | EXTRA_LARGE     | More than 100Tb.   |
|             | UNKNOWN         | Defer this optimization.   |
| contentType | enum            | Optimize based on the type of content.                             |
|             | VIDEO           | Video.   |
|             | SOFTWARE        | Software.  |
|             | SOFTWARE_PATCH  | Software patch.  |
|             | GAME            | Game.  |
|             | GAME_PATCH      | Game patch.  |
|             | OTHER_DOWNLOADS | Other downloads that don't fall into these categories.             |
|             | UNKNOWN         | Defer this optimization.   |

## contentCharacteristicsWsdLive

- **Property Manager name:** [Content Characteristics - Streaming Video Live](#)
- **Behavior version:** The v2019-07-25 rule format supports the contentCharacteristicsWsdLive behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies characteristics of the delivered content, specifically targeted to delivering live video. Akamai uses this information to optimize your metadata configuration, which may result in better origin offload and end-user performance.

Along with other behaviors whose names are prefixed *contentCharacteristics*, this behavior is customized for a specific product set. Use PAPI's [List available behaviors](#) operation to determine the set available to you. See also the related [clientCharacteristics](#) and [originCharacteristics](#) behaviors.

| Option      | Type        | Description  | <a href="#">Requires</a> |
|-------------|-------------|--|--------------------------|
| catalogSize | enum        | Optimize based on the total size of the content library delivered. |                          |
|             | SMALL       | Less than 100Gb.   |                          |
|             | MEDIUM      | 100Gb-1Tb.   |                          |
|             | LARGE       | 1-100Tb.   |                          |
|             | EXTRA_LARGE | More than 100Tb.   |                          |

| Option                 | Type                 | Description   | <a href="#">Requires</a> |
|------------------------|----------------------|---|--------------------------|
|                        | UNKNOWN              | Defer this optimization.  |                          |
| contentType            | enum                 | Optimize based on the quality of media content.                   |                          |
|                        | SD                   | Standard definition.  |                          |
|                        | HD                   | High definition.  |                          |
|                        | ULTRA_HD             | Ultra high definition.  |                          |
|                        | OTHER                | More than one level of quality.                                   |                          |
|                        | UNKNOWN              | Defer this optimization.  |                          |
| popularityDistribution | enum                 | Optimize based on the content's expected popularity.              |                          |
|                        | LONG_TAIL            | A low volume of requests over a long period.                      |                          |
|                        | ALL_POPULAR          | A high volume of requests over a short period.                    |                          |
|                        | UNKNOWN              | Defer this optimization.  |                          |
| hls                    | boolean              | Enable delivery of HLS media.                                     |                          |
| segmentDurationHLS     | enum                 | Specifies the duration of individual segments.                    | hls is true              |
|                        | SEGMENT_DURATION_2S  | 2 seconds.  |                          |
|                        | SEGMENT_DURATION_4S  | 4 seconds.  |                          |
|                        | SEGMENT_DURATION_6S  | 6 seconds.  |                          |
|                        | SEGMENT_DURATION_8S  | 8 seconds.  |                          |
|                        | SEGMENT_DURATION_10S | 10 seconds.   |                          |
| segmentSizeHLS         | enum                 | Specifies the size of the media object retrieved from the origin. | hls is true              |
|                        | LESS_THAN_1MB        | Less than 1Mb.  |                          |
|                        | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                          |
|                        | TEN_MB_TO_100_MB     | 10-100Mb.   |                          |
|                        | GREATER_THAN_100MB   | More than 100Mb.  |                          |
|                        | UNKNOWN              | Defer this optimization.  |                          |
|                        | OTHER                | Sizes straddle these ranges.                                      |                          |
| hds                    | boolean              | Enable delivery of HDS media.                                     |                          |
| segmentDurationHDS     | enum                 | Specifies the duration of individual fragments.                   | hds is true              |
|                        | SEGMENT_DURATION_2S  | 2 seconds.  |                          |
|                        | SEGMENT_DURATION_4S  | 4 seconds.  |                          |
|                        | SEGMENT_DURATION_6S  | 6 seconds.  |                          |
|                        | SEGMENT_DURATION_8S  | 8 seconds.  |                          |
|                        | SEGMENT_DURATION_10S | 10 seconds.   |                          |
| segmentSizeHDS         | enum                 | Specifies the size of the media object retrieved from the origin. | hds is true              |
|                        | LESS_THAN_1MB        | Less than 1Mb.  |                          |
|                        | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                          |
|                        | TEN_MB_TO_100_MB     | 10-100Mb.   |                          |
|                        | GREATER_THAN_100MB   | More than 100Mb.  |                          |
|                        | UNKNOWN              | Defer this optimization.  |                          |

| Option                | Type                 | Description   | <a href="#">Requires</a> |
|-----------------------|----------------------|---|--------------------------|
|                       | OTHER                | Sizes straddle these ranges.                                      |                          |
| dash                  | boolean              | Enable delivery of DASH media.                                    |                          |
| segmentDurationDASH   | enum                 | Specifies the duration of individual segments.                    | dash is true             |
|                       | SEGMENT_DURATION_2S  | 2 seconds.  |                          |
|                       | SEGMENT_DURATION_4S  | 4 seconds.  |                          |
|                       | SEGMENT_DURATION_6S  | 6 seconds.  |                          |
|                       | SEGMENT_DURATION_8S  | 8 seconds.  |                          |
|                       | SEGMENT_DURATION_10S | 10 seconds.   |                          |
| segmentSizeDASH       | enum                 | Specifies the size of the media object retrieved from the origin. | dash is true             |
|                       | LESS_THAN_1MB        | Less than 1Mb.  |                          |
|                       | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                          |
|                       | TEN_MB_TO_100_MB     | 10-100Mb.   |                          |
|                       | GREATER_THAN_100MB   | More than 100Mb.  |                          |
|                       | UNKNOWN              | Defer this optimization.  |                          |
|                       | OTHER                | Sizes straddle these ranges.                                      |                          |
| smooth                | boolean              | Enable delivery of Smooth media.                                  |                          |
| segmentDurationSmooth | enum                 | Specifies the duration of individual fragments.                   | smooth is true           |
|                       | SEGMENT_DURATION_2S  | 2 seconds.  |                          |
|                       | SEGMENT_DURATION_4S  | 4 seconds.  |                          |
|                       | SEGMENT_DURATION_6S  | 6 seconds.  |                          |
|                       | SEGMENT_DURATION_8S  | 8 seconds.  |                          |
|                       | SEGMENT_DURATION_10S | 10 seconds.   |                          |
| segmentSizeSmooth     | enum                 | Specifies the size of the media object retrieved from the origin. | smooth is true           |
|                       | LESS_THAN_1MB        | Less than 1Mb.  |                          |
|                       | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                          |
|                       | TEN_MB_TO_100_MB     | 10-100Mb.   |                          |
|                       | GREATER_THAN_100MB   | More than 100Mb.  |                          |
|                       | UNKNOWN              | Defer this optimization.  |                          |
|                       | OTHER                | Sizes that straddle these ranges.                                 |                          |

## contentCharacteristicsWsdVod

- **Property Manager name:** [Content Characteristics - Streaming Video On-demand](#)
- **Behavior version:** The v2019-07-25 rule format supports the contentCharacteristicsWsdVod behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies characteristics of the delivered content, specifically targeted to delivering on-demand video. Akamai uses this information to optimize your metadata configuration, which may result in better origin offload and end-user performance.

Along with other behaviors whose names are prefixed *contentCharacteristics*, this behavior is customized for a specific product set. Use PAPI's [List available behaviors](#) operation to determine the set available to you. See also the related [clientCharacteristics](#) and [originCharacteristics](#) behaviors.

| Option                 | Type                 | Description  | <a href="#">Requires</a> |
|------------------------|----------------------|--|--------------------------|
| catalogSize            | enum                 | Optimize based on the total size of the content library delivered. |                          |
|                        | SMALL                | Less than 100Gb.   |                          |
|                        | MEDIUM               | 100Gb-1Tb.   |                          |
|                        | LARGE                | 1-100Tb.   |                          |
|                        | EXTRA_LARGE          | More than 100Tb.   |                          |
|                        | UNKNOWN              | Defer this optimization.   |                          |
| contentType            | enum                 | Optimize based on the quality of media content.                    |                          |
|                        | SD                   | Standard definition.   |                          |
|                        | HD                   | High definition.   |                          |
|                        | ULTRA_HD             | Ultra high definition.   |                          |
|                        | OTHER                | More than one level of quality.                                    |                          |
|                        | UNKNOWN              | Defer this optimization.   |                          |
| popularityDistribution | enum                 | Optimize based on the content's expected popularity.               |                          |
|                        | LONG_TAIL            | A low volume of requests over a long period.                       |                          |
|                        | ALL_POPULAR          | A high volume of requests over a short period.                     |                          |
|                        | UNKNOWN              | Defer this optimization.   |                          |
| hls                    | boolean              | Enable delivery of HLS media.                                      |                          |
| segmentDurationHLS     | enum                 | Specifies the duration of individual segments.                     | hls is true              |
|                        | SEGMENT_DURATION_2S  | 2 seconds.   |                          |
|                        | SEGMENT_DURATION_4S  | 4 seconds.   |                          |
|                        | SEGMENT_DURATION_6S  | 6 seconds.   |                          |
|                        | SEGMENT_DURATION_8S  | 8 seconds.   |                          |
|                        | SEGMENT_DURATION_10S | 10 seconds.  |                          |
| segmentSizeHLS         | enum                 | Specifies the size of the media object retrieved from the origin.  | hls is true              |
|                        | LESS_THAN_1MB        | Less than 1Mb.   |                          |
|                        | ONE_MB_TO_TEN_MB     | 1-10Mb.  |                          |
|                        | TEN_MB_TO_100_MB     | 10-100Mb.  |                          |
|                        | GREATER_THAN_100MB   | More than 100Mb.   |                          |
|                        | UNKNOWN              | Defer this optimization.   |                          |
|                        | OTHER                | Sizes straddle these ranges.                                       |                          |
| hds                    | boolean              | Enable delivery of HDS media.                                      |                          |
| segmentDurationHDS     | enum                 | Specifies the duration of individual fragments.                    | hds is true              |
|                        | SEGMENT_DURATION_2S  | 2 seconds.   |                          |

| Option                | Type                 | Description   | <a href="#">Requires</a> |
|-----------------------|----------------------|---|--------------------------|
|                       | SEGMENT_DURATION_4S  | 4 seconds.  |                          |
|                       | SEGMENT_DURATION_6S  | 6 seconds.  |                          |
|                       | SEGMENT_DURATION_8S  | 8 seconds.  |                          |
|                       | SEGMENT_DURATION_10S | 10 seconds.   |                          |
| segmentSizeHDS        | enum                 | Specifies the size of the media object retrieved from the origin. | hds is true              |
|                       | LESS_THAN_1MB        | Less than 1Mb.  |                          |
|                       | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                          |
|                       | TEN_MB_TO_100_MB     | 10-100Mb.   |                          |
|                       | GREATER_THAN_100MB   | More than 100Mb.  |                          |
|                       | UNKNOWN              | Defer this optimization.  |                          |
|                       | OTHER                | Sizes straddle these ranges.                                      |                          |
| dash                  | boolean              | Enable delivery of DASH media.                                    |                          |
| segmentDurationDASH   | enum                 | Specifies the duration of individual segments.                    | dash is true             |
|                       | SEGMENT_DURATION_2S  | 2 seconds.  |                          |
|                       | SEGMENT_DURATION_4S  | 4 seconds.  |                          |
|                       | SEGMENT_DURATION_6S  | 6 seconds.  |                          |
|                       | SEGMENT_DURATION_8S  | 8 seconds.  |                          |
|                       | SEGMENT_DURATION_10S | 10 seconds.   |                          |
| segmentSizeDASH       | enum                 | Specifies the size of the media object retrieved from the origin. | dash is true             |
|                       | LESS_THAN_1MB        | Less than 1Mb.  |                          |
|                       | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                          |
|                       | TEN_MB_TO_100_MB     | 10-100Mb.   |                          |
|                       | GREATER_THAN_100MB   | More than 100Mb.  |                          |
|                       | UNKNOWN              | Defer this optimization.  |                          |
|                       | OTHER                | Values straddle these ranges.                                     |                          |
| smooth                | boolean              | Enable delivery of Smooth media.                                  |                          |
| segmentDurationSmooth | enum                 | Specifies the duration of individual fragments.                   | smooth is true           |
|                       | SEGMENT_DURATION_2S  | 2 seconds.  |                          |
|                       | SEGMENT_DURATION_4S  | 4 seconds.  |                          |
|                       | SEGMENT_DURATION_6S  | 6 seconds.  |                          |
|                       | SEGMENT_DURATION_8S  | 8 seconds.  |                          |
|                       | SEGMENT_DURATION_10S | 10 seconds.   |                          |
| segmentSizeSmooth     | enum                 | Specifies the size of the media object retrieved from the origin. | smooth is true           |
|                       | LESS_THAN_1MB        | Less than 1Mb.  |                          |
|                       | ONE_MB_TO_TEN_MB     | 1-10Mb.   |                          |
|                       | TEN_MB_TO_100_MB     | 10-100Mb.   |                          |
|                       | GREATER_THAN_100MB   | More than 100Mb.  |                          |
|                       | UNKNOWN              | Defer this optimization.  |                          |

| Option | Type  | Description                  | Requires |
|--------|-------|------------------------------|----------|
|        | OTHER | Sizes straddle these ranges. |          |

## contentTargetingProtection

- **Property Manager name:** [Content Targeting - Protection](#)
- **Behavior version:** The v2019-07-25 rule format supports the `contentTargetingProtection` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Content Targeting is based on [EdgeScape](#), Akamai's location-based access control system. You can use it to allow or deny access to a set of geographic regions or IP addresses.

| Option                               | Type         | Description   | Requires                                     |
|--------------------------------------|--------------|---|--|
| <code>enabled</code>                 | boolean      | Enables the Content Targeting feature.  |  |
| <code>enableGeoProtection</code>     | boolean      | When enabled, verifies IP addresses are unique to specific geographic regions.  |  |
| <code>geoProtectionMode</code>       | enum         | Specifies how to handle requests.   | <code>enableGeoProtection</code> is true     |
|                                      | ALLOW        | Allow requests.   |  |
|                                      | DENY         | Deny requests.  |  |
| <code>countries</code>               | string array | Specifies a set of two-character ISO 3166 country codes from which to allow or deny traffic. See <a href="#">EdgeScape Data Codes</a> for a list. | <code>enableGeoProtection</code> is true     |
| <code>regions</code>                 | string array | Specifies a set of ISO 3166-2 regional codes from which to allow or deny traffic. See <a href="#">EdgeScape Data Codes</a> for a list.            | <code>enableGeoProtection</code> is true     |
| <code>dmaz</code>                    | string array | Specifies the set of Designated Market Area codes from which to allow or deny traffic. See <a href="#">EdgeScape Data Codes</a> for a list.       | <code>enableGeoProtection</code> is true     |
| <code>overrideIPAddresses</code>     | string array | Specify a set of IP addresses or CIDR blocks that exceptions to the set of included or excluded areas.  | <code>enableGeoProtection</code> is true     |
| <code>enableGeoRedirectOnDeny</code> | boolean      | When enabled, redirects denied requests rather than responding with an error code.  | <code>enableGeoProtection</code> is true     |
| <code>geoRedirectUrl</code>          | string       | This specifies the full URL to the redirect page for denied requests.   | <code>enableGeoRedirectOnDeny</code> is true |
| <code>enableIPProtection</code>      | boolean      | Allows you to control access to your content from specific sets of IP addresses and CIDR blocks.  |  |
| <code>ipProtectionMode</code>        | enum         | Specifies how to handle requests.   | <code>enableIPProtection</code> is true      |
|                                      | ALLOW        | Allow requests.   |  |
|                                      | DENY         | Deny requests.  |  |
| <code>ipAddresses</code>             | string array | Specify a set of IP addresses or CIDR blocks to allow or deny.  | <code>enableIPProtection</code> is true      |
| <code>enableIPRedirectOnDeny</code>  | boolean      | When enabled, redirects denied requests rather than responding with an error code.  | <code>enableIPProtection</code> is true      |

| Option                       | Type         | Description   | <a href="#">Requires</a>             |
|------------------------------|--------------|---|--------------------------------------|
| ipRedirectUrl                | string       | This specifies the full URL to the redirect page for denied requests.   | enableIPRedirectOnDeny is true       |
| enableReferrerProtection     | boolean      | Allows you allow traffic from certain referring websites, and disallow traffic from unauthorized sites that hijack those links. |                                      |
| referrerProtectionMode       | enum         | Specify the action to take.   | enableReferrerProtection is true     |
|                              | ALLOW        | Allow requests.   |                                      |
|                              | DENY         | Deny requests.  |                                      |
| referrerDomains              | string array | Specifies the set of domains from which to allow or deny traffic.   | enableReferrerProtection is true     |
| enableReferrerRedirectOnDeny | boolean      | When enabled, redirects denied requests rather than responding with an error code.  | enableReferrerProtection is true     |
| referrerRedirectUrl          | string       | This specifies the full URL to the redirect page for denied requests.   | enableReferrerRedirectOnDeny is true |

## cpCode

- **Property Manager name:** [Content Provider Code](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the cpCode behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Content Provider Codes (CP codes) allow you to distinguish various reporting and billing segments. You receive a CP code when purchasing Akamai service, and you need it to access properties. This behavior allows you to apply any valid CP code, including additional ones you may request from Akamai Professional Services. For a CP code to be valid, it needs to belong to the same contract and be associated with the same product as the property, and the group needs access to it.

| Option            | Type    | Description   |
|-------------------|---------|---|
| value             | object  | Specifies a value object, which includes an id key and a descriptive name . |
| value.description | string  | Additional description for the CP code.                                     |
| value.id          | integer | Unique identifier for each CP code.   |
| value.name        | string  | The name of the CP code.  |
| value.products    | array   | The set of products the CP code is assigned to.                             |

## customBehavior

- **Property Manager name:** [Custom Behavior](#)
- **Behavior version:** The v2019-07-25 rule format supports the customBehavior behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allows you to insert a customized XML metadata behavior into any property's rule tree. Talk to your Akamai representative to implement the customized behavior. Once it's ready, run PAPI's [List custom behaviors](#) operation, then apply the relevant behaviorId value from the response within the current customBehavior. See [Custom behaviors and overrides](#) for guidance on custom metadata behaviors.

| Option     | Type   | Description  |
|------------|--------|--|
| behaviorId | string | The unique identifier for the predefined custom behavior you want to insert into the current rule. |

## datastream

- **Property Manager name:** [DataStream](#)
- **Behavior version:** The v2019-07-25 rule format supports the datastream behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [DataStream](#) reporting service provides real-time logs on application activity, including aggregated metrics on complete request and response cycles and origin response times. Apply this behavior to report on this set of traffic. Use the [DataStream API](#) to aggregate the data.

| Option  | Type    | Description                   |
|---------|---------|-------------------------------|
| enabled | boolean | Enables DataStream reporting. |

## dcp

- **Property Manager name:** [IoT Edge Connect](#)
- **Behavior version:** The v2019-07-25 rule format supports the dcp behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Internet of Things: Edge Connect](#) product allows connected users and devices to communicate on a publish-subscribe basis within reserved namespaces. (The [IoT Edge Connect API](#) allows programmatic access.) This behavior allows you to select previously reserved namespaces and set the protocols for users to publish and receive messages within these namespaces. Use the [verifyJsonWebTokenForDcp](#) behavior to control access.



| Option       | Type    | Description   |
|--------------|---------|---|
| enabled      | boolean | Enables IoT Edge Connect.   |
| namespace id | string  | Specifies the globally reserved name for a specific configuration. It includes authorization rules over publishing and subscribing to logical categories known as <i>topics</i> . This provides a root path for all topics defined within a namespace configuration. You can use the <a href="#">IoT Edge Connect API</a> to configure access control lists for your namespace configuration. |
| tlsenabled   | boolean | When enabled, you can publish and receive messages over a secured MQTT connection on port 8883.   |
| wsenabled    | boolean | When enabled, you can publish and receive messages through a secured MQTT connection over WebSockets on port 443.   |
| gwenabled    | boolean | When enabled, you can publish and receive messages over a secured HTTP connection on port 443.  |
| anonymous    | boolean | When enabled, you don't need to pass the JWT token with the mqtt request, and JWT validation is skipped.  |

## dcpAuthHMACTransformation

- **Property Manager name:** [Variable Hash Transformation](#)
- **Behavior version:** The v2019-07-25 rule format supports the dcpAuthHMACTransformation behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Internet of Things: Edge Connect](#) product allows connected users and devices to communicate on a publish-subscribe basis within reserved namespaces. In conjunction with [dcpAuthVariableExtractor](#), this behavior affects how clients can authenticate themselves to edge servers, and which groups within namespaces are authorized to access topics. It transforms a source string value extracted from the client certificate and stored as a variable, then generates a hash value based on the selected algorithm, for use in authenticating the client request.

Note that you can apply this hash transformation, or either of the [dcpAuthRegexTransformation](#) or [dcpAuthSubstring Transformation](#) behaviors.

| Option                  | Type   | Description   |
|-------------------------|--------|---|
| hashConversionAlgorithm | enum   | Specifies the hash algorithm.   |
|                         | SHA256 | Use SHA-256.  |
|                         | MD5    | Use MD5.  |
|                         | SHA384 | Use SHA-384.  |
| hashConversionKey       | string | Specifies the key to generate the hash, ideally a long random string to ensure adequate security. |

## dcpAuthRegexTransformation

- **Property Manager name:** [Variable Regex Transformation](#)

- **Behavior version:** The `v2019-07-25` rule format supports the `dcpAuthRegexTransformation` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Internet of Things: Edge Connect](#) product allows connected users and devices to communicate on a publish-subscribe basis within reserved namespaces. In conjunction with `dcpAuthVariableExtractor`, this behavior affects how clients can authenticate themselves to edge servers, and which groups within namespaces are authorized to access topics. It transforms a source string value extracted from the client certificate and stored as a variable, then transforms the string based on a regular expression search pattern, for use in authenticating the client request.

Note that you can apply this regular expression transformation, or either of the `dcpAuthHMACTransformation` or `dcpAuthSubstringTransformation` behaviors.

| Option                        | Type   | Description  |
|-------------------------------|--------|--|
| <code>regex</code><br>Pattern | string | Specifies a Perl-compatible regular expression with a single grouping to capture the text. For example, a value of <code>^(.{0,10})</code> omits the first character, but then captures up to 10 characters after that. If the regular expression does not capture a substring, authentication may fail. |

## dcpAuthSubstringTransformation

- **Property Manager name:** [Variable Substring Transformation](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `dcpAuthSubstringTransformation` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Internet of Things: Edge Connect](#) product allows connected users and devices to communicate on a publish-subscribe basis within reserved namespaces. In conjunction with `dcpAuthVariableExtractor`, this behavior affects how clients can authenticate themselves to edge servers, and which groups within namespaces are authorized to access topics. It transforms a source string value extracted from the client certificate and stored as a variable, then extracts a substring, for use in authenticating the client request.

Note that you can apply this substring transformation, or either of the `dcpAuthHMACTransformation` or `dcpAuthRegexTransformation` behaviors.

| Option                          | Type   | Description  |
|---------------------------------|--------|--|
| <code>substring</code><br>Start | string | The zero-based index offset of the first character to extract. If the index is out of bound from the string's length, authentication may fail.   |
| <code>substring</code><br>End   | string | The zero-based index offset of the last character to extract, where <code>-1</code> selects the remainder of the string. If the index is out of bound from the string's length, authentication may fail. |

## dcpAuthVariableExtractor

- **Property Manager name:** [Mutual Authentication](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the dcpAuthVariableExtractor behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Internet of Things: Edge Connect](#) <sup>↗</sup> product allows connected users and devices to communicate on a publish-subscribe basis within reserved namespaces. This behavior affects how clients can authenticate themselves to edge servers, and which groups within namespaces are authorized to access topics. When enabled, this behavior allows end users to authenticate their requests with valid x509 client certificates. Either a client identifier or access authorization groups are required to make the request valid.

The behavior extracts the value from the specified field in the client certificate and stores it as a variable for a client identifier or access authorization groups. You can then apply any of these behaviors to transform the value: [dcpAuthHMACTransformation](#) , [dcpAuthRegexTransformation](#) , or [dcpAuthSubstringTransformation](#) .

| Option                            | Type                | Description   |
|-----------------------------------|---------------------|---|
| certificateField                  | enum                | Specifies the field in the client certificate to extract the variable from.                               |
|                                   | SUBJECT_DN          | Subject distinguished name.   |
|                                   | V3_SUBJECT_ALT_NAME | Subject alternative name.   |
|                                   | SERIAL              | Serial number.  |
|                                   | FINGERPRINT_DYN     | The fingerprint hashed based on the algorithm that was used to generate the signature in the certificate. |
|                                   | FINGERPRINT_MD5     | Fingerprint MD5.  |
|                                   | FINGERPRINT_SHA1    | Fingerprint SHA1.   |
|                                   | V3_NETSCAPE_COMMENT | An X.509 v3 certificate extension used to include comments inside certificates.                           |
| dcpMutualAuthProcessingVariableId | enum                | Where to store the value.   |
|                                   | VAR_DCP_CLIENT_ID   | Variable for the client ID.   |
|                                   | VAR_DCP_AUTH_GROUP  | Variable for the access authorization groups.   |

## dcpDefaultAuthzGroups

- **Property Manager name:** [Default Authorization Groups](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the dcpDefaultAuthzGroups behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)


The [Internet of Things: Edge Connect](#) <sup>↗</sup> product allows connected users and devices to communicate on a publish-subscribe basis within reserved namespaces. This behavior defines a set of default authorization groups to add to each request the property configuration controls. These groups have access regardless of the authentication

method you use, either JWT using the [verifyJsonWebTokenForDcp](#) behavior, or mutual authentication using the [dcpAuthVariableExtractor](#) behavior to control where authorization groups are extracted from within certificates.

| Option     | Type         | Description  |
|------------|--------------|--|
| groupNames | string array | Specifies the set of authorization groups to assign to all connecting devices. |


## dcpDevRelations

- **Property Manager name:** [IoT Edge Connect Dev Relations](#) 
- **Behavior version:** The v2019-07-25 rule format supports the `dcpDevRelations` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Internet of Things: Edge Connect](#)  product allows connected users and devices to communicate on a publish-subscribe basis within reserved namespaces. This behavior allows Akamai-external clients to use developer test accounts in a shared environment. In conjunction with [verifyJsonWebTokenForDcp](#), this behavior allows you to use your own JWTs in your requests, or those generated by Akamai. It lets you either enable the default JWT server for your test configuration by setting the authentication endpoint to a default path, or specify custom settings for your JWT server and the authentication endpoint.

| Option        | Type    | Description   | <a href="#">Requires</a>          |
|---------------|---------|---|-----------------------------------|
| enabled       | boolean | Enables the default JWT server and sets the authentication endpoint to a default path.                              |                                   |
| custom Values | boolean | Allows you to specify custom JWT server connection values.  |                                   |
| hostname      | string  | Specifies the JWT server's hostname.  | <code>customValues</code> is true |
| path          | string  | Specifies the path to your JWT server's authentication endpoint. This lets you generate JWTs to sign your requests. | <code>customValues</code> is true |

## deliveryReceipt


- **Property Manager name:** [Cloud Monitor Data Delivery](#) 
- **Behavior version:** The v2019-07-25 rule format supports the `deliveryReceipt` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

A static behavior that's required when specifying the Cloud Monitor module's ( [edgeConnect](#) ) behavior. You can only apply this behavior if the property is marked as secure. See [Secure property requirements](#) for guidance.

This behavior object does not support any options. Specifying the behavior enables it.

## denyAccess

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- **Property Manager name:** [Control Access](#) 
- **Behavior version:** The v2019-07-25 rule format supports the denyAccess behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)


Assuming a condition in the rule matches, this denies access to the requested content. For example, a `userLocation` match paired with the `denyaccess` behavior would deny requests from a specified part of the world.

By keying on the value of the `reason` option, `denyaccess` behaviors may override each other when called from nested rules. For example, a parent rule might deny access to a certain geographic area, citing "location" as the `reason`, but another nested rule can then allow access for a set of IPs within that area, so long as the `reason` matches.

| Option               | Type    | Description  |
|----------------------|---------|--|
| <code>reason</code>  | string  | Text message that keys why access is denied. Any subsequent <code>denyaccess</code> behaviors within the rule tree may refer to the same <code>reason</code> key to override the current behavior. |
| <code>enabled</code> | boolean | Denies access when enabled.  |

## denyDirectFailoverAccess

---

- **Property Manager name:** [Security Failover Protection](#) 
- **Behavior version:** The v2019-07-25 rule format supports the denyDirectFailoverAccess behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

A static behavior required for all properties that implement a failover under the Cloud Security Failover product.

This behavior object does not support any options. Specifying the behavior enables it.

## deviceCharacteristicCached

---

- **Property Manager name:** [Device Characterization - Define Cached Content](#) 

- **Behavior version:** The v2019-07-25 rule format supports the `deviceCharacteristicCacheId` behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

By default, source URLs serve as cache IDs on edge servers. Electronic Data Capture allows you to specify an additional set of device characteristics to generate separate cache keys. Use this in conjunction with the [deviceCharacteristicHeader](#) behavior.

| Option                    | Type                        | Description   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
|---------------------------|-----------------------------|---|---------------------------|------------------|---------------------------|-----------------|-------------------------|----------------|------------|------------------------|----------------|------------|-----------|-------------|-------------------|------------------------|------------------|-----------------------|--------------------|-----|--------------------|------------------|--------------|-------------------|--------------------|------------------|-----------|------------------------|-----------|----------------|--------------------|-----------------------------|-----|-------------------|----------------|-------------------------|
| elements                  | string array                | Specifies a set of information about the device with which to generate a separate cache key.  |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
|                           |                             | <div><b>Supported values:</b></div> <table><tbody><tr><td>ACCEPT_THIRD_PARTY_COOKIE</td><td>MAX_IMAGE_HEIGHT</td></tr><tr><td>AJAX_PREFERRED_GEOLOC_API</td><td>MAX_IMAGE_WIDTH</td></tr><tr><td>AJAX_SUPPORT_JAVASCRIPT</td><td>MOBILE_BROWSER</td></tr><tr><td>BRAND_NAME</td><td>MOBILE_BROWSER_VERSION</td></tr><tr><td>COOKIE_SUPPORT</td><td>MODEL_NAME</td></tr><tr><td>DEVICE_OS</td><td>PDF_SUPPORT</td></tr><tr><td>DEVICE_OS_VERSION</td><td>PHYSICAL_SCREEN_HEIGHT</td></tr><tr><td>DUAL_ORIENTATION</td><td>PHYSICAL_SCREEN_WIDTH</td></tr><tr><td>FLASH_LITE_VERSION</td><td>PNG</td></tr><tr><td>FULL_FLASH_SUPPORT</td><td>PREFERRED_MARKUP</td></tr><tr><td>GIF_ANIMATED</td><td>RESOLUTION_HEIGHT</td></tr><tr><td>HTML_PREFERRED_DTD</td><td>RESOLUTION_WIDTH</td></tr><tr><td>IS_MOBILE</td><td>VIEWPORT_INITIAL_SCALE</td></tr><tr><td>IS_TABLET</td><td>VIEWPORT_WIDTH</td></tr><tr><td>IS_WIRELESS_DEVICE</td><td>XHTMLMP_PREFERRED_MIME_TYPE</td></tr><tr><td>JPG</td><td>XHTML_FILE_UPLOAD</td></tr><tr><td>MARKETING_NAME</td><td>XHTML_PREFERRED_CHARSET</td></tr></tbody></table> | ACCEPT_THIRD_PARTY_COOKIE | MAX_IMAGE_HEIGHT | AJAX_PREFERRED_GEOLOC_API | MAX_IMAGE_WIDTH | AJAX_SUPPORT_JAVASCRIPT | MOBILE_BROWSER | BRAND_NAME | MOBILE_BROWSER_VERSION | COOKIE_SUPPORT | MODEL_NAME | DEVICE_OS | PDF_SUPPORT | DEVICE_OS_VERSION | PHYSICAL_SCREEN_HEIGHT | DUAL_ORIENTATION | PHYSICAL_SCREEN_WIDTH | FLASH_LITE_VERSION | PNG | FULL_FLASH_SUPPORT | PREFERRED_MARKUP | GIF_ANIMATED | RESOLUTION_HEIGHT | HTML_PREFERRED_DTD | RESOLUTION_WIDTH | IS_MOBILE | VIEWPORT_INITIAL_SCALE | IS_TABLET | VIEWPORT_WIDTH | IS_WIRELESS_DEVICE | XHTMLMP_PREFERRED_MIME_TYPE | JPG | XHTML_FILE_UPLOAD | MARKETING_NAME | XHTML_PREFERRED_CHARSET |
| ACCEPT_THIRD_PARTY_COOKIE | MAX_IMAGE_HEIGHT            |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| AJAX_PREFERRED_GEOLOC_API | MAX_IMAGE_WIDTH             |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| AJAX_SUPPORT_JAVASCRIPT   | MOBILE_BROWSER              |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| BRAND_NAME                | MOBILE_BROWSER_VERSION      |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| COOKIE_SUPPORT            | MODEL_NAME                  |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| DEVICE_OS                 | PDF_SUPPORT                 |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| DEVICE_OS_VERSION         | PHYSICAL_SCREEN_HEIGHT      |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| DUAL_ORIENTATION          | PHYSICAL_SCREEN_WIDTH       |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| FLASH_LITE_VERSION        | PNG                         |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| FULL_FLASH_SUPPORT        | PREFERRED_MARKUP            |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| GIF_ANIMATED              | RESOLUTION_HEIGHT           |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| HTML_PREFERRED_DTD        | RESOLUTION_WIDTH            |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| IS_MOBILE                 | VIEWPORT_INITIAL_SCALE      |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| IS_TABLET                 | VIEWPORT_WIDTH              |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| IS_WIRELESS_DEVICE        | XHTMLMP_PREFERRED_MIME_TYPE |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| JPG                       | XHTML_FILE_UPLOAD           |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |
| MARKETING_NAME            | XHTML_PREFERRED_CHARSET     |   |                           |                  |                           |                 |                         |                |            |                        |                |            |           |             |                   |                        |                  |                       |                    |     |                    |                  |              |                   |                    |                  |           |                        |           |                |                    |                             |     |                   |                |                         |

## deviceCharacteristicHeader

- **Property Manager name:** [Device Characterization - Forward in Header](#)<sup>\*</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `deviceCharacteristicHeader` behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Sends selected information about requesting devices to the origin server, in the form of an `X-Akamai-Device-Characteristics` HTTP header. Use in conjunction with the [deviceCharacteristicCacheId](#) behavior.

| Option   | Type         | Description  |
|----------|--------------|--|
| elements | string array | Specifies the set of information about the requesting device to send to the origin server. |

| Option | Type | Description   |
|--------|------|---|
|        |      | <b>Supported values:</b>  |
|        |      | ACCEPT_THIRD_PARTY_COOKIE<br>AJAX_PREFERRED_GEOLOC_API<br>AJAX_SUPPORT_JAVASCRIPT<br>BRAND_NAME<br>COOKIE_SUPPORT<br>DEVICE_OS<br>DEVICE_OS_VERSION<br>DUAL_ORIENTATION<br>FLASH_LITE_VERSION<br>FULL_FLASH_SUPPORT<br>GIF_ANIMATED<br>HTML_PREFERRED_DTD<br>IS_MOBILE<br>IS_TABLET<br>IS_WIRELESS_DEVICE<br>JPG<br>MARKETING_NAME<br>MAX_IMAGE_HEIGHT<br>MAX_IMAGE_WIDTH<br>MOBILE_BROWSER<br>MOBILE_BROWSER_VERSION<br>MODEL_NAME<br>PDF_SUPPORT<br>PHYSICAL_SCREEN_HEIGHT<br>PHYSICAL_SCREEN_WIDTH<br>PNG<br>PREFERRED_MARKUP<br>RESOLUTION_HEIGHT<br>RESOLUTION_WIDTH<br>VIEWPORT_INITIAL_SCALE<br>VIEWPORT_WIDTH<br>XHTMMP_PREFERRED_MIME_TYPE<br>XHTML_FILE_UPLOAD<br>XHTML_PREFERRED_CHARSET |

## dnsAsyncRefresh

- **Property Manager name:** [DNS Asynchronous Refresh](#)
- **Behavior version:** The v2019-07-25 rule format supports the dnsAsyncRefresh behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allow an edge server to use an expired DNS record when forwarding a request to your origin. The *type A* DNS record refreshes *after* content is served to the end user, so there is no wait for the DNS resolution. Avoid this behavior if you want to be able to disable a server immediately after its DNS record expires.

| Option  | Type              | Description   |
|---------|-------------------|---|
| enabled | boolean           | Allows edge servers to refresh an expired DNS record after serving content. |
| timeout | string (duration) | Set the maximum allowed time an expired DNS record may be active.           |

## dnsPrefresh

- **Property Manager name:** [DNS Prefresh](#)
- **Behavior version:** The v2019-07-25 rule format supports the dnsPrefresh behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

Allows edge servers to refresh your origin's DNS record independently from end-user requests. The *type A* DNS record refreshes before the origin's DNS record expires.

| Option               | Type              | Description   |
|----------------------|-------------------|---|
| <code>enabled</code> | boolean           | Allows edge servers to refresh DNS records before they expire.  |
| <code>delay</code>   | string (duration) | Specifies the amount of time following a DNS record's expiration to asynchronously prefetch it.         |
| <code>timeout</code> | string (duration) | Specifies the amount of time to prefetch a DNS entry if there have been no requests to the domain name. |

## downloadCompleteMarker

- **Property Manager name:** [Download Complete Marker](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `downloadCompleteMarker` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Internet of Things: OTA Updates](#) product allows customers to securely distribute firmware to devices over cellular networks. Based on match criteria that executes a rule, this behavior logs requests to the OTA servers as completed in aggregated and individual reports.

See also the [downloadNotification](#) and [requestTypeMarker](#) behaviors.

This behavior object does not support any options. Specifying the behavior enables it.

## downgradeProtocol

- **Property Manager name:** [Protocol Downgrade](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `downgradeProtocol` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Serve static objects to the end-user client over HTTPS, but fetch them from the origin via HTTP.

| Option               | Type    | Description                                |
|----------------------|---------|--|
| <code>enabled</code> | boolean | Enables the protocol downgrading behavior. |

## downloadNotification



- **Property Manager name:** [Download Notification](#)
- **Behavior version:** The v2019-07-25 rule format supports the `downloadNotification` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Internet of Things: OTA Updates](#) product allows customers to securely distribute firmware to devices over cellular networks. Based on match criteria that executes a rule, this behavior allows requests to the [OTA Updates API](#) for a list of completed downloads to individual vehicles.

See also the `downloadCompleteMarker` behavior.

This behavior object does not support any options. Specifying the behavior enables it.

## downstreamCache

- **Property Manager name:** [Downstream Cacheability](#)
- **Behavior version:** The v2019-07-25 rule format supports the `downstreamCache` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specify the caching instructions the edge server sends to the end user's client or client proxies. By default, the cache's duration is whichever is less: the remaining lifetime of the edge cache, or what the origin's header specifies. If the origin is set to `no-store` or `bypass-cache`, edge servers send *cache-busting* headers downstream to prevent downstream caching.

| Option                     | Type            | Description   | Requires                       |
|----------------------------|-----------------|---|--------------------------------|
| <code>behavior</code>      | enum            | Specify the caching instructions the edge server sends to the end user's client.  |                                |
|                            | ALLOW           | The value of <code>allowBehavior</code> chooses the caching method and headers to send to the client.   |                                |
|                            | MUST_REVALIDATE | This equates to a <code>Cache-Control: no-cache</code> header, which allows caching but forces the client browser to send an <code>if-modified-since</code> request each time it requests the object. |                                |
|                            | BUST            | Sends cache-busting headers downstream.   |                                |
|                            | TUNNEL_ORIGIN   | This passes <code>Cache-Control</code> and <code>Expires</code> headers from the origin to the downstream client.   |                                |
|                            | NONE            | Don't send any caching headers. Allow client browsers to cache content according to their own default settings.   |                                |
| <code>allowBehavior</code> | enum            | Specify how the edge server calculates the downstream cache by setting the value of the <code>Expires</code> header.  | <code>behavior</code> is ALLOW |
|                            | LESSER          | Sends the lesser value of what the origin specifies and the edge cache's remaining duration. This is the default behavior.  |                                |
|                            | GREATER         | Sends the greater value of what the origin specifies and the edge cache's remaining duration.   |                                |

| Option       | Type                      | Description  | Requires  |
|--------------|---------------------------|--|---|
|              | REMAINING_LIFETIME        | Sends the value of the edge cache's remaining duration, without comparing it to the origin's headers.                      |   |
|              | FROM_MAX_AGE              | Sends the <code>cache:max-age</code> value applied to the object, without evaluating the cache's duration.                 |   |
|              | FROM_VALUE                | Sends the value of the edge cache's duration.  |   |
|              | PASS_ORIGIN               | Sends the value of the origin's header, without evaluating the edge cache's duration.                                      |   |
| ttl          | string (duration)         | Sets the duration of the cache. Setting the value to 0 equates to a <code>no-cache</code> header that forces revalidation. | <code>allowBehavior</code> is <code>FROM_VALUE</code>   |
| send Headers | enum                      | Specifies the HTTP headers to include in the response to the client.   | <code>behavior</code> is <code>ALLOW</code>   |
|              | CACHE_CONTROL_AND_EXPIRES | Sends both <code>Cache-Control</code> and <code>Expires</code> header.   |   |
|              | CACHE_CONTROL             | Sends only the origin's <code>Cache-Control</code> header.   |   |
|              | EXPIRES                   | Sends only the origin's <code>Expires</code> header.   |   |
|              | PASS_ORIGIN               | Sends the same set of <code>Cache-Control</code> and <code>Expires</code> headers received from the origin.                |   |
| send Private | boolean                   | Adds a <code>Cache-Control: private</code> header to prevent objects from being cached in a shared caching proxy.          | <code>behavior</code> is either: <code>ALLOW</code> , <code>MUST_REVALIDATE</code> AND <code>sendHeaders</code> is not <code>EXPIRES</code> |

## dynamicWebContent

- **Property Manager name:** [Content Characteristics - Dynamic Web Content](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `dynamicWebContent` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

In conjunction with the `subCustomer` behavior, this optional behavior allows you to control how dynamic web content behaves for your subcustomers using [Akamai Cloud Embed](#).


| Option                           | Type    | Description  |
|----------------------------------|---------|--|
| <code>sureRoute</code>           | boolean | Optimizes how subcustomer traffic routes from origin to edge servers. See the <code>sureRoute</code> behavior for more information.                            |
| <code>prefetch</code>            | boolean | Allows subcustomer content to prefetch over HTTP/2.  |
| <code>realUser Monitoring</code> | boolean | Allows Real User Monitoring (RUM) to collect performance data for subcustomer content. See the <code>realUser Monitoring</code> behavior for more information. |
| <code>image Compression</code>   | boolean | Enables image compression for subcustomer content.   |



The Edge Image Converter offloads various image manipulation tasks to edge servers. This behavior specifies various predefined policies to apply.

| Option           | Type         | Description  | Requires          |
|------------------|--------------|--|-------------------|
| enabled          | boolean      | Enables the edge image conversion behavior.  |                   |
| failover         | boolean      | If the request results in a server error, enabling this forwards it to the origin.     |                   |
| usePolicy        | boolean      | Enables a specified set of image conversion policies.                                  |                   |
| policies         | object array | Specifies commands that when present or not in the query string release an error code. | usePolicy is true |
| policy Responses | enum         | Specifies the HTTP error code if any policies conditions match.                        | usePolicy is true |
|                  |              | <b>Supported values:</b><br>400 403 404 409  |                   |


## edgeLoadBalancingAdvanced

- **Property Manager name:** [Edge Load Balancing: Advanced Metadata](#) 
- **Behavior version:** The v2019-07-25 rule format supports the edgeLoadBalancingAdvanced behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This behavior implements customized Edge Load Balancing features. Contact Akamai Professional Services for help configuring it.

| Option      | Type   | Description                               |
|-------------|--------|---|
| description | string | A description of what the xml block does. |
| xml         | string | A block of Akamai XML metadata.           |

## edgeLoadBalancingDataCenter

- **Property Manager name:** [Edge Load Balancing: Data Center](#) 
- **Behavior version:** The v2019-07-25 rule format supports the edgeLoadBalancingDataCenter behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Edge Load Balancing module allows you to specify groups of data centers that implement load balancing, session persistence, and real-time dynamic failover. Enabling ELB routes requests contextually based on location, device, or network, along with optional rules you specify.

This behavior specifies details about a data center, and needs to be paired in the same rule with an [edgeLoadBalancingOrigin](#) behavior, which specifies its origin. An *origin* is an abstraction that helps group a logical set of a website or application. It potentially includes information about many data centers and cloud providers, as well as many end points or IP addresses for each data center. More than one data center can thus refer to the same origin.

| Option                           | Type         | Description  | Requires                            |
|----------------------------------|--------------|--|-------------------------------------|
| originId                         | string       | Corresponds to the <code>id</code> specified by the <a href="#">edgeLoadBalancingOrigin</a> behavior associated with this data center.   |                                     |
| description                      | string       | Provides a description for the ELB data center, for your own reference.  |                                     |
| hostname                         | string       | Specifies the data center's hostname.  |                                     |
| cookieName                       | string       | If using session persistence, this specifies the value of the cookie named in the corresponding <a href="#">edgeLoadBalancingOrigin</a> behavior's <code>cookie_name</code> option.                                    |                                     |
| enableFailover                   | boolean      | Allows you to specify failover rules.  |                                     |
| ip                               | string       | Specifies this data center's IP address.   | <code>enableFailover</code> is true |
| failoverRules                    | object array | Provides up to four failover rules to apply in the specified order.  | <code>enableFailover</code> is true |
| failoverRules[].failoverHostname | string       | The hostname of the data center to fail over to.   |                                     |
| failoverRules[].modifyRequest    | boolean      | Allows you to modify the request's hostname or path.   |                                     |
| failoverRules[].overrideHostname | boolean      | Overrides the request's hostname with the <code>failover_hostname</code> .   | <code>modifyRequest</code> is true  |
| failoverRules[].contextRoot      | string       | Specifies the path to use in the forwarding request, typically the root ( / ) when failing over to a different data center, or a full path such as <code>/static/error.html</code> when failing over to an error page. | <code>modifyRequest</code> is true  |
| failoverRules[].absolutePath     | boolean      | When enabled, interprets the path specified by <code>context_root</code> as an absolute server path, for example to reference a site-down page. Otherwise when disabled, the path is appended to the request.          | <code>modifyRequest</code> is true  |

## edgeLoadBalancingOrigin

- **Property Manager name:** [Edge Load Balancing: Origin Definition](#) <sup>🔗</sup>
- **Behavior version:** The `v2019-07-25` rule format supports the `edgeLoadBalancingOrigin` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Edge Load Balancing module allows you to implement groups of data centers featuring load balancing, session persistence, and real-time dynamic failover. Enabling ELB routes requests contextually based on location, device, or network, along with optional rules you specify.

This behavior specifies the data center's origin, and needs to be paired in the same rule with at least one [edgeLoadBalancingDataCenter](#) behavior, which provides details about a particular data center. An *origin* is an abstraction that helps group a logical set of a website or application. It potentially includes information about many data centers and cloud providers, as well as many end points or IP addresses for each data center. To specify an ELB origin, you need to have configured an [origin](#) behavior whose `type` is set to `elb_origin_group`.

| Option                                | Type    | Description  | Requires   |
|---------------------------------------|---------|--|--|
| <code>id</code>                       | string  | Specifies a unique descriptive string for this ELB origin. The value needs to match the <code>origin_id</code> specified by the <a href="#">edgeLoadBalancingDataCenter</a> behavior associated with this origin.  |  |
| <code>description</code>              | string  | Provides a description for the ELB origin, for your own reference.   |  |
| <code>hostname</code>                 | string  | Specifies the hostname associated with the ELB rule.   |  |
| <code>enableSessionPersistence</code> | boolean | Allows you to specify a cookie to pin the user's browser session to one data center. When disabled, ELB's default load balancing may send users to various data centers within the same session.                   |  |
| <code>cookieName</code>               | string  | This specifies the name of the cookie that marks users' persistent sessions. The accompanying <a href="#">edgeLoadBalancingDataCenter</a> behavior's <code>description</code> option specifies the cookie's value. | <code>enableSessionPersistence</code> is <code>true</code> |

## edgeOriginAuthorization

- **Property Manager name:** [Edge Server Identification](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `edgeOriginAuthorization` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allows the origin server to use a cookie to ensure requests from Akamai servers are genuine.

This behavior requires that you specify the cookie's domain name, so it is best to deploy within a match of the hostname. It does not work properly when the origin server accepts more than one hostname (for example, using virtual servers) that do not share the same top-level domain.

| Option                  | Type    | Description  |
|-------------------------|---------|--|
| <code>enabled</code>    | boolean | Enables the cookie-authorization behavior.   |
| <code>cookieName</code> | string  | Specifies the name of the cookie to use for authorization.   |
| <code>value</code>      | string  | Specifies the value of the authorization cookie.   |
| <code>domain</code>     | string  | Specify the cookie's domain, which needs to match the top-level domain of the <code>Host</code> header the origin server receives. |

## edgeRedirector

- **Property Manager name:** [Edge Redirector Cloudlet](#)
- **Behavior version:** The v2019-07-25 rule format supports the `edgeRedirector` behavior v3.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior enables the [Edge Redirector Cloudlet](#) application, which helps you manage large numbers of redirects. With Cloudlets available on your contract, choose **Your services** <> **Edge logic Cloudlets** to control the Edge Redirector within [Control Center](#). Otherwise use the [Cloudlets API](#) to configure it programmatically.

| Option                           | Type    | Description                                 |
|----------------------------------|---------|---|
| <code>enabled</code>             | boolean | Enables the Edge Redirector Cloudlet.       |
| <code>cloudletPolicy</code>      | object  | Specifies the Cloudlet policy as an object. |
| <code>cloudletPolicy.id</code>   | number  | Identifies the Cloudlet.                    |
| <code>cloudletPolicy.name</code> | string  | The Cloudlet's descriptive name.            |

## edgeScape

- **Property Manager name:** [Content Targeting \(EdgeScape\)](#)
- **Behavior version:** The v2019-07-25 rule format supports the `edgeScape` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

[EdgeScape](#) allows you to customize content based on the end user's geographic location or connection speed. When enabled, the edge server sends a special `X-Akamai-Edgescape` header to the origin server encoding relevant details about the end-user client as key-value pairs.

| Option               | Type    | Description   |
|----------------------|---------|---|
| <code>enabled</code> | boolean | When enabled, sends the <code>X-Akamai-Edgescape</code> request header to the origin. |

## edgeSideIncludes

- **Property Manager name:** [ESI \(Edge Side Includes\)](#)
- **Behavior version:** The v2019-07-25 rule format supports the `edgeSideIncludes` behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allows edge servers to process edge side include (ESI) code to generate dynamic content. To apply this behavior, you need to match on a `contentType`, `path`, or `filename`. Since this behavior requires more parsing time, you should

not apply it to pages that lack ESI code, or to any non-HTML content.

| Option          | Type         | Description  | Requires              |
|-----------------|--------------|--|-----------------------|
| enabled         | boolean      | Enables ESI processing.  |                       |
| enableViaHttp   | boolean      | Enable ESI only for content featuring the <code>Edge-control: dca=esi</code> HTTP response header.       |                       |
| passSetCookie   | boolean      | Allows edge servers to pass your origin server's cookies to the ESI processor.                           | enableViaHttp is true |
| passClientIp    | boolean      | Allows edge servers to pass the client IP header to the ESI processor.                                   | enableViaHttp is true |
| i18nStatus      | boolean      | Provides internationalization support for ESI.   | enableViaHttp is true |
| i18nCharset     | string array | Specifies the character sets to use when transcoding the ESI language, UTF-8 and ISO-8859-1 for example. | i18nStatus is true    |
| detectInjection | boolean      | Denies attempts to inject ESI code.  |                       |

## enhancedAkamaiProtocol

- **Property Manager name:** [Enhanced Akamai Protocol](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `enhancedAkamaiProtocol` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables the Enhanced Akamai Protocol, a suite of advanced routing and transport optimizations that increase your website's performance and reliability. It is only available to specific applications, and requires a special routing from edge to origin.

**Warning.** Disabling this behavior may significantly reduce a property's performance.

This behavior object does not support any options. Specifying the behavior enables it.

## edgeWorker

- **Property Manager name:** [EdgeWorkers](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `edgeWorker` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)



[EdgeWorkers](#) are JavaScript applications that allow you to manipulate your web traffic on edge servers outside of Property Manager behaviors, and deployed independently from your configuration's logic. This behavior applies an EdgeWorker to a set of edge requests.

| Option        | Type    | Description   |
|---------------|---------|---|
| enabled       | boolean | When enabled, applies specified EdgeWorker functionality to this rule's web traffic.  |
| edgeWorker Id | string  | Identifies the EdgeWorker application to apply to this rule's web traffic. You can use the <a href="#">EdgeWorkers API</a> to get this value. |

## enhancedProxyDetection

- **Property Manager name:** [Enhanced Proxy Detection with GeoGuard](#)
- **Behavior version:** The v2019-07-25 rule format supports the enhancedProxyDetection behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior allows you to apply proxy detection and location spoofing protection from Akamai's data provider, Geo Guard. Configure it to identify unwanted requests redirected from four types of proxy: anonymous VPN, public proxy, The Onion Router (Tor) exit node, and smart DNS proxy. Configure your edge content to deny or redirect requests, or allow them to pass through so that you can log and audit the traffic. This and the [epdForwardHeaderEnrichment](#) behavior work together and need to be included either in the same rule, or in the default one.

| Option                    | Type          | Description  | Requires                                  |
|---------------------------|---------------|--|---|
| enabled                   | boolean       | Applies GeoGuard proxy detection.  |   |
| enable Configuration Mode | enum          | Specifies how to field the proxy request.  |   |
|                           | BEST_PRACTICE | Apply a single action to the four different categories of traffic.   |   |
|                           | ADVANCED      | Configure them separately. Choose the latter only if you are thoroughly familiar with GeoGuard proxy detection. See <a href="#">Enhanced Proxy Detection with GeoGuard</a> for more information. |   |
| bestPractice Action       | enum          | Specifies how to field the proxy request.  | enable ConfigurationMode is BEST_PRACTICE |
|                           | ALLOW         | Allow the request.   |   |
|                           | DENY          | Deny the request.  |   |
|                           | REDIRECT      | Respond with a redirect.   |   |
| bestPractice Redirecturl  | string        | This specifies the URL to which to redirect requests.  | bestPracticeAction is REDIRECT            |
| detect Anonymous Vpn      | boolean       | This enables detection of requests from anonymous VPNs.  | enable ConfigurationMode is ADVANCED      |

| Option                         | Type     | Description  | Requires                              |
|--------------------------------|----------|--|---------------------------------------|
| detectAnonymousVpnAction       | enum     | Specifies how to field anonymous VPN requests.                                     | detectAnonymousVpn is true            |
|                                | ALLOW    | Allow the request.   |                                       |
|                                | DENY     | Deny the request.  |                                       |
|                                | REDIRECT | Respond with a redirect.   |                                       |
| detectAnonymousVpnRedirecturl  | string   | This specifies the URL to which to redirect anonymous VPN requests.                | detectAnonymousVpnAction is REDIRECT  |
| detectPublicProxy              | boolean  | This enables detection of requests from public proxies.                            | enableConfigurationMode is ADVANCED   |
| detectPublicProxyAction        | enum     | Specifies how to field public proxy requests.                                      | detectPublicProxy is true             |
|                                | ALLOW    | Allow the request.   |                                       |
|                                | DENY     | Deny the request.  |                                       |
|                                | REDIRECT | Respond with a redirect.   |                                       |
| detectPublicProxyRedirecturl   | string   | This specifies the URL to which to redirect public proxy requests.                 | detectPublicProxyAction is REDIRECT   |
| detectTorExitNode              | boolean  | This enables detection of requests from Tor exit nodes.                            | enableConfigurationMode is ADVANCED   |
| detectTorExitNodeAction        | enum     | This specifies whether to DENY , ALLOW , or REDIRECT requests from Tor exit nodes. | detectTorExitNode is true             |
|                                | ALLOW    | Allow the request.   |                                       |
|                                | DENY     | Deny the request.  |                                       |
|                                | REDIRECT | Respond with a redirect.   |                                       |
| detectTorExitNodeRedirecturl   | string   | This specifies the URL to which to redirect requests from Tor exit nodes.          | detectTorExitNodeAction is REDIRECT   |
| detectSmartDNSProxy            | boolean  | This enables detection of requests from smart DNS proxies.                         | enableConfigurationMode is ADVANCED   |
| detectSmartDNSProxyAction      | enum     | Specifies whether to DENY , ALLOW , or REDIRECT smart DNS proxy requests.          | detectSmartDNSProxy is true           |
|                                | ALLOW    | Allow the request.   |                                       |
|                                | DENY     | Deny the request.  |                                       |
|                                | REDIRECT | Respond with a redirect.   |                                       |
| detectSmartDNSProxyRedirecturl | string   | This specifies the URL to which to redirect DNS proxy requests.                    | detectSmartDNSProxyAction is REDIRECT |
| detectVpnDataCenter            | boolean  | This enables detection of requests from VPN data centers.                          | enableConfigurationMode is ADVANCED   |

| Option                         | Type                  | Description   | Requires   |
|--------------------------------|-----------------------|---|--|
| detectVpnDataCenterAction      | enum                  | This specifies whether to <code>DENY</code> , <code>ALLOW</code> , or <code>REDIRECT</code> requests from VPN data centers. | detectVpnDataCenter is <code>true</code>           |
|                                | <code>ALLOW</code>    | Allow the request.  |  |
|                                | <code>DENY</code>     | Deny the request.   |  |
|                                | <code>REDIRECT</code> | Respond with a redirect.  |  |
| detectVpnDataCenterRedirecturl | string                | This specifies the URL to which to redirect requests from VPN data centers.   | detectVpnDataCenterAction is <code>REDIRECT</code> |

## failAction

- **Property Manager name:** [Site Failover](#)✱
- **Behavior version:** The `v2019-07-25` rule format supports the `failAction` behavior v1.5.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies how to respond when the origin is not available: by serving stale content, by serving an error page, or by redirecting. To apply this behavior, you should match on an `originTimeout` or `matchResponseCode` .

| Option     | Type                       | Description  | Requires                           |
|------------|----------------------------|--|------------------------------------|
| enabled    | boolean                    | When enabled in case of a failure to contact the origin, the current behavior applies.   |                                    |
| actionType | enum                       | Specifies the basic action to take when there is a failure to contact the origin.  |                                    |
|            | <code>SERVE_STALE</code>   | Serves content that is already in the cache.   |                                    |
|            | <code>REDIRECT</code>      | Specifies a redirect action. (Use with these options: <code>redirectHostnameType</code> , <code>redirectHostname</code> , <code>redirectCustomPath</code> , <code>redirectPath</code> , <code>redirectMethod</code> , <code>modifyProtocol</code> , and <code>protocol</code> .)               |                                    |
|            | <code>RECREATED_CO</code>  | Serves alternate content from your network. (Use with these options: <code>contentHostname</code> , <code>contentCustomPath</code> , and <code>contentPath</code> .)   |                                    |
|            | <code>RECREATED_CEX</code> | Serves alternate content from an external network. (Use with these options: <code>cexHostname</code> , <code>cexCustomPath</code> , and <code>cexPath</code> .)  |                                    |
|            | <code>RECREATED_NS</code>  | Serves <a href="#">NetStorage</a> content. (Use with these options: <code>netStorageHostname</code> , <code>netStoragePath</code> , and <code>cpCode</code> .)   |                                    |
|            | <code>DYNAMIC</code>       | Allows you to serve dynamic SaaS content if SaaS acceleration is available on your contract. (Use with these options: <code>dynamicMethod</code> , <code>dynamicCustomPath</code> , <code>saasType</code> , <code>saasSuffix</code> , <code>saasRegex</code> , and <code>saasReplace</code> .) |                                    |
| saasType   | enum                       | Identifies the component of the request that identifies the SaaS dynamic fail action.  | actionType is <code>DYNAMIC</code> |
|            |                            | <b>Supported values:</b><br><div> <div>COOKIE</div> <div>HOSTNAME</div> </div> <div> <div>PATH</div> <div>QUERY_STRING</div> </div>  |                                    |

| Option               | Type  | Description  | Requires                          |
|----------------------|---|--|-----------------------------------|
| saasCnameEnabled     | boolean                                       | Specifies whether to use a CNAME chain to determine the hostname for the SaaS dynamic failaction.  | saasType is HOSTNAME              |
| saasCnameLevel       | number  | Specifies the number of elements in the CNAME chain backwards from the edge hostname that determines the hostname for the SaaS dynamic failaction.   | saasCnameEnabled is true          |
| saasCookie           | string<br>(allows <a href="#">variables</a> ) | Specifies the name of the cookie that identifies this SaaS dynamic failaction.   | saasType is COOKIE                |
| saasQueryString      | string<br>(allows <a href="#">variables</a> ) | Specifies the name of the query parameter that identifies this SaaS dynamic failaction.  | saasType is QUERY_STRING          |
| saasRegex            | string  | Specifies the substitution pattern (a Perl-compatible regular expression) that defines the SaaS dynamic failaction.  | actionType is DYNAMIC             |
| saasReplace          | string<br>(allows <a href="#">variables</a> ) | Specifies the replacement pattern that defines the SaaS dynamic failaction.  | actionType is DYNAMIC             |
| saasSuffix           | string<br>(allows <a href="#">variables</a> ) | Specifies the static portion of the SaaS dynamic failaction.   | actionType is DYNAMIC             |
| dynamicMethod        | enum  | Specifies the redirect method.   | actionType is DYNAMIC             |
|                      | SERVE_301                                     | A 301 redirect response.   |                                   |
|                      | SERVE_302                                     | A 302 redirect response.   |                                   |
|                      | SERVE_ALTERNATE                               | Serve an alternate response.   |                                   |
| dynamicCustomPath    | boolean                                       | Allows you to modify the original requested path.  | actionType is DYNAMIC             |
| dynamicPath          | string<br>(allows <a href="#">variables</a> ) | Specifies the new path.  | dynamicCustomPath is true         |
| redirectHostnameType | enum  | Whether to preserve or customize the hostname.   | actionType is REDIRECT            |
|                      | ORIGINAL                                      | Preserve the original hostname in the redirect.  |                                   |
|                      | ALTERNATE                                     | Specify a <code>redirectHostname</code> .  |                                   |
| redirectHostname     | string<br>(allows <a href="#">variables</a> ) | When the <code>actionType</code> is REDIRECT and the <code>redirectHostnameType</code> is ALTERNATE , this specifies the hostname for the redirect.  | redirectHostnameType is ALTERNATE |
| redirectCustomPath   | boolean                                       | Uses the <code>redirectPath</code> to customize a new path.  | actionType is REDIRECT            |
| redirectPath         | string<br>(allows <a href="#">variables</a> ) | Specifies a new path.  | redirectCustomPath is true        |
| redirectMethod       | enum  | Specifies the HTTP response code.  | actionType is REDIRECT            |
|                      |   | <b>Supported values:</b><br>301 302  |                                   |
| contentHostname      | string<br>(allows <a href="#">variables</a> ) | Specifies the static hostname for the alternate redirect.  | actionType is RECREATED_CO        |
| contentCustomPath    | boolean                                       | Specifies a custom redirect path.  | actionType is RECREATED_CO        |
| contentPath          | string<br>(allows <a href="#">variables</a> ) | Specifies a custom redirect path.  | contentCustomPath is true         |
| netStorageHostname   | object  | When the <code>actionType</code> is RECREATED_NS , specifies the <a href="#">NetStorage</a>  origin to serve the alternate content. Contact Akamai Professional Services for your NetStorage origin's <code>id</code> . | actionType is RECREATED_NS        |

| Option  | Type  | Description   | Requires   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|---|---|---|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| netStorage<br>Hostname.cpCode<br>List         | array   | A set of CP codes that apply to this storage group.   |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| netStorage<br>Hostname.download<br>DomainName | string  | Domain name from which content can be downloaded.   |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| netStorage<br>Hostname.id                     | number  | Unique identifier for the storage group.  |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| netStorage<br>Hostname.name                   | string  | Name of the storage group.  |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| netStorage<br>Hostname.upload<br>DomainName   | string  | Domain name used to upload content.   |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| netStoragePath                                | string<br>(allows <a href="#">variables</a> ) | When the <code>actionType</code> is <code>RECREATED_NS</code> , specifies the path for the <a href="#">Net Storage</a> <sup>↗</sup> request.  | <code>actionType</code> is <code>RECREATED_NS</code>   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| cexHostname                                   | string<br>(allows <a href="#">variables</a> ) | Specifies a hostname.   | <code>actionType</code> is <code>RECREATED_CEX</code>  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| cexCustomPath                                 | boolean                                       | Specifies a custom path.  | <code>actionType</code> is <code>RECREATED_CEX</code>  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| cexPath                                       | string<br>(allows <a href="#">variables</a> ) | Specifies a custom path.  | <code>cexCustomPath</code> is <code>true</code>  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| cpCode  | object  | Specifies a CP code for which to log errors for the NetStorage location.  | <code>actionType</code> is <code>RECREATED_NS</code>   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| cp<br>Code.description                        | string  | Additional description for the CP code.   |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| cpCode.id                                     | integer                                       | Unique identifier for each CP code.   |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| cpCode.name                                   | string  | The name of the CP code.  |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| cpCode.products                               | array   | The set of products the CP code is assigned to.   |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| statusCode                                    | enum  | Assigns a new HTTP status code to the failure response.   | <code>actionType</code> is <code>RECREATED_NS</code>   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|   |   | <b>Supported values:</b> <div><table><tr><td>100</td><td>102</td><td>122</td><td>201</td><td>203</td><td>205</td><td>207</td><td>400</td><td>402</td><td>404</td><td>406</td><td>408</td><td>410</td></tr><tr><td>101</td><td>103</td><td>200</td><td>202</td><td>204</td><td>206</td><td>226</td><td>401</td><td>403</td><td>405</td><td>407</td><td>409</td><td>411</td></tr></table></div> | 100  | 102 | 122 | 201 | 203 | 205 | 207 | 400 | 402 | 404 | 406 | 408 | 410 | 101 | 103 | 200 | 202 | 204 | 206 | 226 | 401 | 403 | 405 | 407 | 409 | 411 |  |
| 100   | 102   | 122   | 201  | 203 | 205 | 207 | 400 | 402 | 404 | 406 | 408 | 410 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 101   | 103   | 200   | 202  | 204 | 206 | 226 | 401 | 403 | 405 | 407 | 409 | 411 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| preserveQuery<br>String                       | boolean                                       | When using either <code>contentCustomPath</code> , <code>cexCustomPath</code> , <code>dynamicCustomPath</code> , or <code>redirectCustomPath</code> to specify a custom path, enabling this passes in the original request's query string as part of the path.  | <code>contentCustomPath</code> is <code>true</code><br>OR <code>cexCustomPath</code> is <code>true</code><br>OR <code>redirectCustomPath</code> is <code>true</code><br>OR <code>dynamicCustomPath</code> is <code>true</code> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| modifyProtocol                                | boolean                                       | Modifies the redirect's protocol using the value of the <code>protocol</code> field.  | <code>actionType</code> is <code>REDIRECT</code><br>OR <code>dynamicMethod</code> is either:<br><code>SERVE_301</code> ,<br><code>SERVE_302</code>   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| protocol                                      | enum  | When the <code>actionType</code> is <code>REDIRECT</code> and <code>modifyProtocol</code> is enabled, this specifies the redirect's protocol.   | <code>modifyProtocol</code> is <code>true</code>   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

| Option | Type | Description  | <a href="#">Requires</a> |
|--------|------|--|--------------------------|
|        |      | <b>Supported values:</b><br><div>HTTP      HTTPS</div> |                          |

## fastInvalidate

- **Property Manager name:** [Fast Invalidate \(Safe to remove\)](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the fastInvalidate behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Applies Akamai's *Fast Purge* feature to selected edge content, invalidating it within approximately five seconds. This behavior sends an `If-Modified-Since` request to the origin for subsequent requests, replacing it with origin content if its timestamp is more recent. Otherwise if the origin lacks a `Last-Modified` header, it sends a simple GET request. Note that this behavior does not simply delete content if more recent origin content is unavailable. See the [Fast Purge API](#) <sup>↗</sup> for an independent way to invalidate selected sets of content, and for more information on the feature.

| Option  | Type    | Description  |
|---------|---------|--|
| enabled | boolean | When enabled, forces a validation test for all edge content to which the behavior applies. |

## firstPartyMarketing


- **Property Manager name:** [Cloud Marketing Cloudlet \(Beta\)](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the firstPartyMarketing behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)



Enables the [Cloud Marketing Cloudlet](#) <sup>↗</sup>, which helps MediaMath customers collect usage data and place corresponding tags for use in online advertising. You can configure tags using either the Cloudlets Policy Manager application or the [Cloudlets API](#) <sup>↗</sup>. See also the [firstPartyMarketingPlus](#) behavior, which integrates better with both MediaMath and its partners. Both behaviors support the same set of options.

| Option                          | Type    | Description   | <a href="#">Requires</a> |
|---------------------------------|---------|---|--------------------------|
| enabled                         | boolean | Enables the Cloud Marketing Cloudlet.                           |                          |
| javascript<br>Insertion<br>Rule | enum    | Select how to insert the MediaMath JavaScript reference script. |                          |
|                                 | NEVER   | Specify this if inserting the script at the origin.             |                          |

| Option                  | Type   | Description  | Requires                                     |
|-------------------------|--------|--|--|
|                         | POLICY | Allow the Cloudlet policy to determine when to insert it.  |  |
|                         | ALWAYS | Insert it for all edge requests.   |  |
| cloudlet<br>Policy      | object | Identifies the Cloudlet policy.  | javaScript<br>Insertion<br>Rule is<br>POLICY |
| cloudlet<br>Policy.id   | number | Identifies the Cloudlet.   |  |
| cloudlet<br>Policy.name | string | The Cloudlet's descriptive name.   |  |
| mediaMath<br>Prefix     | string | Specify the URL path prefix that distinguishes Cloud Marketing requests from your other web traffic. Include the leading slash character, but no trailing slash. For example, if the path prefix is /mmath , and the request is for www.example.com/dir , the new URL is www.example.com/mmath/dir . |  |

## firstPartyMarketingPlus

- **Property Manager name:** [Cloud Marketing Plus Cloudlet \(Beta\)](#) 
- **Behavior version:** The v2019-07-25 rule format supports the firstPartyMarketingPlus behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables the [Cloud Marketing Plus Cloudlet](#) , which helps MediaMath customers collect usage data and place corresponding tags for use in online advertising. You can configure tags using either the Cloudlets Policy Manager application or the [Cloudlets API](#) . See also the [firstPartyMarketing](#) behavior, which integrates with MediaMath but not its partners. Both behaviors support the same set of options.

| Option                          | Type    | Description   | Requires                                     |
|---------------------------------|---------|---|--|
| enabled                         | boolean | Enables the Cloud Marketing Plus Cloudlet.                      |  |
| javaScript<br>Insertion<br>Rule | enum    | Select how to insert the MediaMath JavaScript reference script. |  |
|                                 | NEVER   | Specify this if inserting the script at the origin.             |  |
|                                 | POLICY  | Allow the Cloudlet policy to determine when to insert it.       |  |
|                                 | ALWAYS  | Insert it for all edge requests.                                |  |
| cloudlet<br>Policy              | object  | Identifies the Cloudlet policy.                                 | javaScript<br>Insertion<br>Rule is<br>POLICY |
| cloudlet<br>Policy.id           | number  | Identifies the Cloudlet.  |  |
| cloudlet<br>Policy.name         | string  | The Cloudlet's descriptive name.                                |  |

| Option              | Type   | Description  | Requires |
|---------------------|--------|--|----------|
| mediaMath<br>Prefix | string | Specify the URL path prefix that distinguishes Cloud Marketing requests from your other web traffic. Include the leading slash character, but no trailing slash. For example, if the path prefix is /mmath , and the request is for www.example.com/dir , the new URL is www.example.com/mmath/dir . |          |

## forwardRewrite

- **Property Manager name:** [Forward Rewrite Cloudlet](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the forwardRewrite behavior v3.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Forward Rewrite Cloudlet allows you to conditionally modify the forward path in edge content without affecting the URL that displays in the user's address bar. If Cloudlets are available on your contract, choose **Your services** <> **Edge logic Cloudlets** to control how this feature works within [Control Center](#) <sup>↗</sup>, or use the [Cloudlets API](#) <sup>↗</sup> to configure it programmatically.

| Option              | Type    | Description                                    |
|---------------------|---------|--|
| enabled             | boolean | Enables the Forward Rewrite Cloudlet behavior. |
| cloudletPolicy      | object  | Identifies the Cloudlet policy.                |
| cloudletPolicy.id   | number  | Identifies the Cloudlet.                       |
| cloudletPolicy.name | string  | The Cloudlet's descriptive name.               |

## frontEndOptimization


- **Property Manager name:** [Front-End Optimization \(FEO\)](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the frontEndOptimization behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior enables [Front End Optimization](#) <sup>↗</sup>, a suite of performance enhancements that accelerate page rendering and reduce download times, for example by *minifying* JavaScript and CSS.

| Option  | Type    | Description                                  |
|---------|---------|--|
| enabled | boolean | Enables the front-end optimization behavior. |



# g2oheader

- **Property Manager name:** [Signature Header Authentication](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `g2oheader` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The *signature header authentication* (g2o) security feature provides header-based verification of outgoing origin requests. Edge servers encrypt request data in a pre-defined header, which the origin uses to verify that the edge server processed the request. This behavior configures the request data, header names, encryption algorithm, and shared secret to use for verification.

| Option                            | Type                           | Description   | Requires                                 |
|-----------------------------------|--------------------------------|---|--|
| <code>enabled</code>              | boolean                        | Enables the g2o verification behavior.  |  |
| <code>data Header</code>          | string                         | Specifies the name of the header that contains the request data that needs to be encrypted.   |  |
| <code>signed Header</code>        | string                         | Specifies the name of the header containing encrypted request data.   |  |
| <code>encoding Version</code>     | enum                           | Specifies the version of the encryption algorithm as an integer from 1 through 5 .  |  |
|                                   |                                | <b>Supported values:</b><br>1 2 3 4 5   |  |
| <code>useCustom SignString</code> | boolean                        | When disabled, the encrypted string is based on the forwarded URL. If enabled, you can use <code>customSignString</code> to customize the set of data to encrypt. |  |
| <code>custom SignString</code>    | string array                   | Specifies the set of data to be encrypted as a combination of concatenated strings.   | <code>useCustomSignString is true</code> |
|                                   | <code>AK_METHOD</code>         | Incoming request method.  |  |
|                                   | <code>AK_SCHEME</code>         | Incoming request scheme (HTTP or HTTPS).  |  |
|                                   | <code>AK_HOSTHEADER</code>     | Incoming request hostname.  |  |
|                                   | <code>AK_DOMAIN</code>         | Incoming request domain.  |  |
|                                   | <code>AK_URL</code>            | Incoming request URL.   |  |
|                                   | <code>AK_PATH</code>           | Incoming request path.  |  |
|                                   | <code>AK_QUERY</code>          | Incoming request query string.  |  |
|                                   | <code>AK_FILENAME</code>       | Incoming request filename.  |  |
|                                   | <code>AK_EXTENSION</code>      | Incoming request filename extension.  |  |
|                                   | <code>AK_CLIENT_REAL_IP</code> | Incoming client IP.   |  |
| <code>secretKey</code>            | object array                   | Specifies the shared secret key.  |  |
| <code>nonce</code>                | string                         | Specifies the cryptographic <i>nonce</i> string.  |  |

# graphqlCaching

- **Property Manager name:** [GraphQL Caching](#)✎
- **Behavior version:** The v2019-07-25 rule format supports the graphqlCaching behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior configures how to cache GraphQL-based API traffic. Enable [caching](#) for your GraphQL API traffic, along with [allowPost](#) to cache POST responses. To configure REST API traffic, use the [rapid](#) behavior.

| Option                                     | Type                           | Description   |
|--|--------------------------------|---|
| enabled                                    | boolean                        | Enables GraphQL caching.  |
| cacheResponses<br>WithErrors               | boolean                        | When enabled, caches responses that include an error field at the top of the response body object. Disable this if your GraphQL server yields temporary errors with success codes in the 2xx range. |
| postRequest<br>ProcessingError<br>Handling | enum                           | Specify what happens if GraphQL query processing fails on POST requests.  |
|  | APPLY_<br>CACHING_<br>BEHAVIOR | If your GraphQL server does not allow mutations and subscriptions, this offloads requests.  |
|  | NO_STORE                       | Pass requests to the origin.  |
| operationsUrl<br>QueryParameter<br>Name    | string                         | Specifies the name of a query parameter that identifies requests as GraphQL queries.  |
| operationsJson<br>BodyParameter<br>Name    | string                         | The name of the JSON body parameter that identifies GraphQL POST requests.  |

# gzipResponse


- **Property Manager name:** [Last Mile Acceleration \(Gzip Compression\)](#)✎
- **Behavior version:** The v2019-07-25 rule format supports the gzipResponse behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Apply *gzip* compression to speed transfer time. This behavior applies best to text-based content such as HTML, CSS, and JavaScript, especially once files exceed about 10KB. Do not apply it to already compressed image formats, or to small files that would add more time to uncompress. To apply this behavior, you should match on [contentType](#) or the content's [cacheability](#) .

| Option   | Type | Description                         | Requires |
|----------|------|-------------------------------------|----------|
| behavior | enum | Specify when to compress responses. |          |

| Option             | Type            | Description   | Requires                    |
|--------------------|-----------------|---|-----------------------------|
|                    | ORIGIN_RESPONSE | Compress for clients that send an <code>Accept-Encoding: gzip</code> header.  |                             |
|                    | ALWAYS          | Always compress.  |                             |
|                    | NEVER           | Never compress.   |                             |
| enable Compression | boolean         | Enables compression for all objects, regardless of their size.  | behavior is ALWAYS          |
| threshold          | number          | Specifies the maximum size of uncompressed files up to 25 KB. This behavior then only compresses objects that exceed the threshold. | enable Compression is false |


## hdDataAdvanced

- **Property Manager name:** [HD Data Override: Advanced Metadata](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `hdDataAdvanced` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This behavior specifies Akamai XML metadata that can only be configured on your behalf by Akamai Professional Services. Unlike the [advanced](#) behavior, this may apply a different set of overriding metadata that executes in a post-processing phase.

| Option      | Type   | Description  |
|-------------|--------|--|
| description | string | Human-readable description of what the XML block does. |
| xml         | string | A block of Akamai XML metadata.                        |

## http2

- **Property Manager name:** [HTTP/2](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `http2` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables the HTTP/2 protocol, which reduces latency and improves efficiency. You can only apply this behavior if the property is marked as secure. See [Secure property requirements](#) for guidance.

This behavior object does not support any options. Specifying the behavior enables it.

## healthDetection

- **Property Manager name:** [Origin Health Detection](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the healthDetection behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Monitors the health of your origin server by tracking unsuccessful attempts to contact it. Use this behavior to keep end users from having to wait several seconds before a forwarded request times out, or to reduce requests on the origin server when it is unavailable.

When client requests are forwarded to the origin, the edge server tracks the number of attempts to connect to each IP address. It cycles through IP addresses in least-recently-tested order to avoid hitting the same one twice in a row. If the number of consecutive unsuccessful tests reaches a threshold you specify, the behavior identifies the address as faulty and stops sending requests. The edge server returns an error message to the end user or else triggers any [failAction](#) behavior you specify.

| Option            | Type              | Description  |
|-------------------|-------------------|--|
| retryCount        | number            | The number of consecutive connection failures that mark an IP address as faulty.   |
| retryInterval     | string (duration) | Specifies the amount of time the edge server will wait before trying to reconnect to an IP address it has already identified as faulty.  |
| maximumReconnects | number            | Specifies the maximum number of times the edge server will contact your origin server. If your origin is associated with several IP addresses, maximumReconnects effectively overrides the value of retryCount . |

## httpToHttpsUpgrade

- **Property Manager name:** [HTTP to HTTPS Upgrade](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the httpToHttpsUpgrade behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Upgrades an HTTP edge request to HTTPS for the remainder of the request flow. Enable this behavior only if your origin supports HTTPS, and if your [origin](#) behavior is configured with originCertsToHonor to verify SSL certificates.

This behavior object does not support any options. Specifying the behavior enables it.

## httpStrictTransportSecurity

- **Property Manager name:** [HTTP Strict Transport Security \(HSTS\)](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the httpStrictTransportSecurity behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Applies HTTP Strict Transport Security (HSTS), disallowing insecure HTTP traffic. Apply this to hostnames managed with Standard TLS or Enhanced TLS certificates.

| Option             | Type         | Description  | Requires                                     |
|--------------------|--------------|--|--|
| enable             | boolean      | Applies HSTS to this set of requests.  |  |
| maxAge             | enum         | Specifies the duration for which to apply HSTS for new browser connections.  |  |
|                    | ZERO_MINS    | This effectively disables HSTS, without affecting any existing browser connections.  |  |
|                    | TEN_MINS     | 10 minutes.  |  |
|                    | ONE_DAY      | 1 day.   |  |
|                    | ONE_MONTH    | 1 month.   |  |
|                    | THREE_MONTHS | 3 months.  |  |
|                    | SIX_MONTHS   | 6 months.  |  |
|                    | ONE_YEAR     | 1 year.  |  |
| includeSubDomains  | boolean      | When enabled, applies HSTS to all subdomains.  | maxAge is not ZERO_MINS                      |
| preload            | boolean      | When enabled, adds this domain to the browser's preload list. You still need to declare the domain at <a href="httpspreload.org">httpspreload.org</a> <sup>↗</sup> . | maxAge is not ZERO_MINS                      |
| redirect           | boolean      | When enabled, redirects all HTTP requests to HTTPS.  | maxAge is not ZERO_MINS                      |
| redirectStatusCode | enum         | Specifies a response code.   | maxAge is not ZERO_MINS AND redirect is true |
|                    |              | <b>Supported values:</b><br>301      302   |  |

## imOverride

- **Property Manager name:** [Image and Video Manager: Set Parameter](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the imOverride behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This specifies common query parameters that affect how [imageManager](#) transforms images, potentially overriding policy, width, format, or density request parameters. This also allows you to assign the value of one of the property's [rule tree variables](#) to one of Image and Video Manager's own policy variables.

| Option    | Type                                     | Description   | Requires                                   |
|-----------|--|---|--|
| override  | enum                                     | Selects the type of query parameter you want to set.  |  |
|           | POLICY                                   | For the name of the Image and Video Manager policy you want to apply.   |  |
|           | POLICY_VARIABLE                          | Specify that you want to set an Image and Video Manager policy variable from a <a href="#">rule tree variable</a> defined in the property.  |  |
|           | WIDTH                                    | A predefined width to constrain the image to.   |  |
|           | FORMAT                                   | For browser types.  |  |
|           | DPR                                      | For pixel density.  |  |
| typesel   | enum                                     | Specifies how to set a query parameter.   | override is not POLICY_VARIABLE            |
|           | VALUE                                    | Assign a specific value.  |  |
|           | VARIABLE                                 | Assign a Property Manager rule tree VARIABLE .  |  |
| formatvar | string ( <a href="#">variable name</a> ) | This selects the variable with the name of the browser you want to optimize images for. The variable specifies the same type of data as the format option below.                                    | override is FORMAT AND typesel is VARIABLE |
| format    | enum                                     | Specifies the type of the browser you want to optimize images for.  | override is FORMAT AND typesel is VALUE    |
|           | CHROME                                   | Google Chrome.  |  |
|           | IE                                       | Internet Explorer.  |  |
|           | SAFARI                                   | Apple Safari.   |  |
|           | GENERIC                                  | Generic.  |  |
| dprvar    | string ( <a href="#">variable name</a> ) | This selects the variable with the desired pixel density. The variable specifies the same type of data as the dpr option below.   | override is DPR AND typesel is VARIABLE    |
| dpr       | number                                   | Directly specifies the pixel density. The numeric value is a scaling factor of 1, representing normal density.  | override is DPR AND typesel is VALUE       |
| widthvar  | string ( <a href="#">variable name</a> ) | Selects the variable with the desired width. If the Image and Video Manager policy doesn't define that width, it serves the next largest width.   | override is WIDTH AND typesel is VARIABLE  |
| width     | number                                   | Sets the image's desired pixel width directly. If the Image Manager policy doesn't define that width, it serves the next largest width.   | override is WIDTH AND typesel is VALUE     |
| policyvar | string ( <a href="#">variable name</a> ) | This selects the variable with the desired Image and Video Manager policy name to apply to image requests. If there is no policy by that name, Image and Video Manager serves the image unmodified. | override is POLICY AND typesel is VARIABLE |

| Option             | Type  | Description   | Requires   |
|--------------------|---|---|--|
| policy             | string  | This selects the desired Image and Video Manager policy name directly. If there is no policy by that name, Image and Video Manager serves the image unmodified. | override is<br>POLICY<br>AND typesel<br>is VALUE |
| policyvar<br>Name  | string  | This selects the name of one of the variables defined in an Image and Video Manager policy that you want to replace with the property's rule tree variable.     | override is<br>POLICY_<br>VARIABLE               |
| policyvar<br>IMvar | string<br>( <a href="#">variable<br/>name</a> ) | This selects one of the property's rule tree variables to assign to the policyvarName variable within Image and Video Manager.                                  | override is<br>POLICY_<br>VARIABLE               |

## imageManager

- **Property Manager name:** [Image and Video Manager \(Images\)](#) <sup>+</sup>
- **Behavior version:** The v2019-07-25 rule format supports the imageManager behavior v1.6.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Optimizes images' size or file type for the requesting device. You can also use this behavior to generate API tokens to apply your own policies to matching images using the [Image and Video Manager API](#). To apply this behavior, you need to match on a [fileExtension](#). Once you apply Image and Video Manager to traffic, you can add the [advanced ImMatch](#) to ensure the behavior applies to the requests from the Image and Video Manager backend.

| Option                         | Type      | Description  | Requires |
|--------------------------------|-----------|--|----------|
| enabled                        | boolean   | Enable image management capabilities and generate a corresponding API token.   |          |
| resize                         | boolean   | Specify whether to scale down images to the maximum screen resolution, as determined by the rendering device's user agent. Note that enabling this may affect screen layout in unexpected ways.                  |          |
| applyBestFileType              | boolean   | Specify whether to convert images to the best file type for the requesting device, based on its user agent and the initial image file. This produces the smallest file size possible that retains image quality. |          |
| superCacheRegion               | enum      | Specifies a location for your site's heaviest traffic, for use in caching derivatives on edge servers.   |          |
|                                | US        | United States.   |          |
|                                | ASIA      | Asia.  |          |
|                                | AUSTRALIA | Australia.   |          |
|                                | EMEA      | Europe, Middle East, and Africa.   |          |
|                                | JAPAN     | Japan.   |          |
| cpCodeOriginal                 | object    | Assigns a CP code to track traffic and billing for original images that the Image and Video Manager has not modified.  |          |
| cpCode<br>Original.description | string    | Additional description for the CP code.  |          |
| cpCodeOriginal.id              | integer   | Unique identifier for each CP code.  |          |

| Option                        | Type    | Description   | Requires                       |
|-------------------------------|---------|---|--------------------------------|
| cpCodeOriginal.name           | string  | The name of the CP code.  |                                |
| cpCodeOriginal.products       | array   | The set of products the CP code is assigned to.   |                                |
| cpCodeTransformed             | object  | Assigns a separate CP code to track traffic and billing for derived images.   |                                |
| cpCodeTransformed.description | string  | Additional description for the CP code.   |                                |
| cpCodeTransformed.id          | integer | Unique identifier for each CP code.   |                                |
| cpCodeTransformed.name        | string  | The name of the CP code.  |                                |
| cpCodeTransformed.products    | array   | The set of products the CP code is assigned to.   |                                |
| advanced                      | boolean | Generates a custom <a href="#">Image and Video Manager API</a> token to apply a corresponding policy to this set of images. The token consists of a descriptive label (the <code>policyToken</code> ) concatenated with a property-specific identifier that's generated when you save the property. The API registers the token when you activate the property. |                                |
| policyToken                   | string  | Assign a prefix label to help match the policy token to this set of images, limited to 32 alphanumeric or underscore characters. If you don't specify a label, <i>default</i> becomes the prefix.   | advanced is <code>true</code>  |
| policyTokenDefault            | string  | Specify the default policy identifier, which is registered with the <a href="#">Image and Video Manager API</a> once you activate this property. The <code>advanced</code> option needs to be inactive.   | advanced is <code>false</code> |

## imageManagerVideo

- **Property Manager name:** [Image and Video Manager \(Videos\)](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `imageManagerVideo` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Optimizes videos managed by Image and Video Manager for the requesting device. You can also use this behavior to generate API tokens to apply your own policies to matching videos using the [Image and Video Manager API](#). To apply this behavior, you need to match on a [fileExtension](#).

| Option            | Type    | Description   | Requires |
|-------------------|---------|---|----------|
| enabled           | boolean | Applies Image and Video Manager's video optimization to the current content.  |          |
| resize            | boolean | When enabled, scales down video for smaller mobile screens, based on the device's User-Agent header.  |          |
| applyBestFileType | boolean | When enabled, automatically converts videos to the best file type for the requesting device. This produces the smallest file size that retains image quality, based on the user agent and the initial image file. |          |
| superCacheRegion  | enum    | To optimize caching, assign a region close to your site's heaviest traffic.   |          |
|                   | US      | United States.  |          |
|                   | ASIA    | Asia.   |          |



| Option                        | Type      | Description   | Requires          |
|-------------------------------|-----------|---|-------------------|
|                               | AUSTRALIA | Australia.  |                   |
|                               | EMEA      | Europe, Middle East, and Africa.  |                   |
|                               | JAPAN     | Japan.  |                   |
| cpCodeOriginal                | object    | Select the CP code for which to track Image and Video Manager video traffic. Use this along with cpCodeTransformed to track traffic to derivative video content.  |                   |
| cpCodeOriginal.description    | string    | Additional description for the CP code.   |                   |
| cpCodeOriginal.id             | integer   | Unique identifier for each CP code.   |                   |
| cpCodeOriginal.name           | string    | The name of the CP code.  |                   |
| cpCodeOriginal.products       | array     | The set of products the CP code is assigned to.   |                   |
| cpCodeTransformed             | object    | Select the CP code to identify derivative transformed video content.  |                   |
| cpCodeTransformed.description | string    | Additional description for the CP code.   |                   |
| cpCodeTransformed.id          | integer   | Unique identifier for each CP code.   |                   |
| cpCodeTransformed.name        | string    | The name of the CP code.  |                   |
| cpCodeTransformed.products    | array     | The set of products the CP code is assigned to.   |                   |
| advanced                      | boolean   | When disabled, applies a single standard policy based on your property name. Allows you to reference a rule-specific policyToken for videos with different match criteria.  |                   |
| policyToken                   | string    | Specifies a custom policy defined in the Image and Video Manager Policy Manager or the <a href="#">Image and Video Manager API</a> . The policy name can include up to 64 alphanumeric, dash, or underscore characters. | advanced is true  |
| policyTokenDefault            | string    | Specify the default policy identifier, which is registered with the <a href="#">Image and Video Manager API</a> once you activate this property.  | advanced is false |

## injectReferenceld

- **Property Manager name:** [Inject Reference ID](#)
- **Behavior version:** The v2019-07-25 rule format supports the injectReferenceld behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allows you to inject an Akamai reference ID, useful for troubleshooting, anywhere within the response body. With this feature enabled, any AKAM\_REF string you specify is replaced with a unique identifier for each response.

| Option      | Type    | Description                               |
|-------------|---------|---|
| referenceld | boolean | Enables injection of reference ID values. |

# inputValidation

- **Property Manager name:** [Input Validation Cloudlet](#)✱
- **Behavior version:** The v2019-07-25 rule format supports the inputValidation behavior v1.5.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Input Validation Cloudlet detects anomalous edge requests and helps mitigate repeated invalid requests. You can configure it using either the Cloudlets Policy Manager application, available within [Control Center](#) under **Your services <> Edge logic Cloudlets**, or the [Cloudlets API](#).


Use this behavior to specify criteria that identifies each unique end user, and optionally supplement the Input Validation policy with additional criteria your origin uses to identify invalid requests. Specify the threshold number of invalid requests that triggers a penalty, and the subsequent response. Also specify an ordinary failure response for those who have not yet met the threshold, which should not conflict with any other behavior that defines a failure response.

| Option                       | Type         | Description   | Requires                            |
|------------------------------|--------------|---|-------------------------------------|
| enabled                      | boolean      | Applies the Input Validation Cloudlet behavior.   |                                     |
| cloudletPolicy               | object       | Identifies the Cloudlet policy.   |                                     |
| cloudletPolicy.id            | number       | Identifies the Cloudlet.  |                                     |
| cloudletPolicy.name          | string       | The Cloudlet's descriptive name.  |                                     |
| label                        | string       | Distinguishes this Input Validation policy from any others within the same property.  |                                     |
| userIdentificationByCookie   | boolean      | When enabled, identifies users by the value of a cookie.  |                                     |
| userIdentificationKeyCookie  | string       | This specifies the cookie name whose value needs to remain constant across requests to identify a user.   | userIdentificationByCookie is true  |
| userIdentificationByIp       | boolean      | When enabled, identifies users by specific IP address. Do not enable this if you are concerned about DDoS attacks from many different IP addresses. |                                     |
| userIdentificationByHeaders  | boolean      | When enabled, identifies users by specific HTTP headers on GET or POST requests.  |                                     |
| userIdentificationKeyHeaders | string array | This specifies the HTTP headers whose combined set of values identify each end user.  | userIdentificationByHeaders is true |
| userIdentificationByParams   | boolean      | When enabled, identifies users by specific query parameters on GET or POST requests.  |                                     |
| userIdentificationKeyParams  | string array | This specifies the query parameters whose combined set of values identify each end user.  | userIdentificationByParams is true  |
| allowLargePostBody           | boolean      | Fails POST request bodies that exceed 16 KB when enabled, otherwise allows them to pass with no validation for policy compliance.                   |                                     |

| Option                               | Type                     | Description   | Requires  |
|--------------------------------------|--------------------------|---|---|
| resetOnValid                         | boolean                  | Upon receiving a valid request, enabling this resets the <code>penaltyThreshold</code> counter to zero. Otherwise, even those series of invalid requests that are interrupted by valid requests may trigger the <code>penaltyAction</code> .  |   |
| validateOnOriginWith                 | enum                     | For any validation that edge servers can't perform alone, this specifies additional validation steps based on how the origin identifies an invalid request. If a request is invalid, the origin can indicate this to the edge server.   |   |
|                                      | DISABLED                 | Specify if no additional validation is necessary.   |   |
|                                      | RESPONSE_CODE            | Use a response code.  |   |
|                                      | RESPONSE_CODE_AND_HEADER | Use a response code and header.   |   |
| validateOnOriginHeaderName           | string                   | If <code>validateOnOriginWith</code> is set to <code>RESPONSE_CODE_AND_HEADER</code> , this specifies the header name for a request that the origin identifies as invalid.  | <code>validateOnOriginWith</code> is <code>RESPONSE_CODE_AND_HEADER</code>                                      |
| validateOnOriginHeaderValue          | string                   | If <code>validateOnOriginWith</code> is set to <code>RESPONSE_CODE_AND_HEADER</code> , this specifies an invalid request's header value that corresponds to the <code>validateOnOriginHeaderName</code> .   | <code>validateOnOriginWith</code> is <code>RESPONSE_CODE_AND_HEADER</code>                                      |
| validateOnOriginResponseCode         | number                   | Unless <code>validateOnOriginWith</code> is <code>DISABLED</code> , this identifies the integer response code for requests the origin identifies as invalid.  | <code>validateOnOriginWith</code> is either: <code>RESPONSE_CODE</code> , <code>RESPONSE_CODE_AND_HEADER</code> |
| failure302Uri                        | string                   | Specifies the redirect link for invalid requests that have not yet triggered a penalty.   |   |
| penaltyThreshold                     | number                   | Specifies the number of invalid requests permitted before executing the <code>penaltyAction</code> .  |   |
| penaltyAction                        | enum                     | Once the <code>penaltyThreshold</code> of invalid requests is met, this specifies the response.   |   |
|                                      | REDIRECT_302             | A 302 redirect response.  |   |
|                                      | BLANK_403                | A 403 response with no body content.  |   |
|                                      | BRANDED_403              | A custom 403 response.  |   |
| penalty302Uri                        | string                   | Specifies the redirect link for end users who trigger the penalty.  | <code>penaltyAction</code> is <code>REDIRECT_302</code>   |
| penaltyNetStorage                    | object                   | Specifies the NetStorage account that serves out the penalty's static 403 response content. Details appear in an object featuring a <code>downloadDomainName</code> string member that identifies the NetStorage hostname, and an integer <code>cpCode</code> to track the traffic. | <code>penaltyAction</code> is <code>BRANDED_403</code>  |
| penaltyNetStorage.cpCodeList         | array                    | A set of CP codes that apply to this storage group.   |   |
| penaltyNetStorage.downloadDomainName | string                   | Domain name from which content can be downloaded.   |   |
| penaltyNetStorage.id                 | number                   | Unique identifier for the storage group.  |   |
| penaltyNetStorage.name               | string                   | Name of the storage group.  |   |
| penaltyNetStorage.uploadDomainName   | string                   | Domain name used to upload content.   |   |

| Option                     | Type          | Description  | Requires                     |
|----------------------------|---------------|--|------------------------------|
| penalty403NetStoragePath   | string        | Specifies the full path to the static 403 response content relative to the downloadDomainName in the penaltyNetStorage object. | penaltyAction is BRANDED_403 |
| penaltyBrandedDenyCacheTtl | number (5-30) | Specifies the penalty response's time to live in the cache, 5 minutes by default.  | penaltyAction is BRANDED_403 |

## instant

- **Property Manager name:** [Akamai Instant \(Prefetching\)](#) 
- **Behavior version:** The v2019-07-25 rule format supports the instant behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Instant feature allows you to prefetch content to the edge cache by adding link relation attributes to markup. For example:


```
xml <a href="page2.html" rel="Akamai-prefetch">Page 2</a>
```

Default link relation values are prefetch and Akamai-prefetch . Applies only to HTML elements that may specify an external file: <a> , <base> , <img> , <script> , <input> , <link> , <table> , <td> , or <th> . (For the latter three, some legacy browsers support a nonstandard background image attribute.)

This behavior provides an alternative to the prefetch and prefetchable behaviors, which allow you to configure more general prefetching behavior outside of markup.

| Option                    | Type         | Description  | Requires   |
|---------------------------|--------------|--|--|
| prefetchCacheable         | boolean      | When enabled, applies prefetching only to objects already set to be cacheable, for example using the caching behavior. Only applies to content with the tieredDistribution behavior enabled.   |  |
| prefetchNoStore           | boolean      | Allows otherwise non-cacheable no-store content to prefetch if the URL path ends with / to indicate a request for a default file, or if the extension matches the value of the prefetchNoStore Extensions option. Only applies to content with the sureRoute behavior enabled. |  |
| prefetchNoStoreExtensions | string array | Specifies a set of file extensions for which the prefetchNoStore option is allowed.  | prefetchNoStore is true                                    |
| prefetchHtml              | boolean      | Allows edge servers to prefetch additional HTML pages while pages that link to them are being delivered. This only applies to links from <a> or <link> tags with the appropriate link relation attribute.  | prefetchCacheable is true<br>OR<br>prefetchNoStore is true |
| customLinkRelations       | string array | Specify link relation values that activate the prefetching behavior. For example, specifying fetch allows you to use shorter rel="fetch" markup.   | prefetchHtml is true                                       |


# instantConfig



- **Property Manager name:** [InstantConfig](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `instantConfig` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Multi-Domain Configuration, also known as *InstantConfig*, allows you to apply property settings to all incoming hostnames based on a DNS lookup, without explicitly listing them among the property's hostnames.


| Option               | Type    | Description                         |
|----------------------|---------|-------------------------------------|
| <code>enabled</code> | boolean | Enables the InstantConfig behavior. |

## largeFileOptimization

- **Property Manager name:** [Large File Optimization](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `largeFileOptimization` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Large File Optimization](#)  feature improves performance and reliability when delivering large files. You need this behavior for objects larger than 1.8GB, and it's recommended for anything over 100MB. You should apply it only to the specific content to be optimized, such as a download directory's `.gz` files, and enable the `useVersioning` option while enforcing your own filename versioning policy. Note that it is best to use [NetStorage](#)  for objects larger than 1.8GB.

See also the [largeFileOptimizationAdvanced](#) behavior, which provides additional options for to configure partial object caching and HTTP/2 prefetching.

| Option                                  | Type                                    | Description  | <a href="#">Requires</a> |
|---|---|--|--------------------------|
| <code>enabled</code>                    | boolean                                 | Enables the file optimization behavior.  |                          |
| <code>enablePartialObjectCaching</code> | enum                                    | Specifies whether to cache partial objects.  |                          |
|   | <code>PARTIAL_OBJECT_CACHING</code>     | Allows <i>partial-object caching</i> , which always applies to large objects served from <a href="#">NetStorage</a>  . To enable this, the origin needs to support byte range requests. |                          |
|   | <code>NON_PARTIAL_OBJECT_CACHING</code> | Caches entire objects.   |                          |

| Option         | Type    | Description   | Requires   |
|----------------|---------|---|--|
| minimum Size   | string  | Optimization only applies to files larger than this, expressed as a number suffixed with a unit string such as MB or GB .   | enablePartialObjectCaching is PARTIAL_OBJECT_CACHING |
| maximum Size   | string  | Optimization does not apply to files larger than this, expressed as a number suffixed with a unit string such as MB or GB .   | enablePartialObjectCaching is PARTIAL_OBJECT_CACHING |
| use Versioning | boolean | When enablePartialObjectCaching is set to PARTIAL_OBJECT_CACHING , enabling this option signals your intention to vary filenames by version, strongly recommended to avoid serving corrupt content when chunks come from different versions of the same file. | enablePartialObjectCaching is PARTIAL_OBJECT_CACHING |

## largeFileOptimizationAdvanced

- **Property Manager name:** [Large File Optimization \(Advanced\)](#)
- **Behavior version:** The v2019-07-25 rule format supports the largeFileOptimizationAdvanced behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

The [Large File Optimization](#) feature improves performance and reliability when delivering large files. You need this behavior for objects larger than 1.8GB, and it's recommended for anything over 100MB. You should apply it only to the specific content to be optimized, such as a download directory's .gz files. Note that it is best to use [NetStorage](#) for objects larger than 1.8GB.

This advanced behavior provides additional HTTP/2 options not present in the [largeFileOptimization](#) behavior.

| Option                 | Type    | Description   |
|------------------------|---------|---|
| enabled                | boolean | Enables the file optimization behavior.   |
| objectSize             | string  | Specifies the size of the file at which point to apply partial object (POC) caching. Append a numeric value with a MB or GB suffix. |
| fragmentSize           | enum    | Specifies the size of each fragment used for partial object caching.  |
|                        |         | <b>Supported values:</b><br>FOUR_MB      HALF_MB      ONE_MB      TWO_MB  |
| prefetchDuring Request | number  | The number of POC fragments to prefetch during the request.   |
| prefetchAfter Request  | number  | The number of POC fragments to prefetch after the request.  |

- **Property Manager name:** [mPulse](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `mPulse` behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

[mPulse](#) provides high-level performance analytics and predictive recommendations based on real end user data. See the [mPulse Quick Start](#) to set up mPulse on your website.

| Option                      | Type    | Description   |
|-----------------------------|---------|---|
| <code>enabled</code>        | boolean | Applies performance monitoring to this behavior's set of content.   |
| <code>requirePci</code>     | boolean | Suppresses gathering metrics for potentially sensitive end-user interactions. Enabling this omits data from some older browsers.  |
| <code>apiKey</code>         | string  | This generated value uniquely identifies sections of your website for you to analyze independently. To access this value, see <a href="#">Enable mPulse in Property Manager</a> .   |
| <code>bufferSize</code>     | string  | Allows you to override the browser's default (150) maximum number of reported performance timeline entries.   |
| <code>configOverride</code> | string  | A JSON string representing a configuration object passed to the JavaScript library under which mPulse runs. It corresponds at run-time to the <code>window.BOOMR_config</code> object. For example, this turns on monitoring of Single Page App frameworks: <code>"{"history": {"enabled": true, "auto": true}}"</code> . See <a href="#">Configuration Overrides</a> for more information. |

## limitBitRate

- **Property Manager name:** [Bit Rate Limiting](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `limitBitRate` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Control the rate at which content serves out to end users, optionally varying the speed depending on the file size or elapsed download time. Each bit rate specified in the `bitrateTable` array corresponds to a `thresholdTable` entry that activates it. You can use this behavior to prevent media downloads from progressing faster than they are viewed, for example, or to differentiate various tiers of end-user experience. To apply this behavior, you should match on a `contentType`, `path`, or `filename`.

| Option                                   | Type         | Description  |
|--|--------------|--|
| <code>enabled</code>                     | boolean      | When enabled, activates the bit rate limiting behavior.  |
| <code>bitrateTable</code>                | object array | Specifies a download rate that corresponds to a <code>thresholdTable</code> entry. The bit rate appears as a two-member object consisting of a numeric <code>bitrateValue</code> and a <code>bitrateUnit</code> string, with allowed values of <code>Kbps</code> , <code>Mbps</code> , and <code>Gbps</code> . |
| <code>bitrateTable[].bitrateValue</code> | number       | The numeric indicator of the download rate.  |
| <code>bitrateTable[].bitrateUnit</code>  | enum         | The unit of measurement, either <code>KBPS</code> , <code>MBPS</code> , or <code>GBPS</code> .   |

| Option                          | Type         | Description  |
|---------------------------------|--------------|--|
|                                 |              | <b>Supported values:</b><br><div> <div>GBPS</div> <div>MBPS</div> <div>KBPS</div> <div>MBPS</div> </div>   |
| thresholdTable                  | object array | Specifies the minimum size of the file or the amount of elapsed download time before applying the bit rate limit from the corresponding <code>bitrateTable</code> entry. The threshold appears as a two-member object consisting of a numeric <code>thresholdValue</code> and <code>thresholdUnit</code> string, with allowed values of <code>SECONDS</code> or <code>BYTES</code> . |
| thresholdTable[].thresholdValue | number       | The numeric indicator of the minimum file size or elapsed download time.   |
| thresholdTable[].thresholdUnit  | enum         | The unit of measurement, either <code>SECONDS</code> of the elapsed download time, or <code>BYTES</code> of the file size.   |
|                                 |              | <b>Supported values:</b><br><div> <div>BYTES</div> <div>SECONDS</div> </div>   |

## manifestPersonalization

- **Property Manager name:** [Manifest Personalization](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `manifestPersonalization` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allows customers who use the Adaptive Media Delivery product to enhance content based on the capabilities of each end user's device. This behavior configures a *manifest* for both HLS Live and on-demand streaming. For more information, see [Adaptive Media Delivery](#).

| Option                   | Type          | Description  | Requires                                     |
|--------------------------|---------------|--|--|
| enabled                  | boolean       | Enables the Manifest Personalization feature.  |  |
| hlsEnabled               | boolean       | Allows you to customize the HLS master manifest that's sent to the requesting client.  |  |
| hlsMode                  | enum          | Applies with <code>hlsEnabled</code> on.   | <code>hlsEnabled</code> is <code>true</code> |
|                          | BEST_PRACTICE | Specify the default best practice mode.  |  |
|                          | CUSTOM        | Specify a custom manifest.   |  |
| hlsPreferredBitrate      | string        | Sets the preferred bit rate in Kbps. This causes the media playlist specified in the <code>#EXT-X-STREAM-INF</code> tag that most closely matches the value to list first. All other playlists maintain their current position in the manifest.          | <code>hlsMode</code> is <code>CUSTOM</code>  |
| hlsFilterInBitrates      | string        | Specifies a comma-delimited set of preferred bit rates, such as <code>100,200,400</code> . Playlists specified in the <code>#EXT-X-STREAM-INF</code> tag with bit rates outside of any of those values by up to 100 Kbps are excluded from the manifest. | <code>hlsMode</code> is <code>CUSTOM</code>  |
| hlsFilterInBitrateRanges | string        | Specifies a comma-delimited set of bit rate ranges, such as <code>100-400,1000-4000</code> . Playlists specified in the <code>#EXT-X-STREAM-INF</code> tag with bit rates outside of any of those ranges are excluded from the manifest.                 | <code>hlsMode</code> is <code>CUSTOM</code>  |



| Option                     | Type         | Description   | Requires                     |
|----------------------------|--------------|---|------------------------------|
| hlsQueryParamEnabled       | boolean      | Specifies query parameters for the HLS master manifest to customize the manifest's content. Any settings specified in the query string override those already configured in Property Manager. | hlsEnabled is true           |
| hlsQueryParamSecretKey     | object array | Specifies a primary key as a token to accompany the request.  | hlsQueryParamEnabled is true |
| hlsQueryParamTransitionKey | object array | Specifies a transition key as a token to accompany the request.   | hlsQueryParamEnabled is true |
| hlsShowAdvanced            | boolean      | Allows you to configure advanced settings.  | hlsEnabled is true           |
| hlsEnableDebugHeaders      | boolean      | Includes additional <code>Akamai-Manifest-Personalization</code> and <code>Akamai-Manifest-Personalization-Config-Source</code> debugging headers.  | hlsShowAdvanced is true      |

## manifestRerouting

- **Property Manager name:** [Manifest Rerouting](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `manifestRerouting` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior works with [adScalerCircuitBreaker](#). It delegates parts of the media delivery workflow, like ad insertion, to other technology partners. Akamai reroutes manifest file requests to partner platforms for processing prior to being delivered. Rerouting simplifies the workflow and improves the media streaming experience.

| Option   | Type                         | Description   |
|----------|------------------------------|---|
| partner  | enum                         | Set this value to <code>adobe_primetime</code> , which is an external technology partner that provides value added offerings, like advertisement integration, to the requested media objects. |
|          | <code>adobe_primetime</code> | This is currently the only supported value.   |
| username | string                       | The user name for your Adobe Primetime account.   |

## mediaAccelerationQuicOptout

- **Property Manager name:** [Media Acceleration \(QUIC Protocol\) Opt-Out](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `mediaAccelerationQuicOptout` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)

- **Access:** [Read-write](#)

When enabled, disables use of QUIC protocol for this set of accelerated media content.

This behavior object does not support any options. Specifying the behavior enables it.

## manualServerPush

- **Property Manager name:** [Manual Server Push](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `manualServerPush` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

With the `http2` behavior enabled, this loads a specified set of objects into the client browser's cache. To apply this behavior, you should match on a `path` or `filename`.

| Option                      | Type         | Description   |
|-----------------------------|--------------|---|
| <code>serverpushlist</code> | string array | Specifies the set of objects to load into the client browser's cache over HTTP2. Each value in the array represents a hostname and full path to the object, such as <code>www.example.com/js/site.js</code> . |


## mediaAcceleration

- **Property Manager name:** [Media Acceleration](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `mediaAcceleration` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables Accelerated Media Delivery for this set of requests.

| Option               | Type    | Description                 |
|----------------------|---------|-----------------------------|
| <code>enabled</code> | boolean | Enables Media Acceleration. |


## mediaClient


- **Property Manager name:** [Media Client](#) 
- **Behavior version:** The v2019-07-25 rule format supports the `mediaClient` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables client-side reporting through analytics beacon requests.

| Option                        | Type    | Description                               |
|-------------------------------|---------|---|
| <code>enabled</code>          | boolean | Enables client-side download analytics.   |
| <code>beaconId</code>         | string  | Specifies the ID of data source's beacon. |
| <code>useHybridHttpUdp</code> | boolean | Enables the hybrid HTTP/UDP protocol.     |


## mediaFileRetrievalOptimization

- **Property Manager name:** [Media File Retrieval Optimization](#) 
- **Behavior version:** The v2019-07-25 rule format supports the `mediaFileRetrievalOptimization` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Media File Retrieval Optimization (MFRO) speeds the delivery of large media files by relying on caches of partial objects. You should use it for files larger than 100 MB. It's required for files larger than 1.8 GB, and works best with [NetStorage](#) . To apply this behavior, you should match on a [fileExtension](#) .

| Option               | Type    | Description                                  |
|----------------------|---------|--|
| <code>enabled</code> | boolean | Enables the partial-object caching behavior. |

## mediaOriginFailover

- **Property Manager name:** [Media Origin Failover](#) 
- **Behavior version:** The v2019-07-25 rule format supports the `mediaOriginFailover` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies how edge servers respond when the origin is unresponsive, or suffers from server or content errors. You can specify how many times to retry, switch to a backup origin hostname, or configure a redirect.

| Option | Type | Description | <a href="#">Requires</a> |
|--------|------|-------------|--------------------------|
|--------|------|-------------|--------------------------|

| Option                               | Type                                  | Description   | Requires  |
|--------------------------------------|---------------------------------------|---|---|
| detectOriginUnresponsive             | boolean                               | Allows you to configure what happens when the origin is unresponsive. |   |
| originUnresponsiveDetectionLevel     | enum                                  | Specify the level of response to slow origin connections.             | detectOriginUnresponsive is true  |
|                                      | AGGRESSIVE                            | Aggressive response.  |   |
|                                      | CONSERVATIVE                          | Conservative response.  |   |
|                                      | MODERATE                              | Moderate response.  |   |
| originUnresponsiveBlacklistOriginIp  | boolean                               | Enabling this blacklists the origin's IP address.                     | detectOriginUnresponsive is true  |
| originUnresponsiveBlacklistWindow    | enum                                  | This sets the delay before blacklisting an IP address.                | originUnresponsiveBlacklistOriginIp is true   |
|                                      | TEN_S                                 | 10 seconds.   |   |
|                                      | THIRTY_S                              | 30 seconds.   |   |
| originUnresponsiveRecovery           | enum                                  | This sets the recovery option.  | detectOriginUnresponsive is true  |
|                                      | RETRY_X_TIMES                         | Retry.  |   |
|                                      | SWITCH_TO_BACKUP_ORIGIN               | Switch to a backup origin.  |   |
|                                      | REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION | Redirect to a different origin.                                       |   |
| originUnresponsiveRetryLimit         | enum                                  | Sets how many times to retry.   | originUnresponsiveRecovery is RETRY_X_TIMES   |
|                                      |                                       | <b>Supported values:</b><br>ONE THREE                                 |   |
| originUnresponsiveBackupHost         | string                                | This specifies the origin hostname.                                   | originUnresponsiveRecovery is SWITCH_TO_BACKUP_ORIGIN   |
| originUnresponsiveAlternateHost      | string                                | This specifies the redirect's destination hostname.                   | originUnresponsiveRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION   |
| originUnresponsiveModifyRequestPath  | boolean                               | Modifies the request path.  | originUnresponsiveRecovery is SWITCH_TO_BACKUP_ORIGIN<br>OR originUnresponsiveRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION |
| originUnresponsiveModifiedPath       | string                                | This specifies the path to form the new URL.                          | originUnresponsiveModifyRequestPath is true   |
| originUnresponsiveIncludeQueryString | boolean                               | Enabling this includes the original set of query parameters.          | originUnresponsiveModifyRequestPath is true   |
| originUnresponsiveRedirectMethod     | enum                                  | Specifies the redirect response code.                                 | originUnresponsiveRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION   |
|                                      |                                       | <b>Supported values:</b><br>301 302                                   |   |
| originUnresponsiveChangeProtocol     | boolean                               | This allows you to change the request protocol.                       | originUnresponsiveRecovery is SWITCH_TO_BACKUP_ORIGIN<br>OR originUnresponsiveRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION |
| originUnresponsiveProtocol           | enum                                  | Specifies which protocol to use.                                      | originUnresponsiveChangeProtocol is true  |

| Option                              | Type                                  | Description  | Requires  |
|-------------------------------------|---------------------------------------|--|---|
|                                     |                                       | <b>Supported values:</b><br><div>HTTP      HTTPS</div>                                 |   |
| detectOriginUnavailable             | boolean                               | Allows you to configure failover settings when the origin server responds with errors. |   |
| originUnavailableDetectionLevel     | enum                                  | Specify RESPONSE_CODES , the only available option.                                    | detectOriginUnavailable is true   |
|                                     | RESPONSE_CODES                        | This is the only value currently available.  |   |
| originUnavailableResponseCodes      | string array                          | Specifies the set of response codes identifying when the origin responds with errors.  | detectOriginUnavailable is true   |
| originUnavailableBlacklistOriginIp  | boolean                               | Enabling this blacklists the origin's IP address.                                      | detectOriginUnavailable is true   |
| originUnavailableBlacklistWindow    | enum                                  | This sets the delay before blacklisting an IP address.                                 | originUnavailableBlacklistOriginIp is true  |
|                                     | TEN_S                                 | 10 seconds.  |   |
|                                     | THIRTY_S                              | 30 seconds.  |   |
| originUnavailableRecovery           | enum                                  | This sets the recovery option.   | detectOriginUnavailable is true   |
|                                     | RETRY_X_TIMES                         | Retry.   |   |
|                                     | SWITCH_TO_BACKUP_ORIGIN               | Switch to a backup origin.   |   |
|                                     | REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION | Redirect to a different origin.  |   |
| originUnavailableRetryLimit         | enum                                  | Sets how many times to retry.  | originUnavailableRecovery is RETRY_X_TIMES  |
|                                     |                                       | <b>Supported values:</b><br><div>ONE      THREE</div>                                  |   |
| originUnavailableBackupHost         | string                                | This specifies the origin hostname.  | originUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN  |
| originUnavailableAlternateHost      | string                                | This specifies the redirect's destination hostname.                                    | originUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION  |
| originUnavailableModifyRequestPath  | boolean                               | Modifies the request path.   | originUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN<br>OR originUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION |
| originUnavailableModifiedPath       | string                                | This specifies the path to form the new URL.   | originUnavailableModifyRequestPath is true  |
| originUnavailableIncludeQueryString | boolean                               | Enabling this includes the original set of query parameters.                           | originUnavailableModifyRequestPath is true  |
| originUnavailableRedirectMethod     | enum                                  | Specifies either a redirect response code.   | originUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION  |
|                                     |                                       | <b>Supported values:</b><br><div>301      302</div>                                    |   |
| originUnavailableChangeProtocol     | boolean                               | Modifies the request protocol.   | originUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN<br>OR originUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION |

| Option                              | Type                                  | Description  | <a href="#">Requires</a>  |
|-------------------------------------|---------------------------------------|--|---|
| originUnavailableProtocol           | enum                                  | Specifies either the HTTP or HTTPS protocol.                                   | originUnavailableChangeProtocol is true   |
|                                     |                                       | <b>Supported values:</b><br><div>HTTP      HTTPS</div>                         |   |
| detectObjectUnavailable             | boolean                               | Allows you to configure failover settings when the origin has content errors.  |   |
| objectUnavailableDetectionLevel     | enum                                  | Specify RESPONSE_CODES , the only available option.                            | detectObjectUnavailable is true   |
|                                     | RESPONSE_CODES                        | This is the only value currently available.                                    |   |
| objectUnavailableResponseCodes      | string array                          | Specifies the set of response codes identifying when there are content errors. | detectObjectUnavailable is true   |
| objectUnavailableBlacklistOriginIp  | boolean                               | Enabling this blacklists the origin's IP address.                              | detectObjectUnavailable is true   |
| objectUnavailableBlacklistWindow    | enum                                  | This sets the delay before blacklisting an IP address.                         | objectUnavailableBlacklistOriginIp is true  |
|                                     | TEN_S                                 | 10 seconds.  |   |
|                                     | THIRTY_S                              | 30 seconds.  |   |
| objectUnavailableRecovery           | enum                                  | This sets the recovery option.   | detectObjectUnavailable is true   |
|                                     | RETRY_X_TIMES                         | Retry.   |   |
|                                     | SWITCH_TO_BACKUP_ORIGIN               | Switch to a backup origin.   |   |
|                                     | REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION | Redirect to a different origin.  |   |
| objectUnavailableRetryLimit         | enum                                  | Sets how many times to retry.  | objectUnavailableRecovery is RETRY_X_TIMES  |
|                                     |                                       | <b>Supported values:</b><br><div>ONE      THREE</div>                          |   |
| objectUnavailableBackupHost         | string                                | This specifies the origin hostname.  | objectUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN  |
| objectUnavailableAlternateHost      | string                                | This specifies the redirect's destination hostname.                            | objectUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION  |
| objectUnavailableModifyRequestPath  | boolean                               | Enabling this allows you to modify the request path.                           | objectUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN<br>OR objectUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION |
| objectUnavailableModifiedPath       | string                                | This specifies the path to form the new URL.                                   | objectUnavailableModifyRequestPath is true  |
| objectUnavailableIncludeQueryString | boolean                               | Enabling this includes the original set of query parameters.                   | objectUnavailableModifyRequestPath is true  |
| objectUnavailableRedirectMethod     | enum                                  | Specifies a redirect response code.  | objectUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION  |
|                                     |                                       | <b>Supported values:</b><br><div>301      302</div>                            |   |

| Option                              | Type     | Description                                       | Requires  |
|-------------------------------------|----------|---|---|
| objectUnavailable<br>ChangeProtocol | boolean  | Changes the request protocol.                     | objectUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN<br>OR objectUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION |
| objectUnavailable<br>Protocol       | enum     | Specifies either the HTTP or HTTPS protocol.      | objectUnavailableChangeProtocol is true   |
|                                     |          | <b>Supported values:</b><br>HTTP      HTTPS       |   |
| clientResponse<br>Code              | string   | Specifies the response code served to the client. |   |
| cacheError<br>Response              | boolean  | When enabled, caches the error response.          |   |
| cacheWindow                         | enum     | This sets error response's TTL.                   | cacheErrorResponse is true  |
|                                     | ONE_S    | 1 second.   |   |
|                                     | TEN_S    | 10 seconds.                                       |   |
|                                     | THIRTY_S | 30 seconds.                                       |   |

## mobileSdkPerformance

- **Property Manager name:** [Mobile App Performance SDK](#)
- **Behavior version:** The v2019-07-25 rule format supports the mobileSdkPerformance behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Mobile Application Performance software development kit allows you to optimize native iOS and Android apps, effectively extending Akamai's intelligent edge platform's advantages to mobile devices operation in poor network conditions. This behavior enables the SDK's features for this set of requests.

| Option                     | Type    | Description   |
|----------------------------|---------|---|
| enabled                    | boolean | Enables the Mobile App Performance SDK.                                 |
| secondaryMultipathToOrigin | boolean | When enabled, sends secondary multi-path requests to the origin server. |

## modifyIncomingRequestHeader

- **Property Manager name:** [Modify Incoming Request Header](#)
- **Behavior version:** The v2019-07-25 rule format supports the modifyIncomingRequestHeader behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)

- **Access:** [Read-write](#)

Modify, add, remove, or pass along specific request headers coming upstream from the client.

Depending on the type of `action` you want to perform, specify the corresponding *standard* header name, or a `customHeaderName` if the standard name is set to `OTHER`. The `headerValue` serves as a match condition when the action is `DELETE` or `MODIFY`, and the `newHeaderValue` applies when the action is `ADD` or `MODIFY`.

See also [modifyIncomingResponseHeader](#), [modifyOutgoingRequestHeader](#), and [modifyOutgoingResponseHeader](#).

| Option                                | Type                           | Description   | <a href="#">Requires</a>                   |
|---------------------------------------|--------------------------------|---|--|
| <code>action</code>                   | enum                           | Either <code>ADD</code> , <code>DELETE</code> , <code>MODIFY</code> , or <code>PASS</code> incoming HTTP request headers. |  |
|                                       | <code>ADD</code>               | Add the header.   |  |
|                                       | <code>DELETE</code>            | Delete the header.  |  |
|                                       | <code>MODIFY</code>            | Modify the header.  |  |
|                                       | <code>PASS</code>              | Pass through the header.  |  |
| <code>standardAddHeaderName</code>    | enum                           | If the value of <code>action</code> is <code>ADD</code> , this specifies the name of the field to add.                    | <code>action</code> is <code>ADD</code>    |
|                                       | <code>ACCEPT_ENCODING</code>   | Add an <code>Accept-Encoding</code> header.   |  |
|                                       | <code>ACCEPT_LANGUAGE</code>   | Add an <code>Accept-Language</code> header.   |  |
|                                       | <code>OTHER</code>             | Specify another header to add.  |  |
| <code>standardDeleteHeaderName</code> | enum                           | If the value of <code>action</code> is <code>DELETE</code> , this specifies the name of the field to remove.              | <code>action</code> is <code>DELETE</code> |
|                                       | <code>IF_MODIFIED_SINCE</code> | The <code>If-Modified-Since</code> header.  |  |
|                                       | <code>VIA</code>               | The <code>Via</code> header.  |  |
|                                       | <code>OTHER</code>             | Specify another header to remove.   |  |
| <code>standardModifyHeaderName</code> | enum                           | If the value of <code>action</code> is <code>MODIFY</code> , this specifies the name of the field to modify.              | <code>action</code> is <code>MODIFY</code> |
|                                       | <code>ACCEPT_ENCODING</code>   | Add an <code>Accept-Encoding</code> header.   |  |
|                                       | <code>ACCEPT_LANGUAGE</code>   | Add an <code>Accept-Language</code> header.   |  |
|                                       | <code>OTHER</code>             | Specify another header to add.  |  |
| <code>standardPassHeaderName</code>   | enum                           | If the value of <code>action</code> is <code>PASS</code> , this specifies the name of the field to pass through.          | <code>action</code> is <code>PASS</code>   |
|                                       | <code>ACCEPT_ENCODING</code>   | Add an <code>Accept-Encoding</code> header.   |  |
|                                       | <code>ACCEPT_LANGUAGE</code>   | Add an <code>Accept-Language</code> header.   |  |
|                                       | <code>OTHER</code>             | Specify another header to add.  |  |



| Option                | Type  | Description   | Requires   |
|-----------------------|---|---|--|
| customHeaderName      | string<br>(allows <a href="#">variables</a> ) | Specifies a custom field name that applies when the relevant <i>standard</i> header name is set to <code>OTHER</code> .         | standardAddHeaderName is <code>OTHER</code><br>OR standardDeleteHeaderName is <code>OTHER</code><br>OR standardModifyHeaderName is <code>OTHER</code><br>OR standardPassHeaderName is <code>OTHER</code> |
| headerValue           | string<br>(allows <a href="#">variables</a> ) | Specifies the new header value.   | action is <code>ADD</code>   |
| newHeaderValue        | string<br>(allows <a href="#">variables</a> ) | Supplies an HTTP header replacement value.  | action is <code>MODIFY</code>  |
| avoidDuplicateHeaders | boolean                                       | When enabled with the <code>action</code> set to <code>MODIFY</code> , prevents creation of more than one instance of a header. | action is <code>MODIFY</code>  |

## modifyIncomingResponseHeader

- **Property Manager name:** [Modify Incoming Response Header](#)<sup>↗</sup>
- **Behavior version:** The `v2019-07-25` rule format supports the `modifyIncomingResponseHeader` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Modify, add, remove, or pass along specific response headers coming downstream from the origin.


Depending on the type of `action` you want to perform, specify the corresponding *standard* header name, or a `customHeaderName` if the standard name is set to `OTHER` . The `headerValue` serves as a match condition when the action is `DELETE` or `MODIFY` , and the `newHeaderValue` applies when the action is `ADD` or `MODIFY` .

See also [modifyIncomingRequestHeader](#) , [modifyOutgoingRequestHeader](#) , and [modifyOutgoingResponseHeader](#) .

| Option                | Type                       | Description  | Requires                   |
|-----------------------|----------------------------|--|----------------------------|
| action                | enum                       | Either <code>ADD</code> , <code>DELETE</code> , <code>MODIFY</code> , or <code>PASS</code> incoming HTTP response headers. |                            |
|                       | <code>ADD</code>           | Add the header.  |                            |
|                       | <code>DELETE</code>        | Delete the header.   |                            |
|                       | <code>MODIFY</code>        | Modify the header.   |                            |
|                       | <code>PASS</code>          | Pass through the header.   |                            |
| standardAddHeaderName | enum                       | If the value of <code>action</code> is <code>ADD</code> , this specifies the name of the field to add.                     | action is <code>ADD</code> |
|                       | <code>CACHE_CONTROL</code> | The <code>Cache-Control</code> header.   |                            |
|                       | <code>CONTENT_TYPE</code>  | The <code>Content-Type</code> header.  |                            |
|                       | <code>EDGE_CONTROL</code>  | The <code>Edge-Control</code> header.  |                            |
|                       | <code>EXPIRES</code>       | The <code>Expires</code> header.   |                            |
|                       | <code>LAST_MODIFIED</code> | The <code>Last-Modified</code> header.   |                            |

| Option                   | Type  | Description   | <a href="#">Requires</a>   |
|--------------------------|---|---|--|
|                          | OTHER   | Specify another header to add.  |  |
| standardDeleteHeaderName | enum  | If the value of <code>action</code> is <code>DELETE</code> , this specifies the name of the field to remove.                    | <code>action</code> is <code>DELETE</code>   |
|                          | CACHE_CONTROL                                 | The <code>Cache-Control</code> header.  |  |
|                          | CONTENT_TYPE                                  | The <code>Content-Type</code> header.   |  |
|                          | VARY  | The <code>Vary</code> header.   |  |
|                          | OTHER   | Specify another header to remove.   |  |
| standardModifyHeaderName | enum  | If the value of <code>action</code> is <code>MODIFY</code> , this specifies the name of the field to modify.                    | <code>action</code> is <code>MODIFY</code>   |
|                          | CACHE_CONTROL                                 | The <code>Cache-Control</code> header.  |  |
|                          | CONTENT_TYPE                                  | The <code>Content-Type</code> header.   |  |
|                          | EDGE_CONTROL                                  | The <code>Edge-Control</code> header.   |  |
|                          | OTHER   | Specify another header to modify.   |  |
| standardPassHeaderName   | enum  | If the value of <code>action</code> is <code>PASS</code> , this specifies the name of the field to pass through.                | <code>action</code> is <code>PASS</code>   |
|                          | CACHE_CONTROL                                 | Pass through the <code>Cache-Control</code> header.   |  |
|                          | EXPIRES                                       | Pass through the <code>Expires</code> header.   |  |
|                          | PRAGMA  | Pass through the <code>Pragma</code> header.  |  |
|                          | OTHER   | Specify another header to pass.   |  |
| customHeaderName         | string<br>(allows <a href="#">variables</a> ) | Specifies a custom field name that applies when the relevant <i>standard</i> header name is set to <code>OTHER</code> .         | <code>standardAddHeaderName</code> is <code>OTHER</code><br>OR <code>standardDeleteHeaderName</code> is <code>OTHER</code><br>OR <code>standardModifyHeaderName</code> is <code>OTHER</code><br>OR <code>standardPassHeaderName</code> is <code>OTHER</code> |
| headerValue              | string<br>(allows <a href="#">variables</a> ) | Specifies the header's new value.   | <code>action</code> is <code>ADD</code>  |
| newHeaderValue           | string<br>(allows <a href="#">variables</a> ) | Specifies an HTTP header replacement value.   | <code>action</code> is <code>MODIFY</code>   |
| avoidDuplicateHeaders    | boolean                                       | When enabled with the <code>action</code> set to <code>MODIFY</code> , prevents creation of more than one instance of a header. | <code>action</code> is <code>MODIFY</code>   |

## modifyOutgoingRequestHeader

- **Property Manager name:** [Modify Outgoing Request Header](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `modifyOutgoingRequestHeader` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Modify, add, remove, or pass along specific request headers going upstream towards the origin.

Depending on the type of `action` you want to perform, specify the corresponding *standard* header name, or a `customHeaderName` if the standard name is set to `OTHER`. The `headerValue` serves as a match condition when the action is `DELETE` or `MODIFY`, and the `newHeaderValue` applies when the action is `ADD` or `MODIFY`. Whole-text replacements apply when the action is `MODIFY`, and substitutions apply when set to `REGEX`.

See also [modifyIncomingRequestHeader](#), [modifyIncomingResponseHeader](#), and [modifyOutgoingResponseHeader](#).

| Option                                | Type  | Description  | Requires   |
|---------------------------------------|---|--|--|
| <code>action</code>                   | enum  | Either <code>ADD</code> or <code>DELETE</code> outgoing HTTP request headers, <code>MODIFY</code> their fixed values, or specify a <code>REGEX</code> pattern to transform them. |  |
|                                       | <code>ADD</code>                              | Add the header.  |  |
|                                       | <code>DELETE</code>                           | Delete the header.   |  |
|                                       | <code>MODIFY</code>                           | Modify the header.   |  |
|                                       | <code>REGEX</code>                            | Specify another header to modify.  |  |
| <code>standardAddHeaderName</code>    | enum  | If the value of <code>action</code> is <code>ADD</code> , this specifies the name of the field to add.   | <code>action</code> is <code>ADD</code>  |
|                                       | <code>USER_AGENT</code>                       | The <code>User-Agent</code> header.  |  |
|                                       | <code>OTHER</code>                            | Specify another header to add.   |  |
| <code>standardDeleteHeaderName</code> | enum  | If the value of <code>action</code> is <code>DELETE</code> , this specifies the name of the field to remove.   | <code>action</code> is <code>DELETE</code>   |
|                                       | <code>PRAGMA</code>                           | The <code>Pragma</code> header.  |  |
|                                       | <code>USER_AGENT</code>                       | The <code>User-Agent</code> header.  |  |
|                                       | <code>VIA</code>                              | The <code>Via</code> header.   |  |
|                                       | <code>OTHER</code>                            | Specify another header to remove.  |  |
| <code>standardModifyHeaderName</code> | enum  | If the value of <code>action</code> is <code>MODIFY</code> or <code>REGEX</code> , this specifies the name of the field to modify.   | <code>action</code> is <code>MODIFY</code> OR <code>action</code> is <code>REGEX</code>  |
|                                       | <code>USER_AGENT</code>                       | The <code>User-Agent</code> header.  |  |
|                                       | <code>OTHER</code>                            | Specify another header to modify.  |  |
| <code>customHeaderName</code>         | string<br>(allows <a href="#">variables</a> ) | Specifies a custom field name that applies when the relevant <i>standard</i> header name is set to <code>OTHER</code> .  | <code>standardAddHeaderName</code> is <code>OTHER</code><br>OR <code>standardDeleteHeaderName</code> is <code>OTHER</code><br>OR <code>standardModifyHeaderName</code> is <code>OTHER</code> |
| <code>headerValue</code>              | string<br>(allows <a href="#">variables</a> ) | Specifies the new header value.  | <code>action</code> is <code>ADD</code>  |
| <code>newHeaderValue</code>           | string<br>(allows <a href="#">variables</a> ) | Specifies an HTTP header replacement value.  | <code>action</code> is <code>MODIFY</code>   |
| <code>regexHeaderMatch</code>         | string<br>(allows <a href="#">variables</a> ) | Specifies a Perl-compatible regular expression to match within the header value.   | <code>action</code> is <code>REGEX</code>  |
| <code>regexHeaderReplace</code>       | string<br>(allows <a href="#">variables</a> ) | Specifies text that replaces the <code>regexHeaderMatch</code> pattern within the header value.  | <code>action</code> is <code>REGEX</code>  |
| <code>matchMultiple</code>            | boolean                                       | When enabled with the <code>action</code> set to <code>REGEX</code> , replaces all occurrences of the matched regular expression, otherwise only the first match if disabled.    | <code>action</code> is <code>REGEX</code>  |

| Option                  | Type    | Description   | Requires                                   |
|-------------------------|---------|---|--|
| avoid Duplicate Headers | boolean | When enabled with the <code>action</code> set to <code>MODIFY</code> , prevents creation of more than one instance of a header. | <code>action</code> is <code>MODIFY</code> |

## modifyOutgoingResponseHeader

- **Property Manager name:** [Modify Outgoing Response Header](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `modifyOutgoingResponseHeader` behavior v1.4.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Modify, add, remove, or pass along specific response headers going downstream towards the client.

Depending on the type of `action` you want to perform, specify the corresponding *standard* header name, or a `customHeaderName` if the standard name is set to `OTHER`. The `headerValue` serves as a match condition when the action is `DELETE` or `MODIFY`, and the `newHeaderValue` applies when the action is `ADD` or `MODIFY`. Whole-text replacements apply when the action is `MODIFY`, and substitutions apply when set to `REGEX`.

See also [modifyIncomingRequestHeader](#), [modifyIncomingResponseHeader](#), and [modifyOutgoingRequestHeader](#)

| Option                                | Type                                      | Description   | Requires                                |
|---------------------------------------|---|---|---|
| <code>action</code>                   | enum                                      | Either <code>ADD</code> or <code>DELETE</code> outgoing HTTP response headers, <code>MODIFY</code> their fixed values, or specify a <code>REGEX</code> pattern to transform them. |   |
|                                       | <code>ADD</code>                          | Add the header.   |   |
|                                       | <code>DELETE</code>                       | Delete the header.  |   |
|                                       | <code>MODIFY</code>                       | Modify the header.  |   |
|                                       | <code>REGEX</code>                        | Specify another header to modify.   |   |
| <code>standard Add Header Name</code> | enum                                      | If the value of <code>action</code> is <code>ADD</code> , this specifies the name of the field to add.  | <code>action</code> is <code>ADD</code> |
|                                       | <code>CACHE_CONTROL</code>                | The <code>Cache-Control</code> header.  |   |
|                                       | <code>CONTENT_DISPOSITION</code>          | The <code>Content-Disposition</code> header.  |   |
|                                       | <code>CONTENT_TYPE</code>                 | The <code>Content-Type</code> header.   |   |
|                                       | <code>EDGE_CONTROL</code>                 | The <code>Edge-Control</code> header.   |   |
|                                       | <code>P3P</code>                          | Specify another header to add.  |   |
|                                       | <code>PRAGMA</code>                       | The <code>Pragma</code> header.   |   |
|                                       | <code>ACCESS_CONTROL_ALLOW_ORIGIN</code>  | The <code>Access-Control-Allow-Origin</code> header.  |   |
|                                       | <code>ACCESS_CONTROL_ALLOW_METHODS</code> | The <code>Access-Control-Allow-Methods</code> header.   |   |

| Option                      | Type                             | Description   | Requires                            |
|-----------------------------|----------------------------------|---|-------------------------------------|
|                             | ACCESS_CONTROL_ALLOW_HEADERS     | The Access-Control-Allow-Headers header.  |                                     |
|                             | ACCESS_CONTROL_EXPOSE_HEADERS    | The Access-Control-Expose-Headers header.   |                                     |
|                             | ACCESS_CONTROL_ALLOW_CREDENTIALS | The Access-Control-Allow-Credentials header.  |                                     |
|                             | ACCESS_CONTROL_MAX_AGE           | The Access-Control-Max-Age header.  |                                     |
|                             | OTHER                            | Specify another header to add.  |                                     |
| standard Delete Header Name | enum                             | If the value of action is DELETE , this specifies the name of the field to remove.          | action is DELETE                    |
|                             | CACHE_CONTROL                    | The Cache-Control header.   |                                     |
|                             | CONTENT_DISPOSITION              | The Content-Disposition header.   |                                     |
|                             | CONTENT_TYPE                     | The Content-Type header.  |                                     |
|                             | EXPIRES                          | The Expires header.   |                                     |
|                             | P3P                              | The P3P header.   |                                     |
|                             | PRAGMA                           | The Pragma header.  |                                     |
|                             | ACCESS_CONTROL_ALLOW_ORIGIN      | The Access-Control-Allow-Origin header.   |                                     |
|                             | ACCESS_CONTROL_ALLOW_METHODS     | The Access-Control-Allow-Methods header.  |                                     |
|                             | ACCESS_CONTROL_ALLOW_HEADERS     | The Access-Control-Allow-Headers header.  |                                     |
|                             | ACCESS_CONTROL_EXPOSE_HEADERS    | The Access-Control-Expose-Headers header.   |                                     |
|                             | ACCESS_CONTROL_ALLOW_CREDENTIALS | The Access-Control-Allow-Credentials header.  |                                     |
|                             | ACCESS_CONTROL_MAX_AGE           | The Access-Control-Max-Age header.  |                                     |
|                             | OTHER                            | Specify another header to remove.   |                                     |
| standard Modify Header Name | enum                             | If the value of action is MODIFY or REGEX , this specifies the name of the field to modify. | action is MODIFY OR action is REGEX |
|                             | CACHE_CONTROL                    | The Cache-Control header.   |                                     |
|                             | CONTENT_DISPOSITION              | The Content-Disposition header.   |                                     |
|                             | CONTENT_TYPE                     | The Content-Type header.  |                                     |
|                             | P3P                              | The P3P header.   |                                     |
|                             | PRAGMA                           | The Pragma header.  |                                     |
|                             | ACCESS_CONTROL_ALLOW_ORIGIN      | The Access-Control-Allow-Origin header.   |                                     |

| Option                  | Type                                       | Description   | Requires   |
|-------------------------|--|---|--|
|                         | ACCESS_CONTROL_ALLOW_METHODS               | The Access-Control-Allow-Methods header.  |  |
|                         | ACCESS_CONTROL_ALLOW_HEADERS               | The Access-Control-Allow-Headers header.  |  |
|                         | ACCESS_CONTROL_EXPOSE_HEADERS              | The Access-Control-Expose-Headers header.   |  |
|                         | ACCESS_CONTROL_ALLOW_CREDENTIALS           | The Access-Control-Allow-Credentials header.  |  |
|                         | ACCESS_CONTROL_MAX_AGE                     | The Access-Control-Max-Age header.  |  |
|                         | OTHER                                      | Specify another header to modify.   |  |
| custom Header Name      | string (allows <a href="#">variables</a> ) | Specifies a custom field name that applies when the relevant <i>standard</i> header name is set to OTHER .  | standardAdd Header Name is OTHER OR standardDeleteHeader Name is OTHER OR standardModifyHeader Name is OTHER |
| header Value            | string (allows <a href="#">variables</a> ) | Specifies the existing value of the header to match.  | action is ADD  |
| new Header Value        | string (allows <a href="#">variables</a> ) | Specifies the new HTTP header replacement value.  | action is MODIFY   |
| regex Header Match      | string                                     | Specifies a Perl-compatible regular expression to match within the header value.  | action is REGEX  |
| regex Header Replace    | string (allows <a href="#">variables</a> ) | Specifies text that replaces the <code>regexHeaderMatch</code> pattern within the header value.   | action is REGEX  |
| match Multiple          | boolean                                    | When enabled with the <code>action</code> set to REGEX , replaces all occurrences of the matched regular expression, otherwise only the first match if disabled.  | action is REGEX  |
| avoid Duplicate Headers | boolean                                    | When enabled with the <code>action</code> set to MODIFY , prevents creation of more than one instance of a header. The last header clobbers others with the same name. This option affects the entire set of outgoing headers, and is not confined to the subset of regular expression matches. | action is MODIFY   |

## netSession


- **Property Manager name:** [NetSession](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `netSession` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)

- **Access:** [Read-write](#)

**Deprecated** This behavior enables various features of NetSession, a client-side download manager application that's especially appropriate for large file downloads. For the feature to work, the end user needs to download the DLM client.

| Option                  | Type         | Description   |
|-------------------------|--------------|---|
| enabled                 | boolean      | Enables NetSession DLM capabilities for this content.   |
| enable Domain           | boolean      | Enables Download Manager domains.   |
| enable Download Manager | boolean      | When enabled, launches files once they are fully downloaded. For example, specify this option to run an executable application.   |
| enable Download Clients | boolean      | Allows download clients to form a peer-to-peer network to reduce transmission time.   |
| disable Reporting       | boolean      | Disable download state reporting via HTTP beacon messages. Otherwise when enabled, you can view the state of each download by choosing <b>Monitor</b> <> <b>Download Analytics</b> on the DLM client. |
| resumeUrl               | string array | Specify an alternate domain from which to resume a paused download. This generates a corresponding shortcut link on the end user's desktop that disappears after the download is complete.            |
| organization Name       | string       | The name of the organization that displays in the NetSession client DLM interface.  |
| supportUrl              | string       | A supporting link to the <code>organizationName</code> that displays in the NetSession client DLM interface.  |

## networkConditionsHeader

- **Property Manager name:** [Network Conditions Header](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `networkConditionsHeader` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Instructs edge servers to send an `X-Akamai-Network-Condition` header to the origin assessing the quality of the network.

| Option   | Type       | Description  |
|----------|------------|--|
| behavior | enum       | Specifies either two or three quality levels.                          |
|          | TWO_TIER   | The assessment is either <code>Excellent</code> or <code>Poor</code> . |
|          | THREE_TIER | The assessment can also be <code>Fair</code> .                         |

## origin

- **Property Manager name:** [Origin Server](#)<sup>1)</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `origin` behavior v1.19.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specify the hostname and settings used to contact the origin once service begins. You can use your own origin, [Net Storage](#)<sup>2)</sup>, an Edge Load Balancing origin, or a SaaS dynamic origin.

| Option                                     | Type                                       | Description  | <a href="#">Requires</a>                                    |
|--|--|--|---|
| <code>originType</code>                    | enum                                       | Choose where your content is retrieved from.   |   |
|  | CUSTOMER                                   | From your own server.  |   |
|  | NET_STORAGE                                | From your <a href="#">NetStorage</a> <sup>2)</sup> account. This option is most appropriate for static content.  |   |
|  | MEDIA_SERVICE_LIVE                         | From a Media Services Live origin.   |   |
|  | EDGE_LOAD_BALANCING_ORIGIN_GROUP           | From any available Edge Load Balancing origin.   |   |
|  | SAAS_DYNAMIC_ORIGIN                        | From a SaaS dynamic origin if SaaS acceleration is available on your contract.   |   |
| <code>netStorage</code>                    | object                                     | Specifies the details of the NetStorage server.  | <code>originType</code> is NET_STORAGE                      |
| <code>netStorage.cpCodeList</code>         | array                                      | A set of CP codes that apply to this storage group.  |   |
| <code>netStorage.downloadDomainName</code> | string                                     | Domain name from which content can be downloaded.  |   |
| <code>netStorage.id</code>                 | number                                     | Unique identifier for the storage group.   |   |
| <code>netStorage.name</code>               | string                                     | Name of the storage group.   |   |
| <code>netStorage.uploadDomainName</code>   | string                                     | Domain name used to upload content.  |   |
| <code>originId</code>                      | string                                     | Identifies the Edge Load Balancing origin. This needs to correspond to an <a href="#">edgeLoadBalancingOrigin</a> behavior's <code>id</code> attribute within the same property. | <code>originType</code> is EDGE_LOAD_BALANCING_ORIGIN_GROUP |
| <code>hostname</code>                      | string (allows <a href="#">variables</a> ) | Specifies the hostname or IPv4 address of your origin server, from which edge servers can retrieve your content.   | <code>originType</code> is CUSTOMER                         |
| <code>mslorigin</code>                     | string                                     | This specifies the media's origin server.  | <code>originType</code> is MEDIA_SERVICE_LIVE               |
| <code>saasType</code>                      | enum                                       | Specifies the part of the request that identifies this SaaS dynamic origin.  | <code>originType</code> is SAAS_DYNAMIC_ORIGIN              |
|  |  | <b>Supported values:</b><br>COOKIE HOSTNAME  |   |
| <code>saasCnameEnabled</code>              | boolean                                    | Enabling this allows you to use a <i>CNAME chain</i> to determine the hostname for this SaaS dynamic origin.   | <code>saasType</code> is HOSTNAME                           |



| Option                  | Type                                       | Description   | Requires   |
|-------------------------|--|---|--|
| saasCnameLevel          | number                                     | Specifies the desired number of hostnames to use in the <i>CNAME chain</i> , starting backwards from the edge server.   | saasCnameEnabled is true   |
| saasCookie              | string                                     | Specifies the name of the cookie that identifies this SaaS dynamic origin.  | saasType is COOKIE   |
| saasQueryString         | string                                     | Specifies the name of the query parameter that identifies this SaaS dynamic origin.   | saasType is QUERY_STRING   |
| saasRegex               | string                                     | Specifies the Perl-compatible regular expression match that identifies this SaaS dynamic origin.  | originType is SAAS_DYNAMIC_ORIGIN  |
| saasReplace             | string                                     | Specifies replacement text for what <code>saasRegex</code> matches.   | originType is SAAS_DYNAMIC_ORIGIN  |
| saasSuffix              | string                                     | Specifies the static part of the SaaS dynamic origin.   | originType is SAAS_DYNAMIC_ORIGIN  |
| forwardHostHeader       | enum                                       | When the <code>originType</code> is set to either <code>CUSTOMER</code> or <code>SAAS_DYNAMIC_ORIGIN</code> , this specifies which <code>Host</code> header to pass to the origin.  | originType is either: <code>CUSTOMER</code> , <code>SAAS_DYNAMIC_ORIGIN</code>   |
|                         | REQUEST_HOST_HEADER                        | Passes the original request's header.   |  |
|                         | ORIGIN_HOSTNAME                            | Passes the current origin's <code>HOSTNAME</code> .   |  |
|                         | CUSTOM                                     | Passes the value of <code>customForwardHostHeader</code> . Use this option if you want requests handled by different properties to converge on the same cached object.  |  |
| customForwardHostHeader | string (allows <a href="#">variables</a> ) | This specifies the name of the custom host header the edge server should pass to the origin.  | forwardHostHeader is CUSTOM  |
| cacheKeyHostname        | enum                                       | Specifies the hostname to use when forming a cache key.   | originType is either: <code>CUSTOMER</code> , <code>SAAS_DYNAMIC_ORIGIN</code>   |
|                         | REQUEST_HOST_HEADER                        | Specify when using a virtual server.  |  |
|                         | ORIGIN_HOSTNAME                            | Specify if your origin server's responses do not depend on the hostname.  |  |
| useUniqueCacheKey       | boolean                                    | With a shared <code>hostname</code> such as provided by Amazon AWS, sets a unique cache key for your content.   |  |
| compress                | boolean                                    | Enables <i>gzip</i> compression for non-NetStorage origins.   | originType is either: <code>CUSTOMER</code> , <code>EDGE_LOAD_BALANCING_ORIGIN_GROUP</code> , <code>SAAS_DYNAMIC_ORIGIN</code> |
| enableTrueClientIp      | boolean                                    | When enabled on non-NetStorage origins, allows you to send a custom header (the <code>trueClientIpHeader</code> ) identifying the IP address of the immediate client connecting to the edge server. This may provide more useful information than the standard <code>X-Forward-For</code> header, which proxies may modify. | originType is either: <code>CUSTOMER</code> , <code>EDGE_LOAD_BALANCING_ORIGIN_GROUP</code> , <code>SAAS_DYNAMIC_ORIGIN</code> |

| Option                               | Type                                     | Description  | Requires   |
|--------------------------------------|--|--|--|
| trueClientIp<br>Header               | string                                   | This specifies the name of the field that identifies the end client's IP address, for example <code>True-Client-IP</code> .  | enableTrueClientIp<br>is <code>true</code>   |
| trueClientIp<br>ClientSetting        | boolean                                  | If a client sets the <code>True-Client-IP</code> header, the edge server allows it and passes the value to the origin. Otherwise the edge server removes it and sets the value itself.   | enableTrueClientIp<br>is <code>true</code>   |
| verificationMode                     | enum                                     | For non-NetStorage origins, maximize security by controlling which certificates edge servers should trust.   | originType is<br>either:<br>CUSTOMER, EDGE_<br>LOAD_BALANCING_<br>ORIGIN_GROUP,<br>SAAS_DYNAMIC_<br>ORIGIN   |
|                                      | PLATFORM_<br>SETTINGS                    | Trust platform settings.   |  |
|                                      | CUSTOM                                   | Only applies if the property is marked as secure. See <a href="#">Secure property requirements</a> for guidance. Under some products, you may also need to enable the <i>Secure Delivery - Customer Cert</i> module. Contact your Akamai representative for details.   |  |
|                                      | THIRD_PARTY                              | When your origin server references certain types of third-party hostname.  |  |
| originSni                            | boolean                                  | For non-NetStorage origins, enabling this adds a Server Name Indication (SNI) header in the SSL request sent to the origin, with the origin hostname as the value. Contact your Akamai representative for more information.  | originType is<br>either:<br>CUSTOMER, EDGE_<br>LOAD_BALANCING_<br>ORIGIN_GROUP,<br>SAAS_DYNAMIC_<br>ORIGIN<br>AND verification<br>Mode is either:<br>PLATFORM_<br>SETTINGS,<br>CUSTOM, THIRD_<br>PARTY |
| customValidCn<br>Values              | string array                             | Specifies values to look for in the origin certificate's <code>Subject Alternate Name</code> or <code>Common Name</code> fields. Specify <code>{{Origin Hostname}}</code> and <code>{{Forward Host Header}}</code> within the text in the order you want them to be evaluated. (Note that these two template items are not the same as in-line <a href="#">variables</a> , which use the same curly-brace syntax.) | verificationMode is<br>CUSTOM  |
| originCertsTo<br>Honor               | enum                                     | Specifies which certificate to trust.  | verificationMode is<br>CUSTOM  |
|                                      | COMBO                                    | May rely on all three other inputs.  |  |
|                                      | STANDARD_<br>CERTIFICATE_<br>AUTHORITIES | Any certificate signed by an Akamai-managed authority set.   |  |
|                                      | CUSTOM_<br>CERTIFICATE_<br>AUTHORITIES   | Any certificate signed by a custom authority set you manage.   |  |
|                                      | CUSTOM_<br>CERTIFICATES                  | Pinned origin server certificates.   |  |
| custom<br>Certificate<br>Authorities | object array                             | Specifies an array of certification objects. Contact your Akamai representative for details on this object's requirements.   | originCertsToHonor<br>is either: CUSTOM_<br>CERTIFICATE_<br>AUTHORITIES,<br>COMBO  |

| Option              | Type         | Description   | Requires  |
|---------------------|--------------|---|---|
| custom Certificates | object array | Specifies an array of certification objects. Contact your Akamai representative for details on this object's requirements.  | originCertsToHonor is either: CUSTOM_CERTIFICATES , COMBO |
| httpPort            | number       | Specifies the port on your origin server to which edge servers should connect for HTTP requests, customarily 80 .   | originType is either: CUSTOMER , SAAS_DYNAMIC_ORIGIN      |
| httpsPort           | number       | Specifies the port on your origin server to which edge servers should connect for secure HTTPS requests, customarily 443 . This option only applies if the property is marked as secure. See <a href="#">Secure property requirements</a> for guidance. | originType is either: CUSTOMER , SAAS_DYNAMIC_ORIGIN      |

## originCharacteristics

- **Property Manager name:** [Origin Characteristics](#)
- **Behavior version:** The v2019-07-25 rule format supports the originCharacteristics behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies characteristics of the origin. Akamai uses this information to optimize your metadata configuration, which may result in better origin offload and end-user performance.

See also [clientCharacteristics](#) and various product-specific behaviors whose names are prefixed *content Characteristics*.

| Option  | Type           | Description                               | Requires |
|---------|----------------|---|----------|
| country | enum           | Specifies the origin's geographic region. |          |
|         | EUROPE         | Europe.                                   |          |
|         | NORTH_AMERICA  | North America.                            |          |
|         | LATIN_AMERICA  | Latin America.                            |          |
|         | SOUTH_AMERICA  | South America.                            |          |
|         | NORDICS        | Northern Europe.                          |          |
|         | ASIA_PACIFIC   | Asia and Pacific Islands.                 |          |
|         | OTHER_AMERICAS | Other Americas.                           |          |
|         | OTHER_APJ      | Asia, Pacific, Japan.                     |          |
|         | OTHER_EMEA     | Europe, Middle East, Africa.              |          |
|         | AUSTRALIA      | Australia.                                |          |
|         | GERMANY        | Germany.                                  |          |
|         | INDIA          | India.                                    |          |
|         | ITALY          | Italy.                                    |          |

| Option                | Type                            | Description  | <a href="#">Requires</a>  |
|-----------------------|---------------------------------|--|---|
|                       | JAPAN                           | Japan.   |   |
|                       | MEXICO                          | Mexico.  |   |
|                       | TAIWAN                          | Taiwan.  |   |
|                       | UNITED_KINGDOM                  | United Kingdom.  |   |
|                       | US_EAST                         | Eastern United States.   |   |
|                       | US_CENTRAL                      | Central United States.   |   |
|                       | US_WEST                         | Western United States.   |   |
|                       | GLOBAL_MULTI_GEO                | Global.  |   |
|                       | OTHER                           | A fallback value.  |   |
|                       | UNKNOWN                         | Defer this optimization.   |   |
|                       | ADC                             | Akamai Direct Connection, available to Adaptive Media Delivery customers.  |   |
| directConnect Geo     | string                          | Provides a region used by Akamai Direct Connection.  | country is ADC  |
| authentication Method | enum                            | Specifies the authentication method.   |   |
|                       | AUTOMATIC                       | Use default authentication.  |   |
|                       | SIGNATURE_HEADER_AUTHENTICATION | Available with the Adaptive Media Delivery product.  |   |
|                       | MSL_AUTHENTICATION              | Available with the Adaptive Media Delivery product.  |   |
|                       | GCP                             | Google Cloud Platform.   |   |
|                       | AWSV4                           | Amazon Web Services v4.  |   |
| encoding Version      | enum                            | Specifies the version of the encryption algorithm, an integer from 1 to 5.   | authenticationMethod is SIGNATURE_HEADER_AUTHENTICATION                                 |
| useCustom SignString  | boolean                         | Specifies whether to customize your signed string.   | authenticationMethod is SIGNATURE_HEADER_AUTHENTICATION                                 |
| customSign String     | string array                    | Specifies the data to be encrypted as a series of enumerated variable names. See <a href="#">Built-in system variables</a> for guidance on each.           | authenticationMethod is SIGNATURE_HEADER_AUTHENTICATION AND useCustomSignString is true |
|                       |                                 | <b>Supported values:</b><br><br><div> AK_CLIENT_REAL_IP<br/> AK_DOMAIN<br/> AK_EXTENSION </div> <div> AK_FILENAME<br/> AK_HOSTHEADER<br/> AK_METHOD </div> |   |
| secretKey             | object array                    | Specifies the shared secret key.   | authenticationMethod is SIGNATURE_HEADER_AUTHENTICATION                                 |
| nonce                 | string                          | Specifies the nonce.   | authenticationMethod is SIGNATURE_HEADER_AUTHENTICATION                                 |

| Option           | Type   | Description   | <a href="#">Requires</a>                   |
|------------------|--------|---|--|
| mslkey           | string | Specifies the access key provided by the hosting service.                       | authenticationMethod is MSL_AUTHENTICATION |
| mslname          | string | Specifies the origin name provided by the hosting service.                      | authenticationMethod is MSL_AUTHENTICATION |
| gcsAccessKeyId   | string | Specifies the access key ID provided by Google Cloud Platform.                  | authenticationMethod is GCP                |
| gcsSecretKey     | string | Specifies the bucket name for your Google Cloud Platform service.               | authenticationMethod is GCP                |
| gcsBucket        | string | Specifies the secret key used to compute the signature.                         | authenticationMethod is GCP                |
| awsv4AccessKeyId | string | Specifies the access key used to compute the signature.                         | authenticationMethod is AWSV4              |
| awsv4SecretKey   | string | Specifies the secret key AWS uses to compute the signature.                     | authenticationMethod is AWSV4              |
| awsv4Region      | string | Specifies the region on the AWS service.  | authenticationMethod is AWSV4              |
| awsv4Host        | string | Specifies the AWS hostname, with no http:// or https:// prefix.                 | authenticationMethod is AWSV4              |
| awsv4Service     | string | Specifies the AWS service name, the hostname segment that precedes amazon.com . | authenticationMethod is AWSV4              |

## originCharacteristicsWsd

- **Property Manager name:** [Origin Characteristics](#) ➦
- **Behavior version:** The v2019-07-25 rule format supports the originCharacteristicsWsd behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies characteristics of the origin, for use in Akamai's Wholesale Delivery product.

| Option     | Type    | Description               |
|------------|---------|---------------------------|
| origintype | enum    | Specifies an origin type. |
|            | AZURE   | An Azure origin type.     |
|            | UNKNOWN | An unknown origin type.   |

## persistentClientConnection

- **Property Manager name:** [Persistent Connections: Client to Edge](#) ➦
- **Behavior version:** The v2019-07-25 rule format supports the persistentClientConnection behavior v1.1.

- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This behavior activates *persistent connections* between edge servers and clients, which allow for better performance and more efficient use of resources. Compare with the [persistentConnection](#) behavior, which configures persistent connections for the entire journey from origin to edge to client. Contact Akamai Professional Services for help configuring either.

**Warning.** Disabling or removing this behavior may negatively affect performance.

| Option  | Type              | Description  |
|---------|-------------------|--|
| enabled | boolean           | Enables the persistent connections behavior.   |
| timeout | string (duration) | Specifies the timeout period after which edge server closes the persistent connection with the client, 500 seconds by default. |

## persistentConnection

- **Property Manager name:** [Persistent Connections: Edge to Origin](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `persistentConnection` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This behavior enables more efficient *persistent connections* from origin to edge server to client. Compare with the [persistentClientConnection](#) behavior, which customizes persistent connections from edge to client. Contact Akamai Professional Services for help configuring either.

**Warning.** Disabling this behavior wastes valuable browser resources. Leaving connections open too long makes them vulnerable to attack. Avoid both of these scenarios.

| Option  | Type              | Description  |
|---------|-------------------|--|
| enabled | boolean           | Enables persistent connections.  |
| timeout | string (duration) | Specifies the timeout period after which edge server closes a persistent connection. |

## personallyIdentifiableInformation

- **Property Manager name:** [Personally Identifiable Information \(PII\)](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `personallyIdentifiableInformation` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Marks content covered by the current rule as sensitive *personally identifiable information* that needs to be treated as secure and private. That includes anything involving personal information: name, social security number, date and place of birth, mother's maiden name, biometric data, or any other data linked to an individual. If you attempt to save a property with such a rule that also caches or logs sensitive content, the added behavior results in a validation error.

**Warning.** This feature only identifies some vulnerabilities. For example, it does not prevent you from including secure information in a query string or writing it to an origin folder. It also can't tell whether the SSL protocol is in effect.

| Option  | Type    | Description   |
|---------|---------|---|
| enabled | boolean | When enabled, marks content as personally identifiable information (PII). |

## phasedRelease

- **Property Manager name:** [Phased Release Cloudlet](#)
- **Behavior version:** The v2019-07-25 rule format supports the phasedRelease behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Phased Release Cloudlet provides gradual and granular traffic management to an alternate origin in near real time. Use the [Cloudlets API](#) or the Cloudlets Policy Manager application within [Control Center](#) to set up your Cloudlets policies.

| Option                | Type             | Description  | Requires |
|-----------------------|------------------|--|----------|
| enabled               | boolean          | Enables the Phased Release Cloudlet.   |          |
| cloudlet Policy       | object           | Specifies the Cloudlet policy as an object.  |          |
| cloudlet Policy.id    | number           | Identifies the Cloudlet.   |          |
| cloudlet Policy.name  | string           | The Cloudlet's descriptive name.   |          |
| label                 | string           | A label to distinguish this Phased Release policy from any others within the same property.  |          |
| population CookieType | enum             | Select when to assign a cookie to the population of users the Cloudlet defines. If you select the Cloudlet's <i>random</i> membership option, it overrides this option's value so that it is effectively <i>NONE</i> . |          |
|                       | NONE             | Do not expire the cookie.  |          |
|                       | NEVER            | Never assign a cookie.   |          |
|                       | ON_BROWSER_CLOSE | Once the browser session ends.   |          |
|                       | FIXED_DATE       | Specify a time when the cookie expires.  |          |
|                       | DURATION         | Specify a delay before the cookie expires.   |          |

| Option                           | Type                        | Description  | Requires                                  |
|----------------------------------|-----------------------------|--|---|
| population<br>Expiration<br>Date | string<br>(epoch timestamp) | Specifies the date and time when membership expires, and the browser no longer sends the cookie. Subsequent requests re-evaluate based on current membership settings.   | population<br>CookieType is<br>FIXED_DATE |
| population<br>Duration           | string (duration)           | Sets the lifetime of the cookie from the initial request. Subsequent requests re-evaluate based on current membership settings.  | population<br>CookieType is<br>DURATION   |
| population<br>Refresh            | boolean                     | Enabling this option resets the original duration of the cookie if the browser refreshes before the cookie expires.  | population<br>CookieType is<br>DURATION   |
| failover<br>Enabled              | boolean                     | Allows failure responses at the origin defined by the Cloudlet to fail over to the prevailing origin defined by the property.  |   |
| failover<br>Response<br>Code     | string array                | Defines the set of failure codes that initiate the failover response.  | failover<br>Enabled is<br>true            |
| failover<br>Duration             | number (0-300)              | Specifies the number of seconds to wait until the client tries to access the failover origin after the initial failure is detected. Set the value to 0 to immediately request the alternate origin upon failure. | failover<br>Enabled is<br>true            |

## preconnect

- **Property Manager name:** [Manual Preconnect](#)
- **Behavior version:** The v2019-07-25 rule format supports the preconnect behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

With the [http2](#) behavior enabled, this requests a specified set of domains that relate to your property hostname, and keeps the connection open for faster loading of content from those domains.

| Option         | Type         | Description   |
|----------------|--------------|---|
| preconnectlist | string array | Specifies the set of hostnames to which to preconnect over HTTP2. |

## predictiveContentDelivery


- **Property Manager name:** [Predictive Content Delivery](#)
- **Behavior version:** The v2019-07-25 rule format supports the predictiveContentDelivery behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)



Improves user experience and reduces the cost of downloads by enabling mobile devices to predictively fetch and cache content from catalogs managed by Akamai servers. You can't use this feature if in the [segmentedMedia Optimization](#) behavior, the value for `behavior` is set to `LIVE`.

| Option               | Type    | Description                                       |
|----------------------|---------|---|
| <code>enabled</code> | boolean | Enables the predictive content delivery behavior. |


## predictivePrefetching

- **Property Manager name:** [Predictive Prefetching](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `predictivePrefetching` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior potentially reduces the client's page load time by pre-caching objects based on historical data for the page, not just its current set of referenced objects. It also detects second-level dependencies, such as objects retrieved by JavaScript.

| Option                       | Type                | Description  |
|------------------------------|---------------------|--|
| <code>enabled</code>         | boolean             | Enables the predictive prefetching behavior.   |
| <code>accuracy Target</code> | enum                | The level of prefetching. A higher level results in better client performance, but potentially greater load on the origin. |
|                              | <code>LOW</code>    | Low.   |
|                              | <code>MEDIUM</code> | Medium.  |
|                              | <code>HIGH</code>   | High.  |

## prefetch

- **Property Manager name:** [Prefetch Objects](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `prefetch` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Instructs edge servers to retrieve content linked from requested pages as they load, rather than waiting for separate requests for the linked content. This behavior applies depending on the rule's set of matching conditions. Use in conjunction with the [prefetchable](#) behavior, which specifies the set of objects to prefetch.

| Option | Type | Description |
|--------|------|-------------|
|--------|------|-------------|

| Option  | Type    | Description                                |
|---------|---------|--|
| enabled | boolean | Applies prefetching behavior when enabled. |

## prefetchable

- **Property Manager name:** [Prefetchable Objects](#) <sup>✎</sup>
- **Behavior version:** The v2019-07-25 rule format supports the prefetchable behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allow matching objects to prefetch into the edge cache as the parent page that links to them loads, rather than waiting for a direct request. This behavior applies depending on the rule's set of matching conditions. Use [prefetch](#) to enable the overall behavior for parent pages that contain links to the object. To apply this behavior, you need to match on a [filename](#) or [fileExtension](#) .

| Option  | Type    | Description   |
|---------|---------|---|
| enabled | boolean | Allows matching content to prefetch when referenced on a requested parent page. |

## prefreshCache


- **Property Manager name:** [Cache Prefreshing](#) <sup>✎</sup>
- **Behavior version:** The v2019-07-25 rule format supports the prefetchCache behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Refresh cached content before its time-to-live (TTL) expires, to keep end users from having to wait for the origin to provide fresh content.

Prefreshing starts asynchronously based on a percentage of remaining TTL. The edge serves the prefreshed content only after the TTL expires. If the percentage is set too high, and there is not enough time to retrieve the object, the end user waits for it to refresh from the origin, as is true by default without this prefetch behavior enabled. The edge does not serve stale content.

| Option      | Type          | Description  |
|-------------|---------------|--|
| enabled     | boolean       | Enables the cache prefreshing behavior.  |
| prefreshval | number (0-99) | Specifies when the prefetch occurs as a percentage of the TTL. For example, for an object whose cache has 10 minutes left to live, and an origin response that is routinely less than 30 seconds, a percentage of 95 prefreshes the content without unnecessarily increasing load on the origin. |


## quicBeta

- **Property Manager name:** [QUIC Support \(Beta\)](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `quicBeta` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

For a share of responses, includes an `Alt-Svc` header for compatible clients to initiate subsequent sessions using the QUIC protocol.

| Option                           | Type          | Description   |
|----------------------------------|---------------|---|
| <code>enabled</code>             | boolean       | Enables QUIC support.   |
| <code>quicOfferPercentage</code> | number (1-50) | The percentage of responses for which to allow QUIC sessions. |


## randomSeek

- **Property Manager name:** [Random Seek](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `randomSeek` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Optimizes `.flv` and `.mp4` files to allow random jump-point navigation.

| Option                    | Type    | Description   | <a href="#">Requires</a>              |
|---------------------------|---------|---|---------------------------------------|
| <code>flv</code>          | boolean | Enables random seek optimization in FLV files.  |                                       |
| <code>mp4</code>          | boolean | Enables random seek optimization in MP4 files.  |                                       |
| <code>maximum Size</code> | string  | Sets the maximum size of the MP4 file to optimize, expressed as a number suffixed with a unit string such as <code>MB</code> or <code>GB</code> . | <code>mp4</code> is <code>true</code> |

## rapid

- **Property Manager name:** [Akamai API Gateway](#) 
- **Behavior version:** The `v2019-07-25` rule format supports the `rapid` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Akamai API Gateway](#) allows you to configure API traffic delivered over the Akamai network. Apply this behavior to a set of API assets, then use Akamai's [API Endpoints API](#) to configure how the traffic responds. Use the [API Keys and Traffic Management API](#) to control access to your APIs.

| Option  | Type    | Description   |
|---------|---------|---|
| enabled | boolean | Enables API Gateway for the current set of content. |

## readTimeout

- **Property Manager name:** [Read Timeout](#)
- **Behavior version:** The v2019-07-25 rule format supports the readTimeout behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior specifies how long the edge server should wait for a response from the requesting forward server after a connection has already been established. Any failure to read aborts the request and sends a 504 Gateway Timeout error to the client. Contact Akamai Professional Services for help configuring this behavior.

| Option | Type              | Description  |
|--------|-------------------|--|
| value  | string (duration) | Specifies the read timeout necessary before failing with a 504 error. This value should never be zero. |

## realUserMonitoring

- **Property Manager name:** [Real User Monitoring \(RUM\)](#)
- **Behavior version:** The v2019-07-25 rule format supports the realUserMonitoring behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Real User Monitoring (RUM) injects JavaScript into HTML pages served to end-user clients that monitors page-load performance and reports on various data, such as browser type and geographic location. The [report](#) behavior allows you to configure logs.

| Option  | Type    | Description                                  |
|---------|---------|--|
| enabled | boolean | When enabled, activates real-use monitoring. |

# redirect

- **Property Manager name:** [Redirect](#)✱
- **Behavior version:** The v2019-07-25 rule format supports the `redirect` behavior v1.4.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Respond to the client request with a redirect without contacting the origin. Specify the redirect as a path expression starting with a `/` character relative to the current root, or as a fully qualified URL. This behavior relies primarily on `destinationHostname` and `destinationPath` to manipulate the hostname and path independently.

See also the [redirectplus](#) behavior, which allows you to use [variables](#) more flexibly to express the redirect's destination.

| Option                           | Type  | Description  | <a href="#">Requires</a>                                       |
|----------------------------------|---|--|--|
| mobile<br>Default<br>Choice      | enum  | Either specify a default response for mobile browsers, or customize your own.  |  |
|                                  | DEFAULT                                       | Allows all other <code>responseCode</code> values.   |  |
|                                  | MOBILE  | Allows only a 302 response code.   |  |
| destination<br>Protocol          | enum  | Choose the protocol for the redirect URL.  |  |
|                                  | SAME_AS_REQUEST                               | Pass through the original protocol.  |  |
|                                  | HTTP  | Use <code>http</code> .  |  |
|                                  | HTTPS   | Use <code>https</code> .   |  |
| destination<br>Hostname          | enum  | Specify how to change the requested hostname, independently from the pathname.   |  |
|                                  | SAME_AS_REQUEST                               | Preserves the hostname unchanged.  |  |
|                                  | SUBDOMAIN                                     | Prepends a subdomain from the <code>destinationHostnameSubdomain</code> field.   |  |
|                                  | SIBLING                                       | Replaces the leftmost subdomain with the <code>destinationHostnameSibling</code> field.  |  |
|                                  | OTHER   | Specifies a static domain in the <code>destinationHostnameOther</code> field.  |  |
| destination<br>Hostname<br>Other | string<br>(allows <a href="#">variables</a> ) | Specifies the full hostname with which to replace the current hostname.  | <code>destination<br/>Hostname</code> is<br>OTHER              |
| destination<br>Path              | enum  | Specify how to change the requested pathname, independently from the hostname.   |  |
|                                  | SAME_AS_REQUEST                               | Preserves the current path unchanged.  |  |
|                                  | PREFIX_REQUEST                                | Prepends a path with the <code>destinationPathPrefix</code> field. You also have the option to specify a suffix using <code>destinationPathSuffix</code> and <code>destinationPathSuffixStatus</code> .  |  |
|                                  | OTHER   | Replaces the current path with the <code>destinationPathOther</code> field.  |  |
| destination<br>PathPrefix        | string<br>(allows <a href="#">variables</a> ) | When <code>destinationPath</code> is set to <code>PREFIX_REQUEST</code> , this prepends the current path. For example, a value of <code>/prefix/path</code> changes <code>/example/index.html</code> to <code>/prefix/path/example/index.html</code> . | <code>destinationPath</code><br>is <code>PREFIX_REQUEST</code> |

| Option                      | Type                                       | Description   | Requires  |
|-----------------------------|--|---|---|
| destinationPathSuffixStatus | enum                                       | When <code>destinationPath</code> is set to <code>PREFIX_REQUEST</code> , this gives you the option of adding a suffix.   | <code>destinationPath</code> is <code>PREFIX_REQUEST</code>     |
|                             | <code>NO_SUFFIX</code>                     | Specify if you want to preserve the end of the path unchanged.  |   |
|                             | <code>SUFFIX</code>                        | The <code>destinationPathSuffix</code> provides the value.  |   |
| destinationPathSuffix       | string (allows <a href="#">variables</a> ) | When <code>destinationPath</code> is set to <code>PREFIX_REQUEST</code> and <code>destinationPathSuffixStatus</code> is set to <code>SUFFIX</code> , this specifies the suffix to append to the path. | <code>destinationPathSuffixStatus</code> is <code>SUFFIX</code> |
| destinationPathOther        | string (allows <a href="#">variables</a> ) | When <code>destinationPath</code> is set to <code>PREFIX_REQUEST</code> , this replaces the current path.   | <code>destinationPath</code> is <code>OTHER</code>              |
| queryString                 | boolean                                    | When set to <code>APPEND</code> , passes incoming query string parameters as part of the redirect URL. Otherwise set this to <code>IGNORE</code> .  |   |
| responseCode                | enum                                       | Specify the redirect's response code.   |   |
|                             |  | <b>Supported values:</b><br><code>301</code> <code>302</code> <code>303</code> <code>307</code>   |   |

## redirectplus

- **Property Manager name:** [Redirect Plus](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `redirectplus` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Respond to the client request with a redirect without contacting the origin. This behavior fills the same need as [redirect](#), but allows you to use [variables](#) to express the redirect `destination`'s component values more concisely.

| Option       | Type                                       | Description   |
|--------------|--|---|
| enabled      | boolean                                    | Enables the redirect feature.   |
| destination  | string (allows <a href="#">variables</a> ) | Specifies the redirect as a path expression starting with a <code>/</code> character relative to the current root, or as a fully qualified URL. Optionally inject variables, as in this example that refers to the original request's filename: <code>/path/to/{{builtin.AK_FILENAME}}</code> . |
| responseCode | enum                                       | Assigns the status code for the redirect response.  |
|              |  | <b>Supported values:</b><br><code>301</code> <code>302</code> <code>303</code> <code>307</code>   |

## refererChecking

- **Property Manager name:** [Legacy Referrer Checking](#)
- **Behavior version:** The v2019-07-25 rule format supports the refererChecking behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Limits allowed requests to a set of domains you specify.

| Option         | Type         | Description  |
|----------------|--------------|--|
| enabled        | boolean      | Enables the referer-checking behavior.   |
| strict         | boolean      | When enabled, excludes requests whose Referer header include a relative path, or that are missing a Referer . When disabled, only excludes requests whose Referer hostname is not part of the domains set. |
| domains        | string array | Specifies the set of allowed domains. With allowChildren disabled, prefixing values with *. specifies domains for which subdomains are allowed.  |
| allow Children | boolean      | Allows all subdomains for the domains set, just like adding a *. prefix to each.   |

## removeQueryParam

- **Property Manager name:** [Remove Outgoing Request Parameters](#)
- **Behavior version:** The v2019-07-25 rule format supports the removeQueryParam behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Remove named query parameters before forwarding the request to the origin.

| Option     | Type         | Description                                      |
|------------|--------------|--|
| parameters | string array | Specifies parameters to remove from the request. |

## removeVary

- **Property Manager name:** [Remove Vary Header](#)
- **Behavior version:** The v2019-07-25 rule format supports the removeVary behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

By default, responses that feature a vary header value of anything other than Accept-Encoding and a corresponding Content-Encoding: gzip header aren't cached on edge servers. Vary headers indicate when a URL's content varies depending on some variable, such as which User-Agent requests it. This behavior simply removes the vary header to make responses cacheable.

**Warning.** If your site relies on `Vary: User-Agent` to customize content, removing the header may lead the edge to serve content inappropriate for specific devices.

| Option               | Type    | Description   |
|----------------------|---------|---|
| <code>enabled</code> | boolean | When enabled, removes the <code>Vary</code> header to ensure objects can be cached. |

## report

- **Property Manager name:** [Log Request Details](#)<sup>¶</sup>
- **Behavior version:** The `v2019-07-25` rule format supports the `report` behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specify the HTTP request headers or cookie names to log in your Log Delivery Service reports.

| Option                         | Type  | Description  | <a href="#">Requires</a>                            |
|--------------------------------|---|--|---|
| <code>logHost</code>           | boolean                                       | Log the <code>Host</code> header.  |   |
| <code>logReferer</code>        | boolean                                       | Log the <code>Referer</code> header.   |   |
| <code>logUserAgent</code>      | boolean                                       | Log the <code>User-Agent</code> header.  |   |
| <code>logAcceptLanguage</code> | boolean                                       | Log the <code>Accept-Language</code> header.   |   |
| <code>logCookies</code>        | enum  | Specifies the set of cookies to log.   |   |
|                                | <code>OFF</code>                              | Do not log cookies.  |   |
|                                | <code>ALL</code>                              | Log all cookies.   |   |
|                                | <code>SOME</code>                             | A specific set of cookies .  |   |
| <code>cookies</code>           | string array                                  | This specifies the set of cookies names whose values you want to log.  | <code>logCookies</code> is <code>SOME</code>        |
| <code>logCustomLogField</code> | boolean                                       | Whether to append additional custom data to each log line.   |   |
| <code>customLogField</code>    | string<br>(allows <a href="#">variables</a> ) | Specifies an additional data field to append to each log line, maximum 40 bytes, typically based on a dynamically generated built-in system variable. For example, <code>round-trip: {{builtin.AK_CLIENT_TURNAROUND_TIME}}ms</code> logs the total time to complete the response. See <a href="#">Support for variables</a> for more information. If you enable the <a href="#">logCustom</a> behavior, it overrides the <code>customLogField</code> option. | <code>logCustomLogField</code> is <code>true</code> |

## requestControl



- **Property Manager name:** [Request Control Cloudlet](#)<sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the requestControl behavior v3.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Request Control Cloudlet allows you to control access to your web content based on the incoming request's IP or geographic location. With Cloudlets available on your contract, choose **Your services** <> **Edge logic Cloudlets** to control how the feature works within [Control Center](#)<sup>↗</sup>, or use the [Cloudlets API](#)<sup>↗</sup> to configure it programmatically.

| Option                         | Type          | Description   | Requires   |
|--------------------------------|---------------|---|--|
| enabled                        | boolean       | Enables the Request Control Cloudlet.   |  |
| cloudletPolicy                 | object        | Identifies the Cloudlet policy.   |  |
| cloudletPolicy.id              | number        | Identifies the Cloudlet.  |  |
| cloudletPolicy.name            | string        | The Cloudlet's descriptive name.  |  |
| enableBranded403               | boolean       | If enabled, serves a branded 403 page for this Cloudlet instance.   |  |
| branded403Status Code          | enum          | Specifies the response status code for the branded deny action.   | enableBranded403 is true   |
|                                |               | <b>Supported values:</b><br><div>200      302      403      503</div>   |  |
| netStorage                     | object        | Specifies the NetStorage domain that contains the branded 403 page.   | enableBranded403 is true<br>AND branded403Status Code is not 302 |
| netStorage.cpCode List         | array         | A set of CP codes that apply to this storage group.   |  |
| netStorage.download DomainName | string        | Domain name from which content can be downloaded.   |  |
| netStorage.id                  | number        | Unique identifier for the storage group.  |  |
| netStorage.name                | string        | Name of the storage group.  |  |
| netStorage.upload DomainName   | string        | Domain name used to upload content.   |  |
| branded403File                 | string        | Specifies the full path of the branded 403 page, including the filename, but excluding the NetStorage CP code path component. | enableBranded403 is true<br>AND branded403Status Code is not 302 |
| branded403Url                  | string        | Specifies the redirect URL for the branded deny action.   | enableBranded403 is true<br>AND branded403Status Code is 302     |
| brandedDenyCache Ttl           | number (5-30) | Specifies the branded response page's time to live in the cache, 5 minutes by default.  | enableBranded403 is true<br>AND branded403Status Code is not 302 |

## requestTypeMarker

- **Property Manager name:** [Request Type Marker](#)
- **Behavior version:** The v2019-07-25 rule format supports the requestTypeMarker behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Internet of Things: OTA Updates](#) product allows customers to securely distribute firmware to devices over cellular networks. When using the [downloadCompleteMarker](#) behavior to log successful downloads, this related behavior identifies download or campaign server types in aggregated and individual reports.

| Option      | Type            | Description                    |
|-------------|-----------------|--------------------------------|
| requestType | enum            | Specifies the type of request. |
|             | DOWNLOAD        | Download.                      |
|             | CAMPAIGN_SERVER | Campaign server.               |

## resourceOptimizer

- **Property Manager name:** [Resource Optimizer](#)
- **Behavior version:** The v2019-07-25 rule format supports the resourceOptimizer behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Resource Optimizer helps compress and cache web resources such as JavaScript, CSS, and font files.

| Option  | Type    | Description                             |
|---------|---------|---|
| enabled | boolean | Enables the Resource Optimizer feature. |

## restrictObjectCaching

- **Property Manager name:** [Object Caching](#)
- **Behavior version:** The v2019-07-25 rule format supports the restrictObjectCaching behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

You need this behavior to deploy the Object Caching product. It disables serving HTML content and limits the maximum object size to 100MB. Contact Akamai Professional Services for help configuring it.

This behavior object does not support any options. Specifying the behavior enables it.

## resourceOptimizerExtendedCompatibility

- **Property Manager name:** [Resource Optimizer Extended Compatibility](#)
- **Behavior version:** The v2019-07-25 rule format supports the resourceOptimizerExtendedCompatibility behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The Resource Optimizer helps compress and cache web resources such as JavaScript, CSS, and font files.

| Option            | Type    | Description   |
|-------------------|---------|---|
| enabled           | boolean | Enables the Resource Optimizer feature.             |
| enableAllFeatures | boolean | Enables the full set of Resource Optimizer feature. |

## responseCode

- **Property Manager name:** [Set Response Code](#)
- **Behavior version:** The v2019-07-25 rule format supports the responseCode behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Change the existing response code. For example, if your origin sends a 301 permanent redirect, this behavior can change it on the edge to a temporary 302 redirect.

| Option      | Type    | Description  | Requires           |
|-------------|---------|--|--------------------|
| statusCode  | enum    | The HTTP status code to replace the existing one.  |                    |
|             |         | <b>Supported values:</b><br><br>100 102 122 201 203 205 207 300 302 304 306 308 401 403 405 407 409<br>101 103 200 202 204 206 226 301 303 305 307 400 402 404 406 408 410 |                    |
| override206 | boolean | Allows any specified 200 success code to override a 206 partial-content code, in which case the response's content length matches the requested range length.              | status Code is 200 |

# rmaOptimization

- **Property Manager name:** [RMA Optimizations \(RMA\)](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the rmaOptimization behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior is deprecated. Do not add it to any properties.

This behavior object does not support any options. Specifying the behavior enables it.

# responseCookie

- **Property Manager name:** [Set Response Cookie](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the responseCookie behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Set a cookie to send downstream to the client with either a fixed value or a unique stamp.

| Option         | Type  | Description   | <a href="#">Requires</a> |
|----------------|---|---|--------------------------|
| cookie Name    | string<br>(allows <a href="#">variables</a> ) | Specifies the name of the cookie, which serves as a key to determine if the cookie is set.  |                          |
| enabled        | boolean                                       | Allows you to set a response cookie.  |                          |
| type           | enum  | What type of value to assign.   |                          |
|                | FIXED   | Assign a FIXED value based on the value field.  |                          |
|                | UNIQUE  | Assign a unique value.  |                          |
| value          | string<br>(allows <a href="#">variables</a> ) | If the cookie type is FIXED , this specifies the cookie value.  | type is FIXED            |
| format         | enum  | When the type of cookie is set to UNIQUE , this sets the date format.   | type is UNIQUE           |
|                | AKAMAI  | Akamai format, which adds milliseconds to the date stamp.   |                          |
|                | APACHE  | Apache format.  |                          |
| default Domain | boolean                                       | When enabled, uses the default domain value, otherwise the set specified in the domain field.   |                          |
| default Path   | boolean                                       | When enabled, uses the default path value, otherwise the set specified in the path field.   |                          |
| domain         | string<br>(allows <a href="#">variables</a> ) | If the defaultDomain is disabled, this sets the domain for which the cookie is valid. For example, example.com makes the cookie valid for that hostname and all subdomains. | default Domain is false  |

| Option         | Type  | Description   | Requires  |
|----------------|---|---|---|
| path           | string<br>(allows <a href="#">variables</a> ) | If the <code>defaultPath</code> is disabled, sets the path component for which the cookie is valid.                   | <code>defaultPath</code> is false               |
| expires        | enum  | Sets various ways to specify when the cookie expires.   |   |
|                | ON_BROWSER_CLOSE                              | Limit the cookie to the duration of the session.  |   |
|                | FIXED_DATE                                    | Requires a corresponding <code>expirationDate</code> field value.   |   |
|                | DURATION                                      | Requires a corresponding <code>duration</code> field value.   |   |
|                | NEVER   | Let the cookie persist indefinitely.  |   |
| expirationDate | string<br>(epoch timestamp)                   | If <code>expires</code> is set to <code>FIXED_DATE</code> , this sets when the cookie expires as a UTC date and time. | <code>expires</code> is <code>FIXED_DATE</code> |
| duration       | string (duration)                             | If <code>expires</code> is set to <code>DURATION</code> , this sets the cookie's lifetime.                            | <code>expires</code> is <code>DURATION</code>   |
| secure         | boolean                                       | When enabled, sets the cookie's <code>Secure</code> flag to transmit it with <code>HTTPS</code> .                     |   |

## rewriteUrl

- **Property Manager name:** [Modify Outgoing Request Path](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `rewriteUrl` behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Modifies the path of incoming requests to forward to the origin. This helps you offload URL-rewriting tasks to the edge to increase the origin server's performance, allows you to redirect links to different targets without changing markup, and hides your original directory structure.

Except for regular expression replacements, this behavior manipulates *path expressions*, which start and end with a `/` character.

| Option   | Type          | Description   | Requires |
|----------|---------------|---|----------|
| behavior | enum          | The action to perform on the path.  |          |
|          | REPLACE       | Specify the <code>match</code> and <code>targetPath</code> . For example, a <code>match</code> of <code>/path1/</code> and a <code>targetPath</code> of <code>/path1/path2/</code> changes <code>/path1/page.html</code> to <code>/path1/path2/page.html</code> . |          |
|          | REMOVE        | Specify the <code>match</code> . For example, a <code>match</code> of <code>/path2/</code> changes <code>/path1/path2/page.html</code> to <code>/path1/page.html</code> .   |          |
|          | REWRITE       | Specify the <code>targetUrl</code> . For example, you can direct traffic to <code>/error/restricted.html</code> .   |          |
|          | PREPEND       | Specify the <code>targetPathPrepend</code> . For example, if set to <code>/prefix/</code> , <code>/path1/page.html</code> changes to <code>/prefix/path1/page.html</code> .   |          |
|          | REGEX_REPLACE | Specify the <code>matchRegex</code> and <code>targetRegex</code> . For example, specifying <code>logo\.(png gif jpe?g)</code> and <code>brand\$1</code> changes <code>logo.png</code> to <code>brand.png</code> .   |          |

| Option                    | Type  | Description  | Requires   |
|---------------------------|---|--|--|
| match                     | string  | When <code>behavior</code> is <code>REMOVE</code> or <code>REPLACE</code> , specifies the part of the incoming path you'd like to remove or modify.  | <code>behavior</code> is either: <code>REMOVE</code> , <code>REPLACE</code>                              |
| match<br>Regex            | string  | When <code>behavior</code> is set to <code>REGEX_REPLACE</code> , specifies the Perl-compatible regular expression to replace with <code>targetRegex</code> .  | <code>behavior</code> is <code>REGEX_REPLACE</code>  |
| target<br>Regex           | string<br>(allows <a href="#">variables</a> ) | When <code>behavior</code> is set to <code>REGEX_REPLACE</code> , this replaces whatever the <code>match</code> <code>Regex</code> field matches, along with any captured sequences from <code>\\$1</code> through <code>\\$9</code> . | <code>behavior</code> is <code>REGEX_REPLACE</code>  |
| target<br>Path            | string<br>(allows <a href="#">variables</a> ) | When <code>behavior</code> is set to <code>REPLACE</code> , this path replaces whatever the <code>match</code> field matches in the incoming request's path.   | <code>behavior</code> is <code>REPLACE</code>  |
| target<br>Path<br>Prepend | string<br>(allows <a href="#">variables</a> ) | When <code>behavior</code> is set to <code>PREPEND</code> , specifies a path to prepend to the incoming request's URL.   | <code>behavior</code> is <code>PREPEND</code>  |
| target<br>Url             | string<br>(allows <a href="#">variables</a> ) | When <code>behavior</code> is set to <code>REWRITE</code> , specifies the full path to request from the origin.  | <code>behavior</code> is <code>REWRITE</code>  |
| match<br>Multiple         | boolean                                       | When enabled, replaces all potential matches rather than only the first.   | <code>behavior</code> is either: <code>REMOVE</code> , <code>REPLACE</code> , <code>REGEX_REPLACE</code> |
| keep<br>Query<br>String   | boolean                                       | When enabled, retains the original path's query parameters.  | <code>behavior</code> is not <code>REWRITE</code>  |

## rumCustom

- **Property Manager name:** [RUM SampleRate](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `rumCustom` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

With [realUserMonitoring](#) enabled, this configures the sample of data to include in your RUM report.

| Option            | Type           | Description  |
|-------------------|----------------|--|
| rumSample<br>Rate | number (0-100) | Specifies the percentage of web traffic to include in your RUM report.   |
| rumGroup<br>Name  | string         | A deprecated option to specify an alternate name under which to batch this set of web traffic in your report. Do not use it. |

## saasDefinitions

- **Property Manager name:** [SaaS Definitions](#)

- **Behavior version:** The `v2019-07-25` rule format supports the `saasDefinitions` behavior v3.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Configures how the Software as a Service feature identifies *customers*, *applications*, and *users*. A different set of options is available for each type of targeted request, each enabled with the `action`-suffixed option. In each case, you can use `PATH`, `COOKIE`, `QUERY_STRING`, or `HOSTNAME` components as identifiers, or `disable` the SaaS behavior for certain targets. If you rely on a `HOSTNAME`, you also have the option of specifying a *CNAME chain* rather than an individual hostname. The various options suffixed `regex` and `replace` subsequently remove the identifier from the request. This behavior requires a sibling `origin` behavior whose `originType` option is set to `SAAS_DYNAMIC_ORIGIN`.

| Option                               | Type                      | Description   | <a href="#">Requires</a>   |
|--------------------------------------|---------------------------|---|--|
| <code>customerAction</code>          | enum                      | Specifies the request component that identifies a SaaS customer.  |  |
|                                      | <code>DISABLED</code>     | This effectively ignores customers.   |  |
|                                      | <code>HOSTNAME</code>     | In a hostname.  |  |
|                                      | <code>PATH</code>         | In the URL path.  |  |
|                                      | <code>QUERY_STRING</code> | In a query parameter.   |  |
|                                      | <code>COOKIE</code>       | In a cookie.  |  |
| <code>customerCnameEnabled</code>    | boolean                   | Enabling this allows you to identify customers using a <i>CNAME chain</i> rather than a single hostname.    | <code>customerAction</code> is <code>HOSTNAME</code>   |
| <code>customerCnameLevel</code>      | number                    | Specifies the number of CNAMEs to use in the chain.   | <code>customerCnameEnabled</code> is <code>true</code>   |
| <code>customerCookie</code>          | string                    | This specifies the name of the cookie that identifies the customer.   | <code>customerAction</code> is <code>COOKIE</code>   |
| <code>customerQueryString</code>     | string                    | This names the query parameter that identifies the customer.  | <code>customerAction</code> is <code>QUERY_STRING</code>   |
| <code>customerRegex</code>           | string                    | Specifies a Perl-compatible regular expression with which to substitute the request's customer ID.          | <code>customerAction</code> is either: <code>HOSTNAME</code> , <code>PATH</code> , <code>COOKIE</code> , <code>QUERY_STRING</code> |
| <code>customerReplace</code>         | string                    | Specifies a string to replace the request's customer ID matched by <code>customerRegex</code> .             | <code>customerAction</code> is either: <code>HOSTNAME</code> , <code>PATH</code> , <code>COOKIE</code> , <code>QUERY_STRING</code> |
| <code>applicationAction</code>       | enum                      | Specifies the request component that identifies a SaaS application.   |  |
|                                      | <code>DISABLED</code>     | This effectively ignores applications.  |  |
|                                      | <code>HOSTNAME</code>     | In the hostname.  |  |
|                                      | <code>PATH</code>         | In the URL path.  |  |
|                                      | <code>QUERY_STRING</code> | In a query parameter.   |  |
|                                      | <code>COOKIE</code>       | In a cookie.  |  |
| <code>applicationCnameEnabled</code> | boolean                   | Enabling this allows you to identify applications using a <i>CNAME chain</i> rather than a single hostname. | <code>applicationAction</code> is <code>HOSTNAME</code>  |
| <code>applicationCnameLevel</code>   | number                    | Specifies the number of CNAMEs to use in the chain.   | <code>applicationCnameEnabled</code> is <code>true</code>  |
| <code>applicationCookie</code>       | string                    | This specifies the name of the cookie that identifies the application.                                      | <code>applicationAction</code> is <code>COOKIE</code>  |
| <code>applicationQueryString</code>  | string                    | This names the query parameter that identifies the application.   | <code>applicationAction</code> is <code>QUERY_STRING</code>  |

| Option             | Type         | Description   | Requires   |
|--------------------|--------------|---|--|
| applicationRegex   | string       | Specifies a Perl-compatible regular expression with which to substitute the request's application ID. | applicationAction is either: HOSTNAME , PATH , COOKIE , QUERY_STRING |
| applicationReplace | string       | Specifies a string to replace the request's application ID matched by applicationRegex .              | applicationAction is either: HOSTNAME , PATH , COOKIE , QUERY_STRING |
| usersAction        | enum         | Specifies the request component that identifies a SaaS user.  |  |
|                    | DISABLED     | This effectively ignores users.   |  |
|                    | HOSTNAME     | In a hostname.  |  |
|                    | PATH         | In the URL path.  |  |
|                    | QUERY_STRING | In a query parameter.   |  |
|                    | COOKIE       | In a cookie.  |  |
| usersCNameEnabled  | boolean      | Enabling this allows you to identify users using a <i>CNAME chain</i> rather than a single hostname.  | usersAction is HOSTNAME  |
| usersCNameLevel    | number       | Specifies the number of CNAMEs to use in the chain.   | usersCNameEnabled is true  |
| usersCookie        | string       | This specifies the name of the cookie that identifies the user.                                       | usersAction is COOKIE  |
| usersQueryString   | string       | This names the query parameter that identifies the user.  | usersAction is QUERY_STRING  |
| usersRegex         | string       | Specifies a Perl-compatible regular expression with which to substitute the request's user ID.        | usersAction is either: HOSTNAME , PATH , COOKIE , QUERY_STRING       |
| usersReplace       | string       | Specifies a string to replace the request's user ID matched by usersRegex .                           | usersAction is either: HOSTNAME , PATH , COOKIE , QUERY_STRING       |

## salesForceCommerceCloudClient

- **Property Manager name:** [Akamai Connector for Salesforce Commerce Cloud](#)
- **Behavior version:** The v2019-07-25 rule format supports the salesForceCommerceCloudClient behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

If you use the Salesforce Commerce Cloud platform for your origin content, this behavior allows your edge content managed by Akamai to contact directly to origin.

| Option      | Type  | Description   | Requires |
|-------------|---|---|----------|
| enabled     | boolean                                       | Enables the Akamai Connector for Salesforce Commerce Cloud.   |          |
| connectorId | string<br>(allows <a href="#">variables</a> ) | An ID value that helps distinguish different types of traffic sent from Akamai to the Salesforce Commerce Cloud. Form the value as <i>instance-realm-customer</i> , where <i>instance</i> is either <i>production</i> or <i>development</i> , <i>realm</i> is your Salesforce Commerce Cloud service \$REALM value, and <i>customer</i> is the name for your organization in Salesforce Commerce Cloud. You can use alphanumeric characters, underscores, or dot characters within dash-delimited segment values. |          |
| originType  | enum  | Specifies where the origin is.  |          |



| Option                         | Type  | Description   | Requires                      |
|--------------------------------|---|---|-------------------------------|
|                                | DEFAULT                                       | Use a default Salesforce origin.  |                               |
|                                | CUSTOMER                                      | Customize the origin.   |                               |
| sf3cOrigin Host                | string<br>(allows <a href="#">variables</a> ) | This specifies the hostname or IP address of the custom Salesforce origin.      | originType is CUSTOMER        |
| origin Host Header             | enum  | Specifies where the Host header is defined.                                     |                               |
|                                | DEFAULT                                       | Use the default Salesforce header.  |                               |
|                                | CUSTOMER                                      | Customize the header.   |                               |
| sf3cOrigin Host Header         | string<br>(allows <a href="#">variables</a> ) | This specifies the hostname or IP address of the custom Salesforce host header. | originHost Header is CUSTOMER |
| allow Override Origin CacheKey | boolean                                       | When enabled, overrides the forwarding origin's cache key.                      |                               |

## salesForceCommerceCloudProvider

- **Property Manager name:** [Akamai Provider for Salesforce Commerce Cloud](#)
- **Behavior version:** The v2019-07-25 rule format supports the salesForceCommerceCloudProvider behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This manages traffic between mutual customers and the Salesforce Commerce Cloud platform.

| Option  | Type    | Description  |
|---------|---------|--|
| enabled | boolean | Enables Akamai Provider for Salesforce Commerce Cloud. |

## salesForceCommerceCloudProviderHostHeader

- **Property Manager name:** [Akamai Provider for Salesforce Commerce Cloud Host Header Control](#)
- **Behavior version:** The v2019-07-25 rule format supports the salesForceCommerceCloudProviderHostHeader behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Manages host header values sent to the Salesforce Commerce Cloud platform.

| Option           | Type     | Description                                 |
|------------------|----------|---|
| hostHeaderSource | enum     | Specify where the host header derives from. |
|                  | PROPERTY | From this property.                         |
|                  | CUSTOMER | From the customer's property.               |

## savePostDcaProcessing

- **Property Manager name:** [Save POST DCA processing result](#)<sup>¶</sup>
- **Behavior version:** The v2019-07-25 rule format supports the savePostDcaProcessing behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

Used in conjunction with the [cachePost](#) behavior, this behavior allows the body of POST requests to be processed through Dynamic Content Assembly. Contact Akamai Professional Services for help configuring it.

| Option  | Type    | Description                          |
|---------|---------|--------------------------------------|
| enabled | boolean | Enables processing of POST requests. |

## scheduleInvalidation

- **Property Manager name:** [Scheduled Invalidation](#)<sup>¶</sup>
- **Behavior version:** The v2019-07-25 rule format supports the scheduleInvalidation behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies when cached content that satisfies a rule's criteria expires, optionally at repeating intervals. In addition to periodic cache flushes, you can use this behavior to minimize potential conflicts when related objects expire at different times.

**Warning.** scheduled invalidations can significantly increase origin servers' load when matching content expires simultaneously across all edge servers. As best practice, schedule expirations during periods of lowest traffic.

| Option | Type               | Description  | <a href="#">Requires</a> |
|--------|--------------------|--|--------------------------|
| start  | string (timestamp) | The UTC date and time when matching cached content is to expire.                                     |                          |
| repeat | boolean            | When enabled, invalidation recurs periodically from the start time based on the repeatInterval time. |                          |

| Option             | Type                 | Description   | Requires          |
|--------------------|----------------------|---|-------------------|
| repeat<br>Interval | string<br>(duration) | Specifies how often to invalidate content from the <code>start</code> time, expressed in seconds. For example, an expiration set to midnight and an interval of <code>86400</code> seconds invalidates content once a day. Repeating intervals of less than 5 minutes are not allowed for <a href="#">NetStorage</a> origins. | repeat is<br>true |
| refresh<br>Method  | enum                 | Specifies how to invalidate the content.  |                   |
|                    | INVALIDATE           | Sends an <code>If-Modified-Since</code> request to the origin, re-caching the content only if it is fresher.  |                   |
|                    | PURGE                | Re-caches content regardless of its freshness, potentially creating more traffic at the origin.   |                   |

## scriptManagement

- **Property Manager name:** [Script Management](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `scriptManagement` behavior v1.4.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Ensures unresponsive linked JavaScript files do not prevent HTML pages from loading.

| Option        | Type                       | Description  | Requires                       |
|---------------|----------------------------|--|--------------------------------|
| enabled       | boolean                    | Enables the Script Management feature.   |                                |
| serviceworker | enum                       | Choose <code>NO_SERVICE_WORKER</code> to simply view script insights within the Akamai Control Panel. Choose <code>YES_SERVICE_WORKER</code> to configure additional script actions, and to activate policies. |                                |
|               | YES_<br>SERVICE_<br>WORKER | Configure additional script actions, and to activate policies.   |                                |
|               | NO_<br>SERVICE_<br>WORKER  | Only view script insights.   |                                |
| timestamp     | number                     | A read-only epoch timestamp value used for synchronization.  | enabled<br>is never<br>visible |


## shutr

- **Property Manager name:** [SHUTR](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `shutr` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The SHUTR protocol extends HTTP to reduce the amount of header data necessary for web transactions with mobile devices.

This behavior object does not support any options. Specifying the behavior enables it.

## segmentedContentProtection

- **Property Manager name:** [Segmented Media Protection](#) 
- **Behavior version:** The v2019-07-25 rule format supports the `segmentedContentProtection` behavior v1.7.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Validates authorization tokens at the edge server to prevent unauthorized link sharing.

| Option                          | Type         | Description   | <a href="#">Requires</a>          |
|---------------------------------|--------------|---|-----------------------------------|
| <code>enabled</code>            | boolean      | Enables the segmented content protection behavior.  |                                   |
| <code>key</code>                | object array | Specifies the encryption key to use as a shared secret to validate tokens.  |                                   |
| <code>use Advanced</code>       | boolean      | Allows you to specify advanced <code>transitionKey</code> and <code>salt</code> options.  |                                   |
| <code>transitionKey</code>      | object array | An alternate encryption key to match along with the <code>key</code> field, allowing you to rotate keys with no down time.  | <code>use Advanced is true</code> |
| <code>salt</code>               | object array | Specifies a salt as input into the token for added security. This value needs to match the salt used in the token generation code.  | <code>use Advanced is true</code> |
| <code>headerFor Salt</code>     | string array | This allows you to include additional salt properties specific to each end user to strengthen the relationship between the session token and playback session. This specifies the set of request headers whose values generate the salt value, typically <code>User-Agent</code> , <code>X-Playback-Session-Id</code> , and <code>Origin</code> . Any specified header needs to appear in the player's request. | <code>use Advanced is true</code> |
| <code>sessionId</code>          | boolean      | Enabling this option carries the <code>session_id</code> value from the access token over to the session token, for use in tracking and counting unique playback sessions.  | <code>use Advanced is true</code> |
| <code>data Payload</code>       | boolean      | Enabling this option carries the <code>data/payload</code> field from the access token over to the session token, allowing access to opaque data for log analysis for a URL protected by a session token.   | <code>use Advanced is true</code> |
| <code>ip</code>                 | boolean      | Enabling this restricts content access to a specific IP address, only appropriate if it does not change during the playback session.  | <code>use Advanced is true</code> |
| <code>acl</code>                | boolean      | Enabling this option carries the <code>ACL</code> field from the access token over to the session token, to limit the requesting client's access to the specific URL or path set in the <code>ACL</code> field. Playback may fail if the base path of the master playlist (and variant playlist, plus segments) varies from that of the <code>ACL</code> field.   | <code>use Advanced is true</code> |
| <code>enable TokenIn URI</code> | boolean      | When enabled, passes tokens in HLS variant manifest URLs and HLS segment URLs, as an alternative to cookies.  |                                   |

| Option                 | Type         | Description   | Requires                   |
|------------------------|--------------|---|----------------------------|
| hlsMasterManifestFiles | string array | Specifies the set of filenames that form HLS master manifest URLs. You can use * wildcard characters, but make sure to specify master manifest filenames uniquely, to distinguish them from variant manifest files. | enableTokenInURI is true   |
| hlsMediaEncryption     | boolean      | Enables HLS Segment Encryption.   |                            |
| encryptionMode         | enum         | Specifies the encryption algorithm.   | hlsMediaEncryption is true |
|                        | AES128       | This is currently the only available value.   |                            |
| useAdvancedOption      | boolean      | Allows you to use advanced encryption options.  | hlsMediaEncryption is true |
| iv                     | object array | Specifies the initialization vector used to generate the encryption key.  | useAdvancedOption is true  |

## segmentedMediaOptimization

- **Property Manager name:** [Segmented Media Delivery Mode](#)
- **Behavior version:** The v2019-07-25 rule format supports the segmentedMediaOptimization behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Optimizes segmented media for live or streaming delivery contexts.

| Option       | Type                     | Description  | Requires                                   |
|--------------|--------------------------|--|--|
| behavior     | enum                     | Sets the type of media content to optimize.  |  |
|              | ON_DEMAND                | Media is available on demand. This is the only option allowed for <a href="#">Net Storage</a> origins. |  |
|              | LIVE                     | Media is streaming live.   |  |
| showAdvanced | boolean                  | Allows you to configure advanced media options.  | behavior is LIVE                           |
| liveType     | enum                     | The type of live media.  | showAdvanced is true                       |
|              | CONTINUOUS               | Not confined to a range of time.   |  |
|              | EVENT                    | An event for a range of time.  |  |
| startTime    | string (epoch timestamp) | This specifies when the live media event begins.   | showAdvanced is true AND liveType is EVENT |
| endTime      | string (epoch timestamp) | This specifies when the live media event ends.   | showAdvanced is true AND liveType is EVENT |
| dvrType      | enum                     | The type of DVR.   | showAdvanced is true                       |
|              | CONFIGURABLE             | A configurable DVR.  |  |

| Option    | Type              | Description  | Requires   |
|-----------|-------------------|--|--|
|           | UNKNOWN           | An unknown DVR.  |  |
| dvrWindow | string (duration) | Set the duration for your media, or 0m if a DVR is not required. | showAdvanced is true<br>AND dvrType is<br>CONFIGURABLE |

## segmentedMediaStreamingPrefetch

- **Property Manager name:** [Segmented Media Streaming - Prefetch](#)
- **Behavior version:** The v2019-07-25 rule format supports the segmentedMediaStreamingPrefetch behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Prefetches HLS and DASH media stream manifest and segment files, accelerating delivery to end users. For prefetching to work, your origin media's response needs to specify `CDN-Origin-Assist-Prefetch-Path` headers with each URL to prefetch, expressed as either a relative or absolute path.

| Option  | Type    | Description                       |
|---------|---------|-----------------------------------|
| enabled | boolean | Enables media stream prefetching. |

## setVariable

- **Property Manager name:** [Set Variable](#)
- **Behavior version:** The v2019-07-25 rule format supports the setVariable behavior v1.5.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Modify a variable to insert into subsequent fields within the rule tree. Use this behavior to specify the predeclared `variableName` and determine from where to derive its new value. Based on this `valueSource`, you can either generate the value, extract it from some part of the incoming request, assign it from another variable (including a set of built-in system variables), or directly specify its text. Optionally choose a `transform` function to modify the value once. See [Support for variables](#) for more information.

| Option        | Type                                     | Description  | Requires |
|---------------|--|--|----------|
| variable Name | string ( <a href="#">variable name</a> ) | Specifies the predeclared root name of the variable to modify. When you declare a variable name such as <code>VAR</code> , its name is prepended with <code>PMUSER_</code> and accessible in a <code>user</code> namespace, so that you invoke it in subsequent text fields within the rule tree as <code>{{user.PMUSER_VAR}}</code> . In deployed <a href="#">XML metadata</a> , it appears as <code>%(PMUSER_VAR)</code> . |          |
| valueSource   | enum                                     | Determines how you want to set the value.  |          |

| Option                   | Type  | Description  | Requires                                 |
|--------------------------|---|--|--|
|                          | EXPRESSION                                    | Specify your own string expression.  |  |
|                          | EXTRACT                                       | Extract it from another value.   |  |
|                          | GENERATE                                      | Generate the value.  |  |
| variable<br>Value        | string<br>(allows <a href="#">variables</a> ) | This directly specifies the value to assign to the variable. The expression may include a mix of static text and other variables, such as <code>new_filename.{{builtin.AK_EXTENSION}}</code> to embed a system variable. | valueSource is<br>EXPRESSION             |
| extract<br>Location      | enum  | This specifies from where to get the value.  | valueSource is<br>EXTRACT                |
|                          | CLIENT_<br>CERTIFICATE                        | Client certificate.  |  |
|                          | CLIENT_REQUEST_<br>HEADER                     | Client request header.   |  |
|                          | COOKIE  | Cookie.  |  |
|                          | EDGESCAPE                                     | For location or network data.  |  |
|                          | PATH_COMPONENT_<br>OFFSET                     | Substring within the URL path.   |  |
|                          | QUERY_STRING                                  | A query parameter.   |  |
|                          | DEVICE_PROFILE                                | For client device attributes.  |  |
|                          | RESPONSE_<br>HEADER                           | A response header.   |  |
|                          | SET_COOKIE                                    | Cookie.  |  |
| certificate<br>FieldName | enum  | Specifies the certificate's content.   | extractLocation is<br>CLIENT_CERTIFICATE |
|                          | VERSION                                       | The certificate's X509 version number.   |  |
|                          | SERIAL  | The serial number, expressed in hex.   |  |
|                          | FINGERPRINT_MD5                               | The hex-encoded MD5 fingerprint.   |  |
|                          | FINGERPRINT_<br>SHA1                          | The hex-encoded SHA1 fingerprint.  |  |
|                          | FINGERPRINT_DYN                               | The hex-encoded fingerprint generated based on the SIGNATURE_ALGORITHM .   |  |
|                          | ISSUER_DN                                     | The <i>distinguished name</i> field for the certificate's issuer.  |  |
|                          | SUBJECT_DN                                    | The <i>distinguished name</i> field for the user.  |  |
|                          | NOT_BEFORE                                    | The start of the time range, expressed in YYYY/MM/DD HH:MI:SS ZONE format, where the zone is optional.   |  |
|                          | NOT_AFTER                                     | The end of the time range, expressed in YYYY/MM/DD HH:MI:SS ZONE format, where the zone is optional.   |  |
|                          | SIGNATURE_<br>ALGORITHM                       | The algorithm used to generate the certificate's signature.  |  |
|                          | SIGNATURE                                     | The certificate's signature, expressed in hex.   |  |
|                          | CONTENTS_DER                                  | The entire DER-encoded certificate, expressed in hex.  |  |
|                          | CONTENTS_PEM                                  | The PEM-formatted certificate encoded as a single line of base64 characters.   |  |
|                          | CONTENTS_PEM_<br>NO_LABELS                    | Same as CONTENTS_PEM , but not including the certificate's header and footer.  |  |
|                          | COUNT   | The number of client certificates received.  |  |

| Option                | Type         | Description   | Requires                                 |
|-----------------------|--------------|---|--|
|                       | STATUS_MSG   | A short message indicating the status of a certificate's validation, such as ok or missing .  |  |
|                       | KEY_LENGTH   | The size of the key in bits.  |  |
| header Name           | string       | Specifies the case-insensitive name of the HTTP header to extract.  | extractLocation is CLIENT_REQUEST_HEADER |
| response HeaderName   | string       | Specifies the case-insensitive name of the HTTP header to extract.  | extractLocation is RESPONSE_HEADER       |
| setCookie Name        | string       | Specifies the name of the origin's Set-Cookie response header.  | extractLocation is SET_COOKIE            |
| cookieName            | string       | Specifies the name of the cookie to extract.  | extractLocation is COOKIE                |
| locationId            | enum         | Specifies the X-Akamai-Edgescape header's field name. Possible values specify basic geolocation, various geographic standards, and information about the client's network. For details on EdgeScape header fields, see the <a href="#">EdgeScape User Guide</a> . | extractLocation is EDGESCAPE             |
|                       | GEOREGION    | Region.   |  |
|                       | COUNTRY_CODE | ISO-3166 country code.  |  |
|                       | REGION_CODE  | ISO-3166 region code.   |  |
|                       | CITY         | City.   |  |
|                       | DMA          | Designated Market Area.   |  |
|                       | PMSA         | Primary Metropolitan Statistical Area.  |  |
|                       | MSA          | Metropolitan Statistical Area.  |  |
|                       | AREACODE     | Area code.  |  |
|                       | COUNTY       | County.   |  |
|                       | FIPS         | Federal Information Processing System code.   |  |
|                       | LAT          | Latitude.   |  |
|                       | LONG         | Longitude.  |  |
|                       | TIMEZONE     | Time zone.  |  |
|                       | ZIP          | Zip code.   |  |
|                       | CONTINENT    | Two-letter continent code.  |  |
|                       | NETWORK      | Network name.   |  |
|                       | NETWORK_TYPE | Network type.   |  |
|                       | ASNUM        | Autonomous System Number.   |  |
|                       | THROUGHPUT   | Tiered throughput level.  |  |
|                       | BW           | Tiered bandwidth level.   |  |
| path Component Offset | string       | This specifies a portion of the path. The indexing starts from 1 , so a value of /path/to/nested/filename.html and an offset of 1 yields path , and 3 yields nested . Negative indexes offset from the right, so -2 also yields nested .                          | extractLocation is PATH_COMPONENT_OFFSET |
| query Parameter Name  | string       | Specifies the name of the query parameter from which to extract the value.  | extractLocation is QUERY_STRING          |
| generator             | enum         | This specifies the type of value to generate.   | valueSource is GENERATE                  |



| Option          | Type                                       | Description  | Requires             |
|-----------------|--|--|----------------------|
|                 | HEXRAND                                    | A random hex sequence.   |                      |
|                 | RAND                                       | A random number.   |                      |
| numberOfBytes   | number (1-16)                              | Specifies the number of random hex bytes to generate.  | generator is HEXRAND |
| minRandomNumber | string (allows <a href="#">variables</a> ) | Specifies the lower bound of the random number.  | generator is RAND    |
| maxRandomNumber | string (allows <a href="#">variables</a> ) | Specifies the upper bound of the random number.  | generator is RAND    |
| transform       | enum                                       | Specifies a function to transform the value. For more details on each transform function, see <a href="#">Set Variable: Operations</a> . |                      |
|                 | NONE                                       | No transformation.   |                      |
|                 | ADD  | Arithmetic function.   |                      |
|                 | BASE_64_DECODE                             | String encoding.   |                      |
|                 | BASE_64_ENCODE                             | String encoding.   |                      |
|                 | BITWISE_AND                                | Bitwise operation.   |                      |
|                 | BITWISE_NOT                                | Bitwise operation.   |                      |
|                 | BITWISE_OR                                 | Bitwise operation.   |                      |
|                 | BITWISE_XOR                                | Bitwise operation.   |                      |
|                 | DECIMAL_TO_HEX                             | Numeric conversion.  |                      |
|                 | DECRYPT                                    | String encoding.   |                      |
|                 | DIVIDE                                     | Arithmetic function.   |                      |
|                 | ENCRYPT                                    | String encoding.   |                      |
|                 | EPOCH_TO_STRING                            | Time format.   |                      |
|                 | EXTRACT_PARAM                              | String format.   |                      |
|                 | HASH                                       | Integer data digest.   |                      |
|                 | HEX_TO_DECIMAL                             | Numeric conversion.  |                      |
|                 | HEX_DECODE                                 | String conversion.   |                      |
|                 | HEX_ENCODE                                 | String conversion.   |                      |
|                 | HMAC                                       | Data digest.   |                      |
|                 | LOWER                                      | String function.   |                      |
|                 | MD5  | Data digest.   |                      |
|                 | MINUS                                      | Arithmetic function, reverse sign.   |                      |
|                 | MODULO                                     | Arithmetic function, get remainder.  |                      |
|                 | MULTIPLY                                   | Arithmetic function.   |                      |
|                 | NORMALIZE_PATH_WIN                         | Convert Windows paths to Unix format and remove relative path syntax.  |                      |
|                 | REMOVE_WHITESPACE                          | String conversion.   |                      |
|                 | SHA_1                                      | Data digest.   |                      |
|                 | SHA_256                                    | Data digest.   |                      |

| Option                | Type  | Description  | <a href="#">Requires</a>   |
|-----------------------|---|--|--|
|                       | STRING_INDEX                                  | String function: locate substring.   |  |
|                       | STRING_LENGTH                                 | String function.   |  |
|                       | STRING_TO_EPOCH                               | Time format.   |  |
|                       | SUBSTITUTE                                    | String function.   |  |
|                       | SUBSTRING                                     | String function: locate index.   |  |
|                       | SUBTRACT                                      | Arithmetic function.   |  |
|                       | TRIM  | Trim surrounding whitespace in string.   |  |
|                       | UPPER   | String function.   |  |
|                       | URL_DECODE                                    | String conversion.   |  |
|                       | URL_ENCODE                                    | Unicode string conversion.   |  |
|                       | URL_DECODE_UNI                                | String conversion.   |  |
|                       | UTC_SECONDS                                   | Time format.   |  |
|                       | XML_DECODE                                    | String conversion.   |  |
|                       | XML_ENCODE                                    | String conversion.   |  |
| operandOne            | string<br>(allows <a href="#">variables</a> ) | Specifies an additional operand when the <code>transform</code> function is set to various arithmetic functions ( <code>ADD</code> , <code>SUBTRACT</code> , <code>MULTIPLY</code> , <code>DIVIDE</code> , or <code>MODULO</code> ) or bitwise functions ( <code>BITWISE_AND</code> , <code>BITWISE_OR</code> , or <code>BITWISE_XOR</code> ). | <code>transform</code> is either:<br><code>ADD</code> , <code>BITWISE_AND</code> ,<br><code>BITWISE_OR</code> , <code>BITWISE_XOR</code> , <code>DIVIDE</code> ,<br><code>MODULO</code> , <code>MULTIPLY</code> ,<br><code>SUBTRACT</code> |
| algorithm             | enum  | Specifies the algorithm to apply.  | <code>transform</code> is either:<br><code>ENCRYPT</code> , <code>DECRYPT</code>   |
|                       | ALG_3DES                                      | Triple DES.  |  |
|                       | ALG_AES128                                    | Advanced Encryption Standard, 128 bits.  |  |
|                       | ALG_AES256                                    | Advanced Encryption Standard, 256 bits.  |  |
| encryption Key        | string<br>(allows <a href="#">variables</a> ) | Specifies the encryption hex key. For <code>ALG_3DES</code> it needs to be 48 characters long, 32 characters for <code>ALG_AES128</code> , and 64 characters for <code>ALG_AES256</code> .   | <code>transform</code> is either:<br><code>ENCRYPT</code> , <code>DECRYPT</code>   |
| initialization Vector | string  | Specifies a one-time number as an initialization vector. It needs to be 15 characters long for <code>ALG_3DES</code> , and 32 characters for both <code>ALG_AES128</code> and <code>ALG_AES256</code> .  | <code>transform</code> is either:<br><code>ENCRYPT</code> , <code>DECRYPT</code>   |
| encryption Mode       | enum  | Specifies the encryption mode.   | <code>transform</code> is either:<br><code>ENCRYPT</code> , <code>DECRYPT</code>   |
|                       | CBC   | Cipher Block Chaining.   |  |
|                       | ECB   | Electronic Codebook.   |  |
| nonce                 | string<br>(allows <a href="#">variables</a> ) | Specifies the one-time number used for encryption.   | <code>transform</code> is either:<br><code>ENCRYPT</code> , <code>DECRYPT</code>   |
| prepend Bytes         | boolean                                       | Specifies a number of random bytes to prepend to the key.  | <code>transform</code> is either:<br><code>ENCRYPT</code> , <code>DECRYPT</code>   |
| formatString          | string  | Specifies an optional format string for the conversion, using format codes such as <code>%m/%d/%y</code> as specified by <a href="#">strftime</a> <a href="#">↗</a> . A blank value defaults to RFC-2616 format.   | <code>transform</code> is either:<br><code>EPOCH_TO_STRING</code> ,<br><code>STRING_TO_EPOCH</code>  |
| paramName             | string<br>(allows <a href="#">variables</a> ) | Extracts the value for the specified parameter name from a string that contains key/value pairs. (Use <code>separator</code> below to parse them.)   | <code>transform</code> is <code>EXTRACT_PARAM</code>   |
| separator             | string  | Specifies the character that separates pairs of values within the string.  | <code>transform</code> is <code>EXTRACT_PARAM</code>   |

| Option                 | Type  | Description  | Requires  |
|------------------------|---|--|---|
| min                    | number  | Specifies a minimum value for the generated integer.   | transform is HASH                                     |
| max                    | number  | Specifies a maximum value for the generated integer.   | transform is HASH                                     |
| hmacKey                | string<br>(allows <a href="#">variables</a> ) | Specifies the secret to use in generating the base64-encoded digest.   | transform is HMAC                                     |
| hmac<br>Algorithm      | enum  | Specifies the algorithm to use to generate the base64-encoded digest.  | transform is HMAC                                     |
|                        | SHA1  | SHA-1.   |   |
|                        | SHA256  | SHA-256.   |   |
|                        | MD5   | MD5.   |   |
| ipVersion              | enum  | Specifies the IP version under which a subnet mask generates.  | transform is NETMASK                                  |
|                        | IPV4  | Use IPv4.  |   |
|                        | IPV6  | Use IPv6.  |   |
| ipv6Prefix             | number (0-128)                                | Specifies the prefix of the IPV6 address, a value between 0 and 128.   | ipVersion is IPV6                                     |
| ipv4Prefix             | number (0-32)                                 | Specifies the prefix of the IPV4 address, a value between 0 and 32.  | ipVersion is IPV4                                     |
| subString              | string<br>(allows <a href="#">variables</a> ) | Specifies a substring for which the returned value represents a zero-based offset of where it appears in the original string, or -1 if there's no match.   | transform is STRING_INDEX                             |
| regex                  | string  | Specifies the regular expression pattern (PCRE) to match the value.  | transform is SUBSTITUTE                               |
| replacement            | string<br>(allows <a href="#">variables</a> ) | Specifies the replacement string. Reinsert grouped items from the match into the replacement using \$1 , \$2 ... \$n .   | transform is SUBSTITUTE                               |
| case<br>Sensitive      | boolean                                       | Enabling this makes all matches case sensitive.  | transform is either:<br>EXTRACT_PARAM ,<br>SUBSTITUTE |
| global<br>Substitution | boolean                                       | Replaces all matches in the string, not just the first.  | transform is SUBSTITUTE                               |
| startIndex             | string  | Specifies the zero-based character offset at the start of the substring. Negative indexes specify the offset from the end of the string.   | transform is SUBSTRING                                |
| endIndex               | string  | Specifies the zero-based character offset at the end of the substring, without including the character at that index position. Negative indexes specify the offset from the end of the string.                                 | transform is SUBSTRING                                |
| exceptChars            | string  | Specifies characters <i>not</i> to encode, possibly overriding the default set.  | transform is URL_ENCODE                               |
| forceChars             | string  | Specifies characters to encode, possibly overriding the default set.   | transform is URL_ENCODE                               |
| device<br>Profile      | enum  | Specifies the client device attribute. Possible values specify information about the client device, including device type, size and browser. For details on fields, see <a href="#">Device Characterization</a> <sup>↗</sup> . | extractLocation is DEVICE_PROFILE                     |
|                        | IS_MOBILE                                     | Basic device attributes, boolean.  |   |
|                        | IS_TABLET                                     | Basic device attributes, boolean.  |   |
|                        | IS_WIRELESS_DEVICE                            | Basic device attributes, boolean.  |   |
|                        | PHYSICAL_SCREEN_HEIGHT                        | Device screen size in millimeters.   |   |
|                        | PHYSICAL_SCREEN_WIDTH                         | Device screen size in millimeters.   |   |

| Option | Type                   | Description   | <a href="#">Requires</a> |
|--------|------------------------|---|--------------------------|
|        | RESOLUTION_HEIGHT      | Device screen size in pixels.                                 |                          |
|        | RESOLUTION_WIDTH       | Device screen size in pixels.                                 |                          |
|        | VIEWPORT_WIDTH         | Device viewport size in millimeters.                          |                          |
|        | BRAND_NAME             | Basic device attributes, string values.                       |                          |
|        | DEVICE_OS              | Basic device attributes, string values.                       |                          |
|        | DEVICE_OS_VERSION      | Basic device attributes, string values.                       |                          |
|        | DUAL_ORIENTATION       | Whether the display adapts to portrait/landscape orientation. |                          |
|        | MAX_IMAGE_HEIGHT       | Maximum image size that can be displayed, in pixels.          |                          |
|        | MAX_IMAGE_WIDTH        | Maximum image size that can be displayed, in pixels.          |                          |
|        | MOBILE_BROWSER         | Basic device attributes, string values.                       |                          |
|        | MOBILE_BROWSER_VERSION | Basic device attributes, string values.                       |                          |
|        | PDF_SUPPORT            | Device support capabilities, boolean.                         |                          |
|        | COOKIE_SUPPORT         | Device support capabilities, boolean.                         |                          |

## standardTLSMigrationOverride

- **Property Manager name:** [Standard TLS Migration Override](#)
- **Behavior version:** The v2019-07-25 rule format supports the standardTLSMigrationOverride behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

When applying [standardTLSMigration](#), add this behavior if your new certificate is SNI-only, if your property includes any [advanced features](#), any Edge IP Binding enabled hosts, or if any foreground downloads are configured.

This behavior object does not support any options. Specifying the behavior enables it.

## simulateErrorCode

- **Property Manager name:** [Simulate Error Response Code](#)
- **Behavior version:** The v2019-07-25 rule format supports the simulateErrorCode behavior v1.1.

- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior simulates various error response codes. Contact Akamai Professional Services for help configuring it.

| Option    | Type              | Description  | Requires  |
|-----------|-------------------|--|---|
| errorType | enum              | Specifies the type of error.   |   |
|           |                   | <b>Supported values:</b><br><br><div> ERR_CONNECT_FAIL<br/> ERR_CONNECT_TIMEOUT<br/> ERR_DNS_FAIL </div> <div> ERR_DNS_IN_REGION<br/> ERR_DNS_TIMEOUT<br/> ERR_NO_GOOD_FWD_IP </div>     |   |
| timeout   | string (duration) | When the errorType is ERR_CONNECT_TIMEOUT, ERR_DNS_TIMEOUT, ERR_SUREROUTE_DNS_FAIL, or ERR_READ_TIMEOUT, generates an error after the specified amount of time from the initial request. | errorType is either: ERR_DNS_TIMEOUT, ERR_SUREROUTE_DNS_FAIL, ERR_READ_TIMEOUT, ERR_CONNECT_TIMEOUT |

## siteShield

- **Property Manager name:** [SiteShield](#)
- **Behavior version:** The v2019-07-25 rule format supports the siteShield behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior implements the [Site Shield](#) feature, which helps prevent non-Akamai machines from contacting your origin. Your service representative periodically sends you a list of Akamai servers allowed to contact your origin, with which you establish an Access Control List on your firewall to prevent any other requests.

| Option | Type   | Description  |
|--------|--------|--|
| ssmap  | object | Identifies the hostname for the Site Shield map, available from your Akamai representative. Form an object with a value key that references the hostname, for example: "ssmap":{"value":"ss.akamai.net"} . |

## standardTLSMigration

- **Property Manager name:** [Standard TLS Migration](#)
- **Behavior version:** The v2019-07-25 rule format supports the standardTLSMigration behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Migrates traffic to Standard TLS. Apply this behavior within the default rule or any [hostname](#) match. In some cases you may need to apply this along with the [standardTLSMigrationOverride](#) behavior.

| Option                                     | Type                         | Description  | Requires  |
|--|------------------------------|--|---|
| <code>enabled</code>                       | boolean                      | Allows migration to Standard TLS.  |   |
| <code>migrationFrom</code>                 | enum                         | What kind of traffic you're migrating from.  |   |
|  | <code>SHARED_CERT</code>     | A shared certificate.  |   |
|  | <code>NON_SECURE</code>      | Non-secure traffic.  |   |
|  | <code>ENHANCED_SECURE</code> | Enhanced Secure TLS.   |   |
| <code>allow<br/>HTTPSUpgrade</code>        | boolean                      | Allows temporary upgrade of HTTP traffic to HTTPS.   | <code>migrationFrom</code> is <code>NON_SECURE</code>   |
| <code>allow<br/>HTTPSDowngrade</code>      | boolean                      | Allow temporary downgrade of HTTPS traffic to HTTP. This removes various <code>Origin</code> , <code>Referer</code> , <code>Cookie</code> , <code>Cookie2</code> , <code>sec-*</code> and <code>proxy-*</code> headers from the request to origin. | <code>migrationFrom</code> is <code>NON_SECURE</code>   |
| <code>migrationStart<br/>Time</code>       | string<br>(epoch timestamp)  | Specifies when to start migrating the cache.   | <code>allow<br/>HTTPSUpgrade</code> is <code>true</code><br>OR <code>allow<br/>HTTPSDowngrade</code> is <code>true</code> |
| <code>migration<br/>Duration</code>        | number                       | Specifies the number of days to migrate the cache.   | <code>allow<br/>HTTPSUpgrade</code> is <code>true</code><br>OR <code>allow<br/>HTTPSDowngrade</code> is <code>true</code> |
| <code>cacheSharing<br/>StartTime</code>    | string<br>(epoch timestamp)  | Specifies when to start cache sharing.   | <code>migrationFrom</code> is <code>ENHANCED_SECURE</code>  |
| <code>cacheSharing<br/>Duration</code>     | number                       | Specifies the number cache sharing days.   | <code>migrationFrom</code> is <code>ENHANCED_SECURE</code>  |
| <code>isCertificate<br/>SNIOnly</code>     | boolean                      | Sets whether your new certificate is SNI-only.   | <code>migrationFrom</code> is <code>ENHANCED_SECURE</code>  |
| <code>isTiered<br/>DistributionUsed</code> | boolean                      | Allows you to align traffic to various <a href="#">tieredDistribution</a> areas.   | <code>migrationFrom</code> is <code>NON_SECURE</code>   |
| <code>tdLocation</code>                    | enum                         | Specifies the <a href="#">tieredDistribution</a> location.   | <code>isTiered<br/>DistributionUsed</code> is <code>true</code>   |
|  | <code>GLOBAL</code>          | Global.  |   |
|  | <code>APAC</code>            | Asia and Pacific.  |   |
|  | <code>EUROPE</code>          | Europe.  |   |
|  | <code>US_EAST</code>         | Eastern United States.   |   |
|  | <code>US_CENTRAL</code>      | Central United States.   |   |
|  | <code>US_WEST</code>         | Western United States.   |   |
|  | <code>AUSTRALIA</code>       | Australia.   |   |
|  | <code>GLOBAL_LEGACY</code>   | Global.  |   |

# tcpOptimization

- **Property Manager name:** [TCP Optimizations](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the tcpOptimization behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables a suite of optimizations targeting buffers, time-outs, and packet loss that improve transmission performance. This behavior is deprecated, but you should not disable or remove it if present.

This behavior object does not support any options. Specifying the behavior enables it.

# subCustomer

- **Property Manager name:** [Subcustomer Enablement](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the subCustomer behavior v1.5.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

When positioned in a property's top-level default rule, enables various [Cloud Embed](#) <sup>↗</sup> features that allow you to leverage Akamai's CDN architecture for your own subcustomers. This behavior's options allow you to use Cloud Embed to configure your subcustomers' content. Once enabled, you can use the [Akamai Cloud Embed API](#) <sup>↗</sup> (ACE) to assign subcustomers to this base configuration, and to customize policies for them. See also the [dynamicWebContent](#) behavior to configure subcustomers' dynamic web content.

| Option                  | Type    | Description  | <a href="#">Requires</a> |
|-------------------------|---------|--|--------------------------|
| enabled                 | boolean | Allows Cloud Embed to dynamically modify your subcustomers' content.   |                          |
| origin                  | boolean | Allows you to assign origin hostnames for customers.   |                          |
| partner<br>DomainSuffix | string  | This specifies the appropriate domain suffix, which you should typically match with your property hostname. It identifies the domain as trustworthy on the Akamai network, despite being defined within Cloud Embed, outside of your base property configuration. Include this domain suffix if you want to purge subcustomer URLs. For example, if you provide a value of suffix.example.com , then to purge subcustomer.com/some/path , specify subcustomer.com.suffix.example.com/some/path as the purge request's URL. | origin is<br>true        |
| caching                 | boolean | Modifies content caching rules.  |                          |
| referrer                | boolean | Sets subcustomers' referrer whitelists or blacklist.   |                          |
| ip                      | boolean | Sets subcustomers' IP whitelists or blacklists.  |                          |
| geoLocation             | boolean | Sets subcustomers' location-based whitelists or blacklists.  |                          |
| refresh<br>Content      | boolean | Allows you to reschedule when content validates for subcustomers.  |                          |
| modifyPath              | boolean | Modifies a subcustomer's request path.   |                          |

| Option                        | Type    | Description   | Requires |
|-------------------------------|---------|---|----------|
| cacheKey                      | boolean | Allows you to set which query parameters are included in the cache key.   |          |
| token<br>Authorization        | boolean | When enabled, this allows you to configure edge servers to use tokens to control access to subcustomer content. Use Cloud Embed to configure the token to appear in a cookie, header, or query parameter. |          |
| siteFailover                  | boolean | Allows you to configure unique failover sites for each subcustomer's policy.  |          |
| content<br>Compressor         | boolean | Allows compression of subcustomer content.  |          |
| access<br>Control             | boolean | When enabled, this allows you to deny requests to a subcustomer's content based on specific match conditions, which you use Cloud Embed to configure in each subcustomer's policy.                        |          |
| dynamicWeb<br>Content         | boolean | Allows you to apply the <a href="#">dynamicWebContent</a> behavior to further modify how dynamic content behaves for subcustomers.  |          |
| onDemand<br>Video<br>Delivery | boolean | Enables delivery of media assets to subcustomers.   |          |
| largeFile<br>Delivery         | boolean | Enables large file delivery for subcustomers.   |          |

## sureRoute

- **Property Manager name:** [SureRoute](#)<sup>®</sup>
- **Behavior version:** The `v2019-07-25` rule format supports the `sureRoute` behavior v1.5.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [SureRoute](#)<sup>®</sup> feature continually tests different routes between origin and edge servers to identify the optimal path. By default, it conducts *rac*es to identify alternative paths to use in case of a transmission failure. These races increase origin traffic slightly.

This behavior allows you to configure SureRoute along with a test object to improve delivery of non-cacheable `no-store` or `bypass-cache` content. Since edge servers are already positioned as close as possible to requesting clients, the behavior does not apply to cacheable content.

| Option        | Type        | Description   | Requires                                     |
|---------------|-------------|---|--|
| enabled       | boolean     | Enables the SureRoute behavior, to optimize delivery of non-cached content.   |  |
| type          | enum        | Specifies the set of edge servers used to test routes.  |  |
|               | PERFORMANCE | Use the default set of edge servers.  |  |
|               | CUSTOM_MAP  | A custom map that you need to get from Akamai Professional Services.  |  |
| custom<br>Map | string      | If <code>type</code> is <code>CUSTOM_MAP</code> , this specifies the map string provided to you by Akamai Professional Services, or included as part of the <a href="#">Site Shield</a> <sup>®</sup> product. | <code>type</code> is <code>CUSTOM_MAP</code> |



| Option                  | Type                 | Description   | Requires                           |
|-------------------------|----------------------|---|------------------------------------|
| test<br>Object<br>Url   | string               | Specifies the path and filename for your origin's test object to use in races to test routes.<br><br>Akamai provides sample test objects for the <a href="#">Dynamic Site Accelerator</a> and Web Application Accelerator products. If you want to use your own test object, it needs to be on the same origin server as the traffic being served through SureRoute. Make sure it returns a 200 HTTP response and does not require authentication. The file should be an average-sized static HTML file ( Content-Type: text/html ) that is no smaller than 8KB, with no back-end processing.<br><br>If you have more than one origin server deployed behind a load balancer, you can configure it to serve the test object directly on behalf of the origin, or route requests to the same origin server to avoid deploying the test object on each origin server. |                                    |
| toHost<br>Status        | enum                 | Specifies which hostname to use.  |                                    |
|                         | INCOMING_HH          | Use the incoming Host header when requesting the SureRoute test object.   |                                    |
|                         | OTHER                | Use toHost to specify a custom Host header.   |                                    |
| toHost                  | string               | If toHostStatus is OTHER , this specifies the custom Host header to use when requesting the SureRoute test object.  | toHost<br>Status is<br>OTHER       |
| raceStat<br>Ttl         | string<br>(duration) | Specifies the time-to-live to preserve SureRoute race results, typically 30m . If traffic exceeds a certain threshold after TTL expires, the overflow is routed directly to the origin, not necessarily optimally. If traffic remains under the threshold, the route is determined by the winner of the most recent race.   |                                    |
| forceSsl<br>Forward     | boolean              | Forces SureRoute to use SSL when requesting the origin's test object, appropriate if your origin does not respond to HTTP requests, or responds with a redirect to HTTPS.   |                                    |
| enable<br>Custom<br>Key | boolean              | When disabled, caches race results under the race destination's hostname. If enabled, use customStatKey to specify a custom hostname.   |                                    |
| custom<br>StatKey       | string               | This specifies a hostname under which to cache race results. This may be useful when a property corresponds to many origin hostnames. By default, SureRoute would launch races for each origin, but consolidating under a single hostname runs only one race.   | enable<br>Custom<br>Key is<br>true |

## teaLeaf

- **Property Manager name:** [IBM Tealeaf Connector](#)
- **Behavior version:** The v2019-07-25 rule format supports the teaLeaf behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allows IBM Tealeaf Customer Experience on Cloud to record HTTPS requests and responses for Akamai-enabled properties. Recorded data becomes available in your IBM Tealeaf account.

| Option         | Type    | Description  |
|----------------|---------|--|
| enabled        | boolean | When enabled, capture HTTPS requests and responses, and send the data to your IBM Tealeaf account. |
| limitToDynamic | boolean | Limit traffic to dynamic, uncached ( No-Store ) content.   |
| ibmCustomerId  | number  | The integer identifier for the IBM Tealeaf Connector account.                                      |

## tieredDistribution

- **Property Manager name:** [Tiered Distribution](#) <sup>¶</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `tieredDistribution` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior allows Akamai edge servers to retrieve cached content from other Akamai servers, rather than directly from the origin. These interim *parent* servers in the *cache hierarchy* ( `CH` ) are positioned close to the origin, and fall along the path from the origin to the edge server. Tiered Distribution typically reduces the origin server's load, and reduces the time it takes for edge servers to refresh content.

See also the [tieredDistributionAdvanced](#) behavior.

| Option                               | Type                | Description   | Requires   |
|--------------------------------------|---------------------|---|--|
| <code>enabled</code>                 | boolean             | When enabled, activates tiered distribution.  |  |
| <code>tiered Distribution Map</code> | enum                | Optionally map the tiered parent server's location close to your origin. A narrower local map minimizes the origin server's load, and increases the likelihood the requested object is cached. A wider global map reduces end-user latency, but decreases the likelihood the requested object is in any given parent server's cache. This option cannot apply if the property is marked as secure. See <a href="#">Secure property requirements</a> for guidance. | <code>is_secure</code> is <code>false</code> in top-level rule |
|                                      | <code>CH2</code>    | A global map.   |  |
|                                      | <code>CHAPAC</code> | China and the Asian Pacific area.   |  |
|                                      | <code>CHEU2</code>  | Europe.   |  |
|                                      | <code>CHEUS2</code> | Eastern United States.  |  |
|                                      | <code>CHCUS2</code> | Central United States.  |  |
|                                      | <code>CHWUS2</code> | Western United States.  |  |
|                                      | <code>CH AUS</code> | Australia.  |  |
|                                      | <code>CH</code>     | A global map.   |  |

## tieredDistributionAdvanced

- **Property Manager name:** [Tiered Distribution \(Advanced\)](#) <sup>¶</sup>
- **Behavior version:** The v2019-07-25 rule format supports the `tieredDistributionAdvanced` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This behavior allows Akamai edge servers to retrieve cached content from other Akamai servers, rather than directly from the origin. These interim *parent* servers in the *cache hierarchy* ( *CH* ) are positioned close to the origin, and fall along the path from the origin to the edge server. Tiered Distribution typically reduces the origin server's load, and reduces the time it takes for edge servers to refresh content. This advanced behavior provides a wider set of options than [tieredDistribution](#) .

| Option                  | Type    | Description  |
|-------------------------|---------|--|
| enabled                 | boolean | When enabled, activates tiered distribution.   |
| tiered Distribution Map | string  | Optionally map the tiered parent server's location close to your origin: CHEU2 for Europe; CHAUS for Australia; CHAPAC for China and the Asian Pacific area; CHWUS2 , CHCUS2 , and CHEUS2 for different parts of the United States. Choose CH or CH2 for a more global map. A narrower local map minimizes the origin server's load, and increases the likelihood the requested object is cached. A wider global map reduces end-user latency, but decreases the likelihood the requested object is in any given parent server's cache. This option cannot apply if the property is marked as secure. See <a href="#">Secure property requirements</a> for guidance. |

## timeout

- **Property Manager name:** [Connect Timeout](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the timeout behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Sets the HTTP connect timeout.

| Option | Type              | Description                              |
|--------|-------------------|--|
| value  | string (duration) | Specifies the timeout, for example 10s . |

## uidConfiguration

- **Property Manager name:** [UID Configuration](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the uidConfiguration behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior allows you to extract unique identifier (UID) values from live traffic, for use in OTA applications. Note that you are responsible for maintaining the security of any data that may identify individual users.

| Option  | Type    | Description                                      | <a href="#">Requires</a> |
|---------|---------|--|--------------------------|
| enabled | boolean | Allows you to extract UIDs from client requests. |                          |

| Option               | Type                                     | Description   | Requires                                 |
|----------------------|--|---|--|
| extract Location     | enum                                     | Where to extract the UID value from.  |  |
|                      | CLIENT_REQUEST_HEADER                    | From a client request header.   |  |
|                      | QUERY_STRING                             | From the request query string.  |  |
|                      | VARIABLE                                 | From a rule tree VARIABLE . You should mark these variables as <a href="#">sensitive</a> . See also <a href="#">Support for variables</a> . |  |
| headerName           | string                                   | This specifies the name of the HTTP header from which to extract the UID value.   | extractLocation is CLIENT_REQUEST_HEADER |
| query Parameter Name | string                                   | This specifies the name of the query parameter from which to extract the UID value.   | extractLocation is QUERY_STRING          |
| variable Name        | string ( <a href="#">variable name</a> ) | This specifies the name of the rule tree variable from which to extract the UID value.  | extractLocation is VARIABLE              |

## validateEntityTag

- **Property Manager name:** [Validate Entity Tag \(ETag\)](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the validateEntityTag behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Instructs edge servers to compare the request's ETag header with that of the cached object. If they differ, the edge server sends a new copy of the object. This validation occurs in addition to the default validation of Last-Modified and If-Modified-Since headers.

| Option  | Type    | Description                           |
|---------|---------|---------------------------------------|
| enabled | boolean | Enables the ETag validation behavior. |

## verifyJsonWebToken

- **Property Manager name:** [JWT verification](#) <sup>↗</sup>
- **Behavior version:** The v2019-07-25 rule format supports the verifyJsonWebToken behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior allows you to use JSON Web Tokens (JWT) to verify requests.

| Option                     | Type                          | Description  | Requires                                     |
|----------------------------|-------------------------------|--|--|
| extract<br>Location        | enum                          | Specify from where to extract the JWT value.   |  |
|                            | CLIENT_<br>REQUEST_<br>HEADER | The value is in a client request header.   |  |
|                            | QUERY_<br>STRING              | The value is in the request's query string.  |  |
| header<br>Name             | string                        | This specifies the name of the header from which to extract the JWT value.   | extractLocation is CLIENT_<br>REQUEST_HEADER |
| query<br>Parameter<br>Name | string                        | This specifies the name of the query parameter from which to extract the JWT value.                                  | extractLocation is QUERY_<br>STRING          |
| jwt                        | string                        | An identifier for the JWT keys collection.   |  |
| enable<br>RS256            | boolean                       | Verifies JWTs signed with the RS256 algorithm. This signature helps ensure that the token hasn't been tampered with. |  |
| enable<br>ES256            | boolean                       | Verifies JWTs signed with the ES256 algorithm. This signature helps ensure that the token hasn't been tampered with. |  |

## verifyJsonWebTokenForDcp

- **Property Manager name:** [JWT](#)
- **Behavior version:** The v2019-07-25 rule format supports the `verifyJsonWebTokenForDcp` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior allows you to use JSON web tokens (JWT) to verify requests for use in implementing [IoT Edge Connect](#), which you use the `dcp` behavior to configure. You can specify the location in a request to pass a JSON web token (JWT), collections of public keys to verify the integrity of this token, and specific claims to extract from it. Use the [verifyJsonWebToken](#) behavior for other JWT validation.

When authenticating to edge servers with both JWT and mutual authentication (using the [dcpAuthVariableExtractor](#) behavior), the JWT method is ignored, and you need to authenticate with a client authentication certificate.

| Option              | Type   | Description                                | Requires |
|---------------------|--|--|----------|
| extract<br>Location | enum   | Specifies where to get the JWT value from. |          |
|                     | CLIENT_<br>REQUEST_<br>HEADER                      | From the client request header.            |          |
|                     | QUERY_STRING                                       | From the query string.                     |          |
|                     | CLIENT_<br>REQUEST_<br>HEADER_AND_<br>QUERY_STRING | From both.                                 |          |

| Option                 | Type                  | Description   | Requires   |
|------------------------|-----------------------|---|--|
| primary Location       | enum                  | Specifies the primary location to extract the JWT value from. If the specified option doesn't include the JWTs, the system checks the secondary one.        | extractLocation is CLIENT_REQUEST_HEADER_AND_QUERY_STRING                                |
|                        | CLIENT_REQUEST_HEADER | Get the JWT value from the request header.  |  |
|                        | QUERY_STRING          | Get the JWT value from the query string.  |  |
| custom Header          | boolean               | The JWT value comes from the X-Akamai-DCP-Token header by default. Enabling this option allows you to extract it from another header name that you specify. | extractLocation is either: CLIENT_REQUEST_HEADER, CLIENT_REQUEST_HEADER_AND_QUERY_STRING |
| headerName             | string                | This specifies the name of the header to extract the JWT value from.  | customHeader is true   |
| query Parameter Name   | string                | Specifies the name of the query parameter from which to extract the JWT value.  | extractLocation is either: QUERY_STRING, CLIENT_REQUEST_HEADER_AND_QUERY_STRING          |
| jwt                    | string                | An identifier for the JWT keys collection.  |  |
| extractClient Id       | boolean               | Allows you to extract the client ID claim name stored in JWT.   |  |
| clientId               | string                | This specifies the claim name.  | extractClientId is true  |
| extract Authorizations | boolean               | Allows you to extract the authorization groups stored in the JWT.   |  |
| authorizations         | string                | This specifies the authorization group name.  | extractAuthorizations is true  |
| extractUser Name       | boolean               | Allows you to extract the user name stored in the JWT.  |  |
| userName               | string                | This specifies the user name.   | extractUserName is true  |
| enableRS256            | boolean               | Verifies JWTs signed with the RS256 algorithm. This signature helps to ensure that the token hasn't been tampered with.                                     |  |
| enableES256            | boolean               | Verifies JWTs signed with the ES256 algorithm. This signature helps to ensure that the token hasn't been tampered with.                                     |  |

## verifyTokenAuthorization

- **Property Manager name:** [Auth Token 2.0 Verification](#)
- **Behavior version:** The v2019-07-25 rule format supports the verifyTokenAuthorization behavior v1.4.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Verifies Auth 2.0 tokens.

| Option       | Type    | Description   | Requires |
|--------------|---------|---|----------|
| use Advanced | boolean | If enabled, allows you to specify advanced options such as algorithm, escapeHmacInputs, ignoreQueryString, transitionKey, and salt. |          |
| location     | enum    | Specifies where to find the token in the incoming request.  |          |

| Option            | Type         | Description   | Requires            |
|-------------------|--------------|---|---------------------|
|                   |              | <b>Supported values:</b><br><div>CLIENT_REQUEST_HEADER</div>  |                     |
| locationId        | string       | When location is CLIENT_REQUEST_HEADER , specifies the name of the incoming request's header where to find the token.               |                     |
| algorithm         | enum         | Specifies the algorithm that generates the token. It needs to match the method chosen in the token generation code.                 | useAdvanced is true |
|                   |              | <b>Supported values:</b><br><div>MD5SHA1SHA256</div>  |                     |
| escapeHmacInputs  | boolean      | URL-escapes HMAC inputs passed in as query parameters.  | useAdvanced is true |
| ignoreQueryString | boolean      | Enabling this removes the query string from the URL used to form an encryption key.   | useAdvanced is true |
| key               | object array | The shared secret used to validate tokens, which needs to match the key used in the token generation code.                          |                     |
| transitionKey     | object array | Specifies a transition key as a hex value.  | useAdvanced is true |
| salt              | object array | Specifies a salt string for input when generating the token, which needs to match the salt value used in the token generation code. | useAdvanced is true |
| failureResponse   | boolean      | When enabled, sends an HTTP error when an authentication test fails.  |                     |

## visitorPrioritization

- **Property Manager name:** [Visitor Prioritization Cloudlet](#)
- **Behavior version:** The v2019-07-25 rule format supports the visitorPrioritization behavior v3.5.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The [Visitor Prioritization Cloudlet](#) decreases abandonment by providing a user-friendly waiting room experience. With Cloudlets available on your contract, choose **Your services** <> **Edge logic Cloudlets** to control Visitor Prioritization within [Control Center](#). Otherwise use the [Cloudlets API](#) to configure it programmatically. To serve non-HTML API content such as JSON blocks, see the [apiPrioritization](#) behavior.

| Option                     | Type    | Description  | Requires |
|----------------------------|---------|--|----------|
| enabled                    | boolean | Enables the Visitor Prioritization behavior.             |          |
| cloudletPolicy             | object  | Identifies the Cloudlet policy.                          |          |
| cloudletPolicy.id          | number  | Identifies the Cloudlet.                                 |          |
| cloudletPolicy.name        | string  | The Cloudlet's descriptive name.                         |          |
| userIdentificationByCookie | boolean | When enabled, identifies users by the value of a cookie. |          |

| Option                                 | Type           | Description  | <a href="#">Requires</a>  |
|--|----------------|--|---|
| user<br>IdentificationKey<br>Cookie    | string         | Specifies the name of the cookie whose value identifies users. To match a user, the value of the cookie needs to remain constant across all requests.  | user<br>IdentificationBy<br>Cookie is true  |
| user<br>IdentificationBy<br>Headers    | boolean        | When enabled, identifies users by the values of GET or POST request headers.   |   |
| user<br>IdentificationKey<br>Headers   | string array   | Specifies names of request headers whose values identify users. To match a user, values for all the specified headers need to remain constant across all requests.   | user<br>IdentificationBy<br>Headers is<br>true  |
| user<br>IdentificationBy<br>Ip         | boolean        | Allows IP addresses to identify users.   |   |
| user<br>IdentificationBy<br>Params     | boolean        | When enabled, identifies users by the values of GET or POST request parameters.  |   |
| user<br>IdentificationKey<br>Params    | string array   | Specifies names of request parameters whose values identify users. To match a user, values for all the specified parameters need to remain constant across all requests. Parameters that are absent or blank may also identify users.              | user<br>IdentificationBy<br>Params is true  |
| allowedUser<br>CookieEnabled           | boolean        | Sets a cookie for users who have been allowed through to the site.   |   |
| allowedUser<br>CookieLabel             | string         | Specifies a label to distinguish this cookie for an allowed user from others. The value appends to the cookie's name, and helps you to maintain the same user assignment across behaviors within a property, and across properties.                | allowedUser<br>CookieEnabled<br>is true   |
| allowedUser<br>CookieDuration          | number (0-600) | Sets the number of seconds for the allowed user's session once allowed through to the site.  | allowedUser<br>CookieEnabled<br>is true   |
| allowedUser<br>CookieRefresh           | boolean        | Resets the duration of an allowed cookie with each request, so that it only expires if the user doesn't make any requests for the specified duration. Do not enable this option if you want to set a fixed time for all users.                     | allowedUser<br>CookieEnabled<br>is true   |
| allowedUser<br>CookieAdvanced          | boolean        | Sets advanced configuration options for the allowed user's cookie.   | allowedUser<br>CookieEnabled<br>is true   |
| allowedUser<br>CookieAutomatic<br>Salt | boolean        | Sets an automatic <i>salt</i> value to verify the integrity of the cookie for an allowed user. Disable this if you want to share the cookie across properties.   | allowedUser<br>CookieEnabled<br>is true<br>AND allowed<br>UserCookie<br>Advanced is<br>true   |
| allowedUser<br>CookieSalt              | string         | Specifies a fixed <i>salt</i> value, which is incorporated into the cookie's value to prevent users from manipulating it. You can use the same salt string across different behaviors or properties to apply a single cookie to all allowed users. | allowedUser<br>CookieEnabled<br>is true<br>AND allowed<br>UserCookie<br>Advanced is<br>true<br>AND allowed<br>UserCookie<br>AutomaticSalt<br>is false |



| Option                              | Type           | Description  | Requires   |
|-------------------------------------|----------------|--|--|
| allowedUser<br>CookieDomain<br>Type | enum           | Specify with <code>allowedUserCookieAdvanced</code> enabled.   | allowedUser<br>CookieEnabled<br>is true<br>AND allowed<br>UserCookie<br>Advanced is<br>true  |
|                                     | DYNAMIC        | Use the dynamic incoming host header.  |  |
|                                     | CUSTOMER       | Use a customer-defined cookie domain.  |  |
| allowedUser<br>CookieDomain         | string         | Specifies a domain for an allowed user cookie.   | allowedUser<br>CookieEnabled<br>is true<br>AND allowed<br>UserCookie<br>Advanced is<br>true<br>AND allowed<br>UserCookie<br>DomainType is<br>CUSTOMER      |
| allowedUser<br>CookieHttpOnly       | boolean        | Applies the <code>HttpOnly</code> flag to the allowed user's cookie to ensure it's accessed over HTTP and not manipulated by the client.   | allowedUser<br>CookieEnabled<br>is true<br>AND allowed<br>UserCookie<br>Advanced is<br>true  |
| allowedUser<br>CookieSecure         | boolean        | Applies the <code>Secure</code> flag to the allowed user's cookie to transmit it over a secure connection. You can apply this option only if the property itself is secure. See <a href="#">Secure property requirements</a> for guidance. | allowedUser<br>CookieEnabled<br>is true<br>AND allowed<br>UserCookie<br>Advanced is<br>true<br>AND <code>is_secure</code><br>is true in top-<br>level rule |
| waitingRoom<br>CookieEnabled        | boolean        | Enables a cookie to track a waiting room assignment.   |  |
| waitingRoom<br>CookieShare<br>Label | boolean        | Enabling this option shares the same <code>allowedUserCookieLabel</code> string. If disabled, specify a different <code>waitingRoomCookieLabel</code> .  | waitingRoom<br>CookieEnabled<br>is true<br>AND allowed<br>UserCookie<br>Enabled is<br>true   |
| waitingRoom<br>CookieLabel          | string         | Specifies a label to distinguish this waiting room cookie from others. The value appends to the cookie's name, and helps you to maintain the same waiting room assignment across behaviors within a property, and across properties.       | waitingRoom<br>CookieEnabled<br>is true  |
| waitingRoom<br>CookieDuration       | number (0-120) | Sets the number of seconds for which users remain in the waiting room. During this time, users who refresh the waiting room page remain there.   | waitingRoom<br>CookieEnabled<br>is true  |
| waitingRoom<br>CookieAdvanced       | boolean        | When enabled along with <code>waitingRoomCookieEnabled</code> , sets advanced configuration options for the waiting room cookie.   | waitingRoom<br>CookieEnabled<br>is true  |

| Option                                 | Type     | Description  | Requires   |
|--|----------|--|--|
| waitingRoom<br>CookieAutomatic<br>Salt | boolean  | Sets an automatic <i>salt</i> value to verify the integrity of the waiting room cookie. Disable this if you want to share the cookie across properties.  | waitingRoom<br>CookieEnabled<br>is true<br>AND waiting<br>RoomCookie<br>Advanced is<br>true  |
| waitingRoom<br>CookieSalt              | string   | Specifies a fixed <i>salt</i> value, which is incorporated into the cookie's value to prevent users from manipulating it. You can use the same salt string across different behaviors or properties to apply a single cookie for the waiting room session. | waitingRoom<br>CookieEnabled<br>is true<br>AND waiting<br>RoomCookie<br>Advanced is<br>true<br>AND waiting<br>RoomCookie<br>AutomaticSalt<br>is false      |
| waitingRoom<br>CookieDomain<br>Type    | enum     | Specify with <code>waitingRoomCookieAdvanced</code> enabled, selects whether to use the <code>DYNAMIC</code> incoming host header, or a <code>CUSTOMER</code> -defined cookie domain.  | waitingRoom<br>CookieEnabled<br>is true<br>AND waiting<br>RoomCookie<br>Advanced is<br>true  |
|  | DYNAMIC  | Use the dynamic incoming host header.  |  |
|  | CUSTOMER | Use a customer-defined cookie domain.  |  |
| waitingRoom<br>CookieDomain            | string   | Specifies a domain for the waiting room cookie.  | waitingRoom<br>CookieEnabled<br>is true<br>AND waiting<br>RoomCookie<br>Advanced is<br>true<br>AND waiting<br>RoomCookie<br>DomainType is<br>CUSTOMER      |
| waitingRoom<br>CookieHttpOnly          | boolean  | Applies the <code>HttpOnly</code> flag to the waiting room cookie to ensure it's accessed over HTTP and not manipulated by the client.   | waitingRoom<br>CookieEnabled<br>is true<br>AND waiting<br>RoomCookie<br>Advanced is<br>true  |
| waitingRoom<br>CookieSecure            | boolean  | Applies the <code>Secure</code> flag to the waiting room cookie to transmit it over a secure connection. You can apply this option only if the property itself is secure. See <a href="#">Secure property requirements</a> for guidance.                   | waitingRoom<br>CookieEnabled<br>is true<br>AND waiting<br>RoomCookie<br>Advanced is<br>true<br>AND <code>is_secure</code><br>is true in top-<br>level rule |
| waitingRoom<br>StatusCode              | number   | Specifies the response code for requests sent to the waiting room.   |  |
| waitingRoomUse<br>CpCode               | boolean  | Allows you to assign a different CP code that tracks any requests that are sent to the waiting room.   |  |

| Option                                   | Type  | Description   | Requires                     |
|--|---|---|------------------------------|
| waitingRoomCpCode                        | object  | Specifies a <code>cpcode</code> object for requests sent to the waiting room, including a numeric <code>id</code> key and a descriptive <code>name</code> . | waitingRoomUseCpCode is true |
| waitingRoomCpCode.description            | string  | Additional description for the CP code.   |                              |
| waitingRoomCpCode.id                     | integer                                       | Unique identifier for each CP code.   |                              |
| waitingRoomCpCode.name                   | string  | The name of the CP code.  |                              |
| waitingRoomCpCode.products               | array   | The set of products the CP code is assigned to.   |                              |
| waitingRoomNetStorage                    | object  | Specifies the NetStorage domain for the waiting room page.  |                              |
| waitingRoomNetStorage.cpCodeList         | array   | A set of CP codes that apply to this storage group.   |                              |
| waitingRoomNetStorage.downloadDomainName | string  | Domain name from which content can be downloaded.   |                              |
| waitingRoomNetStorage.id                 | number  | Unique identifier for the storage group.  |                              |
| waitingRoomNetStorage.name               | string  | Name of the storage group.  |                              |
| waitingRoomNetStorage.uploadDomainName   | string  | Domain name used to upload content.   |                              |
| waitingRoomDirectory                     | string<br>(allows <a href="#">variables</a> ) | Specifies the NetStorage directory that contains the static waiting room page, with no trailing slash character.  |                              |
| waitingRoomCacheTtl                      | number (5-30)                                 | Specifies the waiting room page's time to live in the cache, 5 minutes by default.  |                              |

## watermarkUrl

- **Property Manager name:** [Watermark Token](#)
- **Behavior version:** The `v2019-07-25` rule format supports the `watermarkUrl` behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Aliases a token to a watermark image URL.

| Option   | Type   | Description                                |
|----------|--------|--|
| token    | string | Specifies the string token.                |
| imageUrl | string | Specifies the URL for the watermark image. |

# webApplicationFirewall

- **Property Manager name:** [Web Application Firewall \(WAF\)](#) <sup>¶</sup>
- **Behavior version:** The v2019-07-25 rule format supports the webApplicationFirewall behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior implements a suite of security features that blocks threatening HTTP and HTTPS requests. Use it as your primary firewall, or in addition to existing security measures. Only one referenced configuration is allowed per property, so this behavior typically belongs as part of its default rule.

| Option                | Type   | Description  |
|-----------------------|--------|--|
| firewallConfiguration | object | An object featuring details about your firewall configuration. |

# webSockets

- **Property Manager name:** [WebSockets](#) <sup>¶</sup>
- **Behavior version:** The v2019-07-25 rule format supports the webSockets behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The WebSocket protocol allows web applications real-time bidirectional communication between clients and servers.

| Option  | Type    | Description                |
|---------|---------|----------------------------|
| enabled | boolean | Enables WebSocket traffic. |

# webdav

- **Property Manager name:** [WebDAV](#) <sup>¶</sup>
- **Behavior version:** The v2019-07-25 rule format supports the webdav behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Web-based Distributed Authoring and Versioning (WebDAV) is a set of extensions to the HTTP protocol that allows users to collaboratively edit and manage files on remote web servers. This behavior enables WebDAV, and provides

support for the following additional request methods: PROPFIND, PROPPATCH, MKCOL, COPY, MOVE, LOCK, and UNLOCK. To apply this behavior, you need to match on a [requestMethod](#) .

| Option  | Type    | Description                  |
|---------|---------|------------------------------|
| enabled | boolean | Enables the WebDAV behavior. |

## v2019-07-25 criteria

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### v2019-07-25 criteria

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This section provides details for all criteria the Property Manager API supports for the `v2019-07-25` rule format version. The set available to you is determined by the product and modules assigned to the property. You can get it by running the [List available criteria](#) operation.

This `v2019-07-25` rule format provides an older deprecated set of PAPI features. You should use the most recent dated rule format available. See [API versioning](#) for details.

### Option requirements

PAPI's behaviors and match criteria often include cross-dependent options, for which this reference documentation provides details in a *Requires* table column. For example, suppose documentation for a `cloudletSharedPolicy` option specifies this as *Requires*:

```
isSharedPolicy is true
```

That means for the `cloudletSharedPolicy` to appear in the object, you need to also have `isSharedPolicy` set to `true` :

```
{
  "isSharedPolicy": true,
  "cloudletSharedPolicy": 1000
}
```

Often you include options in behavior or criteria objects based on the match of a string value. Documentation also indicates any set of high-level logical *AND* and *OR* validation requirements.

## advancedImMatch

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- **Property Manager name:** [Image and Video Manager](#)<sup>↗</sup>
- **Criteria version:** The `v2019-07-25` rule format supports the `advancedImMatch` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches whether the `imageManager` behavior already applies to the current set of requests.

| Option | Type | Description |
|--------|------|-------------|
|--------|------|-------------|

## bucket

- **Property Manager name:** [Percentage of Clients](#)<sup>↗</sup>
- **Criteria version:** The v2019-07-25 rule format supports the bucket criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This matches a specified percentage of requests when used with the required accompanying [spdy](#) behavior. Contact Akamai Professional Services for help configuring it.

| Option     | Type           | Description   |
|------------|----------------|---|
| percentage | number (0-100) | Specifies the percentage of SPDY requests to match. |

## cacheability

- **Property Manager name:** [Response Cacheability](#)<sup>↗</sup>
- **Criteria version:** The v2019-07-25 rule format supports the cacheability criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the current cache state. Note that any NO\_STORE or BYPASS\_CACHE HTTP headers set on the origin's content overrides properties' [caching](#) instructions, in which case this criteria does not apply.

| Option        | Type         | Description  |
|---------------|--------------|--|
| matchOperator | enum         | Specifies the match's logic.   |
|               | IS           | Cache state matches the value .  |
|               | IS_NOT       | Cache state does not match the value .   |
| value         | enum         | Content's cache is enabled ( CACHEABLE ) or not ( NO_STORE ), or else is ignored ( BYPASS_CACHE ). |
|               | NO_STORE     | Content cache is disabled.   |
|               | BYPASS_CACHE | Content cache is ignored.  |
|               | CACHEABLE    | Content cache is enabled.  |

## chinaCdnRegion

- **Property Manager name:** [ChinaCDN Region](#)<sup>↗</sup>
- **Criteria version:** The v2019-07-25 rule format supports the chinaCdnRegion criteria v1.0.

- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Identifies traffic deployed over Akamai's regional ChinaCDN infrastructure.

| Option        | Type                | Description  |
|---------------|---------------------|--|
| matchOperator | enum                | Specify whether the request <code>IS</code> or <code>IS_NOT</code> deployed over ChinaCDN. |
|               | <code>IS</code>     | The request is deployed over ChinaCDN.   |
|               | <code>IS_NOT</code> | The request is not deployed over ChinaCDN.   |

## clientCertificate

- **Property Manager name:** [Client certificate](#) <sup>↗</sup>
- **Criteria version:** The `v2019-07-25` rule format supports the `clientCertificate` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches whether you have configured a client certificate to authenticate requests to edge servers.

| Option               | Type                 | Description  | Requires                     |
|----------------------|----------------------|--|------------------------------|
| isCertificatePresent | boolean              | Executes rule behaviors only if a client certificate authenticates requests.   |                              |
| isCertificateValid   | enum                 | Matches whether the certificate is <code>VALID</code> or <code>INVALID</code> . You can also <code>IGNORE</code> the certificate's validity. | isCertificatePresent is true |
|                      | <code>VALID</code>   | Match when the certificate is valid.   |                              |
|                      | <code>INVALID</code> | Match when the certificate is invalid.   |                              |
|                      | <code>IGNORE</code>  | Ignores the certificate's is valid.  |                              |

## clientIp

- **Property Manager name:** [Client IP](#) <sup>↗</sup>
- **Criteria version:** The `v2019-07-25` rule format supports the `clientIp` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)


Matches the IP number of the requesting client.

| Option | Type | Description |
|--------|------|-------------|
|--------|------|-------------|



| Option         | Type                       | Description   |
|----------------|----------------------------|---|
| match Operator | enum                       | Matches the contents of <code>values</code> if set to <code>IS_ONE_OF</code> , otherwise <code>IS_NOT_ONE_OF</code> reverses the match.   |
|                | <code>IS_ONE_OF</code>     | Matches any of the specified <code>values</code> .  |
|                | <code>IS_NOT_ONE_OF</code> | Does not match any of the specified <code>values</code> .   |
| values         | string array               | IP or CIDR block, for example: <code>71.92.0.0/14</code> .  |
| use Headers    | boolean                    | When connecting via a proxy server as determined by the <code>X-Forwarded-For</code> header, enabling this option matches the connecting client's IP address rather than the original end client specified in the header. |


## clientIpVersion

- **Property Manager name:** [Client IP Version](#) 
- **Criteria version:** The `v2019-07-25` rule format supports the `clientIpVersion` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the version of the IP protocol used by the requesting client.

| Option             | Type              | Description   |
|--------------------|-------------------|---|
| value              | enum              | The IP version of the client request, either <code>IPV4</code> or <code>IPV6</code> .   |
|                    | <code>IPV4</code> | Matches the IPv4 protocol.  |
|                    | <code>IPV6</code> | Matches the IPv6 protocol.  |
| use XForwarded For | boolean           | When connecting via a proxy server as determined by the <code>X-Forwarded-For</code> header, enabling this option matches the connecting client's IP address rather than the original end client specified in the header. |

## cloudletsOrigin

- **Property Manager name:** [Conditional Origin ID](#) 
- **Criteria version:** The `v2019-07-25` rule format supports the `cloudletsOrigin` criteria v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Allows Cloudlets Origins, referenced by label, to define their own criteria to assign custom origin definitions. The criteria may match, for example, for a specified percentage of requests defined by the cloudlet to use an alternative

version of a website.

You need to pair this criteria with a sibling [origin](#) definition. It should not appear with any other criteria, and an [allowCloudletsOrigins](#) behavior needs to appear within a parent rule.

| Option   | Type   | Description  |
|----------|--------|--|
| originId | string | The Cloudlets Origins identifier, limited to alphanumeric and underscore characters. |

## contentDeliveryNetwork

- **Property Manager name:** CDN Network
- **Criteria version:** The v2019-07-25 rule format supports the `contentDeliveryNetwork` criteria v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies the type of Akamai network handling the request.

| Option        | Type       | Description  |
|---------------|------------|--|
| matchOperator | enum       | Matches the specified <code>network</code> if set to <code>IS</code> , otherwise <code>IS_NOT</code> reverses the match. |
|               | IS         | Matches the specified <code>network</code> .   |
|               | IS_NOT     | Does not match the specified <code>network</code> .  |
| network       | enum       | Match the network.   |
|               | STAGING    | Match the staging network.   |
|               | PRODUCTION | Match the production network.  |

## contentType

- **Property Manager name:** [Content Type](#)
- **Criteria version:** The v2019-07-25 rule format supports the `contentType` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the HTTP response header's `Content-Type`.

| Option        | Type      | Description   |
|---------------|-----------|---|
| matchOperator | enum      | Matches any <code>Content-Type</code> among specified <code>values</code> when set to <code>IS_ONE_OF</code> , otherwise <code>IS_NOT_ONE_OF</code> reverses the match. |
|               | IS_ONE_OF | Matches any <code>Content-Type</code> among the specified <code>values</code> .   |

| Option              | Type          | Description  |
|---------------------|---------------|--|
|                     | IS_NOT_ONE_OF | Matches none of the specified values .   |
| values              | string array  | Content-Type response header value, for example text/html .  |
| matchWildcard       | boolean       | Allows * and ? wildcard matches among the values , so that specifying text/* matches both text/html and text/css . |
| matchCase Sensitive | boolean       | Sets a case-sensitive match for all values .   |

## deviceCharacteristic

- **Property Manager name:** [Device Characteristics](#)
- **Criteria version:** The v2019-07-25 rule format supports the deviceCharacteristic criteria v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)


Match various aspects of the device or browser making the request. Based on the value of the characteristic option, the expected value is either a boolean, a number, or a string, possibly representing a version number. Each type of value requires a different field.

| Option         | Type                   | Description                               | <a href="#">Requires</a> |
|----------------|------------------------|---|--------------------------|
| characteristic | enum                   | Aspect of the device or browser to match. |                          |
|                | BRAND_NAME             | String value such as Samsung or Apple .   |                          |
|                | MODEL_NAME             | String value such as SCH-I110 .           |                          |
|                | MARKETING_NAME         | String value such as Samsung Illusion .   |                          |
|                | IS_WIRELESS_DEVICE     | Boolean value.                            |                          |
|                | IS_TABLET              | Boolean value, subset of IS_MOBILE .      |                          |
|                | DEVICE_OS              | String value.                             |                          |
|                | DEVICE_OS_VERSION      | Version string value.                     |                          |
|                | MOBILE_BROWSER         | String value.                             |                          |
|                | MOBILE_BROWSER_VERSION | Version string value.                     |                          |
|                | RESOLUTION_WIDTH       | Number of pixels wide.                    |                          |
|                | RESOLUTION_HEIGHT      | Number of pixels high.                    |                          |

| Option                | Type                      | Description   | <a href="#">Requires</a>   |
|-----------------------|---------------------------|---|--|
|                       | PHYSICAL_SCREEN_HEIGHT    | Number of millimeters high.   |  |
|                       | PHYSICAL_SCREEN_WIDTH     | Number of millimeters wide.   |  |
|                       | COOKIE_SUPPORT            | Boolean value.  |  |
|                       | AJAX_SUPPORT_JAVASCRIPT   | Boolean value.  |  |
|                       | FULL_FLASH_SUPPORT        | Boolean value.  |  |
|                       | ACCEPT_THIRD_PARTY_COOKIE | Boolean value.  |  |
|                       | XHTML_SUPPORT_LEVEL       | Numeric value.  |  |
|                       | IS_MOBILE                 | Boolean value.  |  |
| stringMatch Operator  | enum                      | When the <code>characteristic</code> expects a string value, set this to <code>MATCHES_ONE_OF</code> to match against the <code>stringValue</code> set, otherwise set to <code>DOES_NOT_MATCH_ONE_OF</code> to exclude that set of values.  | <code>characteristic</code> is either: <code>BRAND_NAME</code> , <code>MODEL_NAME</code> , <code>MARKETING_NAME</code> , <code>DEVICE_OS</code> , <code>MOBILE_BROWSER</code> , <code>PREFERRED_MARKUP</code> , <code>HTML_PREFERRED_DTD</code> , <code>XHTML_PREFERRED_CHARSET</code> , <code>VIEWPORT_WIDTH</code> , <code>XHTMLMP_PREFERRED_MIME_TYPE</code> , <code>AJAX_PREFERRED_GEOLOC_API</code> , <code>XHTML_FILE_UPLOAD</code> , <code>XHTML_SUPPORTS_IFRAME</code> , <code>FLASH_LITE_VERSION</code> |
|                       | MATCHES_ONE_OF            | The value is included as a <code>stringValue</code> .   |  |
|                       | DOES_NOT_MATCH_ONE_OF     | The value is not included as a <code>stringValue</code> .   |  |
| numericMatch Operator | enum                      | When the <code>characteristic</code> expects a numeric value, compares the specified <code>numericValue</code> against the matched client.  | <code>characteristic</code> is either: <code>RESOLUTION_WIDTH</code> , <code>RESOLUTION_HEIGHT</code> , <code>PHYSICAL_SCREEN_HEIGHT</code> , <code>PHYSICAL_SCREEN_WIDTH</code> , <code>XHTML_SUPPORT_LEVEL</code> , <code>MAX_IMAGE_WIDTH</code> , <code>MAX_IMAGE_HEIGHT</code> , <code>VIEWPORT_INITIAL_SCALE</code>   |
|                       | IS                        | Values are equal.   |  |
|                       | IS_NOT                    | Values are not equal.   |  |
|                       | IS_LESS_THAN              | The <code>numericValue</code> is less than the matched client.  |  |
|                       | IS_LESS_THAN_OR_EQUAL     | The <code>numericValue</code> is less than or equal to the matched client.  |  |
|                       | IS_MORE_THAN              | The <code>numericValue</code> is more than the matched client.  |  |
|                       | IS_MORE_THAN_OR_EQUAL     | The <code>numericValue</code> is more than or equal to the matched client.  |  |
| versionMatch Operator | enum                      | When the <code>characteristic</code> expects a version string value, compares the specified <code>version value</code> against the matched client, using the following operators: <code>IS</code> , <code>IS_MORE_THAN_OR_EQUAL</code> , <code>IS_MORE_THAN</code> , <code>IS_LESS_THAN_OR_EQUAL</code> , <code>IS_LESS_THAN</code> , <code>IS_NOT</code> . | <code>characteristic</code> is either: <code>DEVICE_OS_VERSION</code> , <code>MOBILE_BROWSER_VERSION</code>  |

| Option                           | Type                  | Description  | Requires  |
|----------------------------------|-----------------------|--|---|
|                                  | IS                    | The <code>versionValue</code> equals the matched client.   |   |
|                                  | IS_NOT                | The <code>versionValue</code> does not equal the matched client.                                 |   |
|                                  | IS_LESS_THAN          | The <code>versionValue</code> is less than the matched client.                                   |   |
|                                  | IS_LESS_THAN_OR_EQUAL | The <code>versionValue</code> is less than or equal to the matched client.                       |   |
|                                  | IS_MORE_THAN          | The <code>versionValue</code> is more than the matched client.                                   |   |
|                                  | IS_MORE_THAN_OR_EQUAL | The <code>versionValue</code> is more than or equal to the matched client.                       |   |
| <code>booleanValue</code>        | boolean               | When the <code>characteristic</code> expects a boolean value, this specifies the value.          | <code>characteristic</code> is either: <code>IS_WIRELESS_DEVICE</code> , <code>IS_TABLET</code> , <code>COOKIE_SUPPORT</code> , <code>AJAX_SUPPORT_JAVASCRIPT</code> , <code>FULL_FLASH_SUPPORT</code> , <code>DUAL_ORIENTATION</code> , <code>ACCEPT_THIRD_PARTY_COOKIE</code> , <code>GIF_ANIMATED</code> , <code>JPG</code> , <code>PNG</code> , <code>XHTML_SUPPORTS_TABLE_FOR_LAYOUT</code> , <code>XHTML_TABLE_SUPPORT</code> , <code>PDF_SUPPORT</code> , <code>IS_MOBILE</code> |
| <code>stringValue</code>         | string array          | When the <code>characteristic</code> expects a string, this specifies the set of values.         | <code>stringMatchOperator</code> is either: <code>MATCHES_ONE_OF</code> , <code>DOES_NOT_MATCH_ONE_OF</code>  |
| <code>numericValue</code>        | number                | When the <code>characteristic</code> expects a numeric value, this specifies the number.         | <code>numericMatchOperator</code> is either: <code>IS</code> , <code>IS_NOT</code> , <code>IS_LESS_THAN</code> , <code>IS_LESS_THAN_OR_EQUAL</code> , <code>IS_MORE_THAN</code> , <code>IS_MORE_THAN_OR_EQUAL</code>  |
| <code>versionValue</code>        | string                | When the <code>characteristic</code> expects a version number, this specifies it as a string.    | <code>versionMatchOperator</code> is either: <code>IS</code> , <code>IS_NOT</code> , <code>IS_LESS_THAN</code> , <code>IS_LESS_THAN_OR_EQUAL</code> , <code>IS_MORE_THAN</code> , <code>IS_MORE_THAN_OR_EQUAL</code>  |
| <code>matchCase Sensitive</code> | boolean               | Sets a case-sensitive match for the <code>string Value</code> field.                             | <code>stringMatchOperator</code> is either: <code>MATCHES_ONE_OF</code> , <code>DOES_NOT_MATCH_ONE_OF</code>  |
| <code>match Wildcard</code>      | boolean               | Allows <code>*</code> and <code>?</code> wildcard matches in the <code>stringValue</code> field. | <code>stringMatchOperator</code> is either: <code>MATCHES_ONE_OF</code> , <code>DOES_NOT_MATCH_ONE_OF</code>  |

## fileExtension

- **Property Manager name:** [File Extension](#) 
- **Criteria version:** The `v2019-07-25` rule format supports the `fileExtension` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the requested filename's extension, if present.

| Option                     | Type      | Description   |
|----------------------------|-----------|---|
| <code>matchOperator</code> | enum      | Matches the contents of <code>values</code> if set to <code>IS_ONE_OF</code> , otherwise <code>IS_NOT_ONE_OF</code> reverses the match. |
|                            | IS_ONE_OF | Matches any of the specified <code>values</code> .  |

| Option              | Type          | Description  |
|---------------------|---------------|--|
|                     | IS_NOT_ONE_OF | Does not match any of the specified values .   |
| values              | string array  | An array of file extension strings, with no leading dot characters, for example png , jpg , jpeg , and gif . |
| matchCase Sensitive | boolean       | Sets a case-sensitive match.   |

## filename

- **Property Manager name:** [Filename](#)
- **Criteria version:** The v2019-07-25 rule format supports the filename criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the requested filename, or test whether it is present.

| Option               | Type          | Description  | Requires   |
|----------------------|---------------|--|--|
| match Operator       | enum          | If set to IS_ONE_OF or IS_NOT_ONE_OF , matches whether the filename matches one of the values . If set to IS_EMPTY or IS_NOT_EMPTY , matches whether the specified filename is part of the path.   |  |
|                      | IS_ONE_OF     | The filename matches one of the values .   |  |
|                      | IS_NOT_ONE_OF | The filename does not match one of the values .  |  |
|                      | IS_EMPTY      | The filename is not part of the path.  |  |
|                      | IS_NOT_EMPTY  | The filename is part of the path.  |  |
| values               | string array  | Matches the filename component of the request URL. Wildcards are allowed, where ? matches a single character and * matches more than one. For example, specify filename.* to accept any extension. | matchOperator is either: IS_ONE_OF , IS_NOT_ONE_OF |
| match Case Sensitive | boolean       | Sets a case-sensitive match for the value field.   | matchOperator is either: IS_ONE_OF , IS_NOT_ONE_OF |

## hostname

- **Property Manager name:** [Hostname](#)
- **Criteria version:** The v2019-07-25 rule format supports the hostname criteria v1.1.

- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the requested hostname.

| Option         | Type                       | Description  |
|----------------|----------------------------|--|
| match Operator | enum                       | Matches the contents of <code>values</code> when set to <code>IS_ONE_OF</code> , otherwise <code>IS_NOT_ONE_OF</code> reverses the match.      |
|                | <code>IS_ONE_OF</code>     | Matches the contents of <code>values</code> .  |
|                | <code>IS_NOT_ONE_OF</code> | Does not match the contents of <code>values</code> .   |
| values         | string array               | A list of hostnames. Wildcards match, so <code>*.example.com</code> matches both <code>m.example.com</code> and <code>www.example.com</code> . |

## matchAdvanced

- **Property Manager name:** Advanced Match
- **Criteria version:** The `v2019-07-25` rule format supports the `matchAdvanced` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

This specifies match criteria using Akamai XML metadata. It can only be configured on your behalf by Akamai Professional Services.

| Option      | Type   | Description  |
|-------------|--------|--|
| description | string | A human-readable description of what the XML block does. |
| openXml     | string | An XML string that opens the relevant block.             |
| closeXml    | string | An XML string that closes the relevant block.            |

## matchCpCode

- **Property Manager name:** [Content Provider Code](#)<sup>\*)</sup>
- **Criteria version:** The `v2019-07-25` rule format supports the `matchCpCode` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Match the assigned content provider code.

| Option            | Type    | Description  |
|-------------------|---------|--|
| value             | object  | Specifies an object that encodes the matching value , including an id key and a descriptive name . |
| value.description | string  | Additional description for the CP code.  |
| value.id          | integer | Unique identifier for each CP code.  |
| value.name        | string  | The name of the CP code.   |
| value.products    | array   | The set of products the CP code is assigned to.  |

## matchResponseCode

- **Property Manager name:** [Response Status Code](#) <sup>↗</sup>
- **Criteria version:** The v2019-07-25 rule format supports the matchResponseCode criteria v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Match a set or range of HTTP response codes.

| Option         | Type           | Description   | Requires   |
|----------------|----------------|---|--|
| match Operator | enum           | Matches numeric range or a specified set of values .  |  |
|                | IS_ONE_OF      | Matches the contents of values .  |  |
|                | IS_NOT_ONE_OF  | Does not match the contents of values .   |  |
|                | IS_BETWEEN     | Matches the numeric range between lowerBound and upperBound .                                     |  |
|                | IS_NOT_BETWEEN | Does not match the numeric range between lowerBound and upper Bound .                             |  |
| values         | string array   | A set of response codes to match, for example ["404","500"] .                                     | matchOperator is either: IS_ONE_OF , IS_NOT_ONE_OF   |
| lower Bound    | number         | Specifies the start of a range of responses. For example, 400 to match anything from 400 to 500 . | matchOperator is either: IS_BETWEEN , IS_NOT_BETWEEN |
| upper Bound    | number         | Specifies the end of a range of responses. For example, 500 to match anything from 400 to 500 .   | matchOperator is either: IS_BETWEEN , IS_NOT_BETWEEN |

## matchVariable

- **Property Manager name:** [Variable](#) <sup>↗</sup>
- **Criteria version:** The v2019-07-25 rule format supports the matchVariable criteria v1.2.



- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches a built-in variable, or a custom variable pre-declared within the rule tree by the [setVariable](#) behavior. See [Support for variables](#) for more information on this feature.

| Option               | Type                                       | Description   | Requires  |
|----------------------|--|---|---|
| variable Name        | string ( <a href="#">variable name</a> )   | The name of the variable to match.  |   |
| match Operator       | enum                                       | The type of match, based on which you use different options to specify the match criteria.                                  |   |
|                      | IS   | Matches the <code>variableExpression</code> string.   |   |
|                      | IS_NOT                                     | Does not match the <code>variableExpression</code> string.  |   |
|                      | IS_ONE_OF                                  | Matches any of an array of string <code>variableValues</code> .   |   |
|                      | IS_NOT_ONE_OF                              | Does not match any of an array of string <code>variableValues</code> .  |   |
|                      | IS_EMPTY                                   | Matches if a defined variable does not contain a value. You can't activate a rule that matches an undefined variable.       |   |
|                      | IS_NOT_EMPTY                               | Matches if a defined variable contains a value. You can't activate a rule that matches an undefined variable.               |   |
|                      | IS_BETWEEN                                 | Is between the numeric <code>lowerBound</code> and <code>upperBound</code> values.  |   |
|                      | IS_NOT_BETWEEN                             | Is outside the numeric <code>lowerBound</code> and <code>upperBound</code> range.   |   |
|                      | IS_GREATER_THAN                            | Is greater than the <code>variableExpression</code> string-formatted number.  |   |
|                      | IS_GREATER_THAN_OR_EQUAL_TO                | Is greater than or equal to the <code>variableExpression</code> string-formatted number.                                    |   |
|                      | IS_LESS_THAN                               | Is less than the <code>variableExpression</code> string-formatted number.   |   |
|                      | IS_LESS_THAN_OR_EQUAL_TO                   | Is less than or equal to the <code>variableExpression</code> string-formatted number.                                       |   |
| variable Values      | string array                               | Specifies an array of matching strings.   | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code>   |
| variable Expression  | string (allows <a href="#">variables</a> ) | Specifies a single matching string.   | <code>matchOperator</code> is either: <code>IS</code> , <code>IS_NOT</code> , <code>IS_GREATER_THAN</code> , <code>IS_GREATER_THAN_OR_EQUAL_TO</code> , <code>IS_LESS_THAN</code> , <code>IS_LESS_THAN_OR_EQUAL_TO</code> |
| lower Bound          | string                                     | Specifies the range's numeric minimum value.  | <code>matchOperator</code> is either: <code>IS_BETWEEN</code> , <code>IS_NOT_BETWEEN</code>   |
| upper Bound          | string                                     | Specifies the range's numeric maximum value.  | <code>matchOperator</code> is either: <code>IS_BETWEEN</code> , <code>IS_NOT_BETWEEN</code>   |
| match Wildcard       | boolean                                    | When matching string expressions, enabling this matches wildcard metacharacters such as <code>*</code> and <code>?</code> . | <code>matchOperator</code> is either: <code>IS</code> , <code>IS_NOT</code> , <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code>   |
| match Case Sensitive | boolean                                    | When matching string expressions, enabling this performs a case-sensitive match.  | <code>matchOperator</code> is either: <code>IS</code> , <code>IS_NOT</code> , <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code>   |

# metadataStage

- **Property Manager name:** [Metadata Stage](#)<sup>\*</sup>
- **Criteria version:** The v2019-07-25 rule format supports the metadataStage criteria v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches how the current rule corresponds to low-level syntax elements in translated XML metadata, indicating progressive stages as each edge server handles the request and response. To use this match, you need to be thoroughly familiar with how Akamai edge servers process requests. Contact your Akamai Technical representative if you need help, and test thoroughly on staging before activating on production.

| Option            | Type                | Description   |
|-------------------|---------------------|---|
| match<br>Operator | enum                | Compares the current rule with the specified metadata stage.  |
|                   | IS                  | The current rule is at the specified metadata stage.  |
|                   | IS_NOT              | The current rule is not at the specified metadata stage.  |
| value             | enum                | Specifies the metadata stage.   |
|                   | cache-hit           | Content is cacheable and is already cached, but not yet tested for freshness.   |
|                   | client-done         | Occurs after the response completes and the response has been sent to the requesting client Only used for receipt requests and products like Cloud Monitor and Datastream.                  |
|                   | client-request      | When the Akamai server receives the request. Most processing happens in this stage, including determining the object's cacheability and cache key.  |
|                   | client-request-body | Runs when the Akamai server inspects the contents of a request POST body, typically as a security check.  |
|                   | client-response     | Occurs after the full response has been returned from the forward server or retrieved from Akamai's cache, prior to constructing a response.  |
|                   | content-policy      | This stage determines whether any Cloudlets or security products are associated with the request. It gets ignored in requests for other products.   |
|                   | forward-request     | Immediately before the Akamai server tries to connect to a forward server (either an Akamai parent server or a customer origin). Doesn't run for the content retrieved from Akamai's cache. |
|                   | forward-response    | After the forward server responds and all response headers have been read. Doesn't run for the content retrieved from Akamai's cache.   |
|                   | forward-start       | Immediately before the forward-request stage, while the Akamai server selects a forward server or persistent connection. Doesn't run for the content retrieved from Akamai's cache.         |
|                   | ipa-response        | Runs when a response is received from an intermediate processing agent (IPA) server, called at the end of the client-request stage.   |

## originTimeout

- **Property Manager name:** [Origin Timeout](#)
- **Criteria version:** The v2019-07-25 rule format supports the `originTimeout` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches when the origin responds with a timeout error.

| Option                     | Type                          | Description  |
|----------------------------|-------------------------------|--|
| <code>matchOperator</code> | enum                          | Specifies a single required <code>ORIGIN_TIMED_OUT</code> value. |
|                            | <code>ORIGIN_TIMED_OUT</code> | This is currently the only supported value.                      |

## path

- **Property Manager name:** [Path](#)
- **Criteria version:** The v2019-07-25 rule format supports the `path` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the URL's non-hostname path component.

| Option                          | Type                               | Description  |
|---------------------------------|------------------------------------|--|
| <code>matchOperator</code>      | enum                               | Matches the contents of the <code>values</code> array.   |
|                                 | <code>MATCHES_ONE_OF</code>        | Matches any of the <code>values</code> array.  |
|                                 | <code>DOES_NOT_MATCH_ONE_OF</code> | Matches none of the <code>values</code> array.   |
| <code>values</code>             | string array                       | Matches the URL path, excluding leading hostname and trailing query parameters. The path is relative to the server root, for example <code>/blog</code> . The <code>value</code> accepts <code>*</code> or <code>?</code> wildcard characters, for example <code>/blog/*/2014</code> . |
| <code>matchCaseSensitive</code> | boolean                            | Sets a case-sensitive match.   |

## queryStringParameter

- **Property Manager name:** [Query String Parameter](#)
- **Criteria version:** The v2019-07-25 rule format supports the `queryStringParameter` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)

- **Access:** [Read-write](#)

Matches query string field names or values.

| Option                  | Type           | Description  | <a href="#">Requires</a>  |
|-------------------------|----------------|--|---|
| parameterName           | string         | The name of the query field, for example, <code>q</code> in <code>?q=string</code> .               |   |
| matchOperator           | enum           | Narrows the match criteria.  |   |
|                         | IS_ONE_OF      | Tests whether the field's <code>value</code> string matches.                                       |   |
|                         | IS_NOT_ONE_OF  | Tests whether the field's <code>value</code> string does not match.                                |   |
|                         | EXISTS         | Whether the query field's <code>parameterName</code> is present in the requesting URL.             |   |
|                         | DOES_NOT_EXIST | Whether the query field's <code>parameterName</code> is absent from the requesting URL.            |   |
|                         | IS_LESS_THAN   | Matches a range when the <code>value</code> is numeric.  |   |
|                         | IS_MORE_THAN   | Matches a range when the <code>value</code> is numeric.  |   |
|                         | IS_BETWEEN     | Is between the numeric <code>lowerBound</code> and <code>upperBound</code> values.                 |   |
| values                  | string array   | The value of the query field, for example, <code>string</code> in <code>?q=string</code> .         | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code> |
| lowerBound              | number         | Specifies the match's minimum value.   | <code>matchOperator</code> is either: <code>IS_MORE_THAN</code> , <code>IS_BETWEEN</code> |
| upperBound              | number         | When the <code>value</code> is numeric, this field specifies the match's maximum value.            | <code>matchOperator</code> is either: <code>IS_LESS_THAN</code> , <code>IS_BETWEEN</code> |
| matchWildcardName       | boolean        | Allows <code>*</code> and <code>?</code> wildcard matches in the <code>parameterName</code> field. |   |
| matchCaseSensitiveName  | boolean        | Sets a case-sensitive match for the <code>parameterName</code> field.                              |   |
| matchWildcardValue      | boolean        | Allows <code>*</code> and <code>?</code> wildcard matches in the <code>value</code> field.         | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code> |
| matchCaseSensitiveValue | boolean        | Sets a case-sensitive match for the <code>value</code> field.                                      | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code> |
| escapeValue             | boolean        | Matches when the <code>value</code> is URL-escaped.  | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code> |

## random

- **Property Manager name:** [Sample Percentage](#) <sup>✎</sup>
- **Criteria version:** The `v2019-07-25` rule format supports the `random` criteria v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches a specified percentage of requests. Use this match to apply behaviors to a percentage of your incoming requests that differ from the remainder, useful for A/b testing, or to offload traffic onto different servers.

| Option | Type           | Description  |
|--------|----------------|--|
| bucket | number (0-100) | Specify a percentage of random requests to which to apply a behavior. Any remainders do not match. |

## regularExpression

- **Property Manager name:** [Regex](#)
- **Criteria version:** The v2019-07-25 rule format supports the `regularExpression` criteria v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches a regular expression against a string, especially to apply behaviors flexibly based on the contents of dynamic [variables](#).

| Option        | Type                                       | Description  |
|---------------|--|--|
| matchString   | string (allows <a href="#">variables</a> ) | The string to match, typically the contents of a dynamic variable. |
| regex         | string                                     | The regular expression (PCRE) to match against the string.         |
| caseSensitive | boolean                                    | Sets a case-sensitive regular expression match.                    |

## requestCookie

- **Property Manager name:** [Request Cookie](#)
- **Criteria version:** The v2019-07-25 rule format supports the `requestCookie` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Match the cookie name or value passed with the request.

| Option        | Type   | Description  | <a href="#">Requires</a> |
|---------------|--------|--|--------------------------|
| cookieName    | string | The name of the cookie, for example, <code>visitor</code> in <code>visitor:anon</code> . |                          |
| matchOperator | enum   | Narrows the match criteria.  |                          |
|               | IS     | If the field's <code>value</code> string matches.  |                          |
|               | IS_NOT | If the field's <code>value</code> string does not match.                                 |                          |
|               | EXISTS | Matches if the <code>cookieName</code> cookie exists.                                    |                          |

| Option                                | Type           | Description   | <a href="#">Requires</a>  |
|---------------------------------------|----------------|---|---|
|                                       | DOES_NOT_EXIST | Matches if the <code>cookieName</code> cookie does not exist.                                   |   |
|                                       | IS_BETWEEN     | Is between the numeric <code>lowerBound</code> and <code>upperBound</code> values.              |   |
| <code>value</code>                    | string         | The cookie's value, for example, <code>anon</code> in <code>visitor:anon</code> .               | <code>matchOperator</code> is either: <code>IS</code> , <code>IS_NOT</code> |
| <code>lowerBound</code>               | number         | When the <code>value</code> is numeric, this field specifies the match's minimum value.         | <code>matchOperator</code> is <code>IS_BETWEEN</code>                       |
| <code>upperBound</code>               | number         | When the <code>value</code> is numeric, this field specifies the match's maximum value.         | <code>matchOperator</code> is <code>IS_BETWEEN</code>                       |
| <code>matchWildcardName</code>        | boolean        | Allows <code>*</code> and <code>?</code> wildcard matches in the <code>cookieName</code> field. |   |
| <code>matchCaseSensitive Name</code>  | boolean        | Sets a case-sensitive match for the <code>cookieName</code> field.                              |   |
| <code>matchWildcardValue</code>       | boolean        | Allows <code>*</code> and <code>?</code> wildcard matches in the <code>value</code> field.      | <code>matchOperator</code> is either: <code>IS</code> , <code>IS_NOT</code> |
| <code>matchCaseSensitive Value</code> | boolean        | Sets a case-sensitive match for the <code>value</code> field.                                   | <code>matchOperator</code> is either: <code>IS</code> , <code>IS_NOT</code> |

## requestHeader


- **Property Manager name:** [Request Header](#)
- **Criteria version:** The `v2019-07-25` rule format supports the `requestHeader` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Match HTTP header names or values.

| Option                           | Type           | Description  | <a href="#">Requires</a>  |
|----------------------------------|----------------|--|---|
| <code>headerName</code>          | string         | The name of the request header, for example <code>Accept-Language</code> .   |   |
| <code>matchOperator</code>       | enum           | Narrows the match criteria.  |   |
|                                  | IS_ONE_OF      | Tests whether the field's <code>value</code> string matches.   |   |
|                                  | IS_NOT_ONE_OF  | Tests whether the field's <code>value</code> string does not match.  |   |
|                                  | EXISTS         | Tests if the <code>headerName</code> field exists.   |   |
|                                  | DOES_NOT_EXIST | Tests if the <code>headerName</code> field is absent.  |   |
| <code>values</code>              | string array   | The request header's value, for example <code>en-US</code> when the header <code>headerName</code> is <code>Accept-Language</code> . | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code> |
| <code>matchWildcard Name</code>  | boolean        | Allows <code>*</code> and <code>?</code> wildcard matches in the <code>headerName</code> field.                                      |   |
| <code>matchWildcard Value</code> | boolean        | Allows <code>*</code> and <code>?</code> wildcard matches in the <code>value</code> field.   | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code> |

| Option                      | Type    | Description   | Requires   |
|-----------------------------|---------|---|--|
| matchCase<br>SensitiveValue | boolean | Sets a case-sensitive match for the <code>value</code> field. | matchOperator is either: IS_ONE_OF , IS_NOT_ONE_OF |

## requestMethod

- **Property Manager name:** [Request Method](#) 
- **Criteria version:** The `v2019-07-25` rule format supports the `requestMethod` criteria v1.4.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specify the request's HTTP verb. Also supports WebDAV methods and common Akamai operations.

| Option        | Type             | Description  |
|---------------|------------------|--|
| matchOperator | enum             | Matches the <code>value</code> when set to <code>IS</code> , otherwise <code>IS_NOT</code> reverses the match. |
|               | IS               | Matches the <code>value</code> .   |
|               | IS_NOT           | Does not match the <code>value</code> .  |
| value         | enum             | Any of these HTTP methods, WebDAV methods, or Akamai operations.   |
|               | GET              | Standard HTTP method.  |
|               | POST             | Standard HTTP method.  |
|               | HEAD             | Standard HTTP method.  |
|               | PUT              | Standard HTTP method.  |
|               | PATCH            | Standard HTTP method.  |
|               | HTTP_DELETE      | Standard HTTP method. Note the additional prefix.  |
|               | AKAMAI_TRANSLATE | Akamai operation.  |
|               | AKAMAI_PURGE     | Akamai operation.  |
|               | OPTIONS          | Standard HTTP method.  |
|               | DAV_ACL          | WebDAV method.   |
|               | DAV_CHECKOUT     | WebDAV method.   |
|               | DAV_COPY         | WebDAV method.   |
|               | DAV_DMCREATE     | WebDAV method.   |
|               | DAV_DMINDEX      | WebDAV method.   |
|               | DAV_DMMKPATH     | WebDAV method.   |
|               | DAV_DMMKPATHS    | WebDAV method.   |
|               | DAV_DMOVERLAY    | WebDAV method.   |
|               | DAV_DMPATCHPATHS | WebDAV method.   |
|               | DAV_LOCK         | WebDAV method.   |
|               | DAV_MKCALENDAR   | WebDAV method.   |

| Option | Type            | Description    |
|--------|-----------------|----------------|
|        | DAV_MKCOL       | WebDAV method. |
|        | DAV_MOVE        | WebDAV method. |
|        | DAV_PROPFIND    | WebDAV method. |
|        | DAV_PROPPATCH   | WebDAV method. |
|        | DAV_REPORT      | WebDAV method. |
|        | DAV_SETPROCESS  | WebDAV method. |
|        | DAV_SETREDIRECT | WebDAV method. |
|        | DAV_TRUTHGET    | WebDAV method. |
|        | DAV_UNLOCK      | WebDAV method. |

## requestProtocol

- **Property Manager name:** [Request Protocol](#)
- **Criteria version:** The v2019-07-25 rule format supports the requestProtocol criteria v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches whether the request uses the HTTP or HTTPS protocol.

| Option | Type | Description                                     |
|--------|------|---|
| value  | enum | Specifies the protocol.                         |
|        |      | <b>Supported values:</b><br>HTTP          HTTPS |

## requestType

- **Property Manager name:** [Request Type](#)
- **Criteria version:** The v2019-07-25 rule format supports the requestType criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the basic type of request. To use this match, you need to be thoroughly familiar with how Akamai edge servers process requests. Contact your Akamai Technical representative if you need help, and test thoroughly on staging before activating on production.



| Option            | Type                       | Description  |
|-------------------|----------------------------|--|
| match<br>Operator | enum                       | Specifies whether the request <code>IS</code> or <code>IS_NOT</code> the type of specified <code>value</code> .                              |
|                   | <code>IS</code>            | The request is the type of specified <code>value</code> .  |
|                   | <code>IS_NOT</code>        | The request is not the type of specified <code>value</code> .  |
| value             | enum                       | Specifies the type of request, either a standard <code>CLIENT_REQ</code> , an <code>ESI_FRAGMENT</code> , or an <code>EW_SUBREQUEST</code> . |
|                   | <code>CLIENT_REQ</code>    | A client request.  |
|                   | <code>ESI_FRAGMENT</code>  | An Edge Side Include fragment.   |
|                   | <code>EW_SUBREQUEST</code> | An EdgeWorkers sub-request.  |

## responseHeader

- **Property Manager name:** [Response Header](#)
- **Criteria version:** The `v2019-07-25` rule format supports the `responseHeader` criteria v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Match HTTP header names or values.

| Option            | Type                        | Description  | <a href="#">Requires</a>  |
|-------------------|-----------------------------|--|---|
| headerName        | string                      | The name of the response header, for example <code>Content-Type</code> .   |   |
| match<br>Operator | enum                        | Narrows the match according to various criteria.   |   |
|                   | <code>IS_ONE_OF</code>      | The field's <code>value</code> string matches.   |   |
|                   | <code>IS_NOT_ONE_OF</code>  | The field's <code>value</code> string does not match.  |   |
|                   | <code>EXISTS</code>         | The HTTP field <code>headerName</code> is present.   |   |
|                   | <code>DOES_NOT_EXIST</code> | The HTTP field <code>headerName</code> is absent.  |   |
|                   | <code>IS_LESS_THAN</code>   | Matches ranges when the <code>value</code> is numeric.   |   |
|                   | <code>IS_MORE_THAN</code>   | Matches ranges when the <code>value</code> is numeric.   |   |
|                   | <code>IS_BETWEEN</code>     | Is between the numeric <code>lowerBound</code> and <code>upperBound</code> values.   |   |
| values            | string<br>array             | The response header's value, for example <code>application/x-www-form-urlencoded</code> when the header <code>headerName</code> is <code>Content-Type</code> . | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code> |
| lowerBound        | number                      | When the <code>value</code> is numeric, this field specifies the match's minimum value.  | <code>matchOperator</code> is either: <code>IS_MORE_THAN</code> , <code>IS_BETWEEN</code> |

| Option                    | Type    | Description   | Requires  |
|---------------------------|---------|---|---|
| upperBound                | number  | When the <code>value</code> is numeric, this field specifies the match's maximum value.         | <code>matchOperator</code> is either: <code>IS_LESS_THAN</code> , <code>IS_BETWEEN</code> |
| match Wildcard Name       | boolean | Allows <code>*</code> and <code>?</code> wildcard matches in the <code>headerName</code> field. |   |
| match WildcardValue       | boolean | Allows <code>*</code> and <code>?</code> wildcard matches in the <code>value</code> field.      | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code> |
| matchCase Sensitive Value | boolean | When enabled, the match is case-sensitive for the <code>value</code> field.                     | <code>matchOperator</code> is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code> |

## time

- **Property Manager name:** [Time Interval](#)
- **Criteria version:** The `v2019-07-25` rule format supports the `time` criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies ranges of times during which the request occurred.

| Option            | Type               | Description  | Requires                    |
|-------------------|--------------------|--|-----------------------------|
| match Operator    | enum               | Specifies how to define the range of time.   |                             |
|                   | BEGINNING          | The duration is indefinite, using the value of <code>beginDate</code> .  |                             |
|                   | BETWEEN            | Sets a single range between two dates, using the values of <code>beginDate</code> and <code>endDate</code> .   |                             |
|                   | LASTING            | Sets a single range, but based on duration relative to the starting time. It relies on the values of <code>lastingDate</code> and <code>lastingDuration</code> .                                     |                             |
|                   | REPEATING          | Allows a <code>LASTING</code> -style range to repeat at regular intervals. It relies on the values of <code>repeatBeginDate</code> , <code>repeatDuration</code> , and <code>repeatInterval</code> . |                             |
| repeat Interval   | string (duration)  | Sets the time between each repeating time period's starting points.  | match Operator is REPEATING |
| repeat Duration   | string (duration)  | Sets the duration of each repeating time period.   | match Operator is REPEATING |
| lasting Duration  | string (duration)  | Specifies the end of a time period as a duration relative to the <code>lastingDate</code> .  | match Operator is LASTING   |
| lasting Date      | string (timestamp) | Sets the start of a fixed time period.   | match Operator is LASTING   |
| repeat Begin Date | string (timestamp) | Sets the start of the initial time period.   | match Operator is REPEATING |

| Option                               | Type                  | Description   | Requires  |
|--------------------------------------|-----------------------|---|---|
| apply<br>Daylight<br>Savings<br>Time | boolean               | Adjusts the start time plus repeat interval to account for daylight saving time. Applies when the current time and the start time use different systems, daylight and standard, and the two values are in conflict. | match<br>Operator is<br>REPEATING                                       |
| begin<br>Date                        | string<br>(timestamp) | Sets the start of a time period.  | match<br>Operator is<br>BEGINNING<br>OR match<br>Operator is<br>BETWEEN |
| endDate                              | string<br>(timestamp) | Sets the end of a fixed time period.  | match<br>Operator is<br>BETWEEN   |


## tokenAuthorization

- **Property Manager name:** Token Verification Result
- **Criteria version:** The v2019-07-25 rule format supports the tokenAuthorization criteria v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Match on Auth Token 2.0 verification results.

| Option        | Type              | Description                     | Requires |
|---------------|-------------------|---------------------------------|----------|
| matchOperator | enum              | Error match scope.              |          |
|               | IS_SUCCESS        | No errors occurred.             |          |
|               | IS_CUSTOM_FAILURE | Match any error in statusList . |          |
|               | IS_ANY_FAILURE    | Any error occurred.             |          |

## userAgent

- **Property Manager name:** [User Agent](#) 
- **Criteria version:** The v2019-07-25 rule format supports the userAgent criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the user agent string that helps identify the client browser and device.

| Option | Type | Description |
|--------|------|-------------|
|--------|------|-------------|

| Option              | Type          | Description  |
|---------------------|---------------|--|
| matchOperator       | enum          | Matches the specified set of values when set to IS_ONE_OF , otherwise IS_NOT_ONE_OF reverses the match.            |
|                     | IS_ONE_OF     | Matches any of the specified values .  |
|                     | IS_NOT_ONE_OF | Does not match any of the specified values .   |
| values              | string array  | The User-Agent header's value. For example, Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1) .                   |
| matchWildcard       | boolean       | Allows * and ? wildcard matches in the value field. For example, *Android* , *iPhone5* , *Firefox* , or *Chrome* . |
| matchCase Sensitive | boolean       | Sets a case-sensitive match for the value field.   |

## userLocation

- **Property Manager name:** [User Location Data](#)
- **Criteria version:** The v2019-07-25 rule format supports the userLocation criteria v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

The client browser's approximate geographic location, determined by looking up the IP address in a database.

| Option           | Type          | Description   | Requires           |
|------------------|---------------|---|--------------------|
| field            | enum          | Indicates the geographic scope.   |                    |
|                  | COUNTRY       | Country.  |                    |
|                  | CONTINENT     | Continent.  |                    |
|                  | REGION        | States or provinces within a country.   |                    |
| match Operator   | enum          | Matches the specified set of values when set to IS_ONE_OF , otherwise IS_NOT_ONE_OF reverses the match. |                    |
|                  | IS_ONE_OF     | Matches any of the specified values .   |                    |
|                  | IS_NOT_ONE_OF | Does not match any of the specified values .  |                    |
| country Values   | string array  | ISO 3166-1 country codes, such as US or CN .  | field is COUNTRY   |
| continent Values | string array  | Continent codes.  | field is CONTINENT |
|                  | AF            | Africa.   |                    |
|                  | AS            | Asia.   |                    |
|                  | EU            | Europe.   |                    |
|                  | NA            | North America.  |                    |
|                  | OC            | Oceania.  |                    |
|                  | OT            | Antarctica.   |                    |

| Option                                  | Type         | Description   | Requires                                    |
|---|--------------|---|---|
|   | SA           | South America.  |   |
| region<br>Values                        | string array | ISO 3166 country and region codes, for example US:MA for Massachusetts or JP:13 for Tokyo.  | field is<br>REGION                          |
| checkIps                                | enum         | Specifies which IP addresses determine the user's location.   |   |
|   | BOTH         | Behaves like HEADERS , but also considers the connecting client's IP address.   |   |
|   | CONNECTING   | Considers the connecting client's IP address.   |   |
|   | HEADERS      | Considers IP addresses specified in the X-Forwarded-For header, succeeding if any of them match.  |   |
| useOnly<br>First<br>XForwarded<br>ForIp | boolean      | When connecting via a proxy server as determined by the X-Forwarded-For header, enabling this option matches the end client specified in the header. Disabling it matches the connecting client's IP address. | checkIps is<br>either:<br>BOTH ,<br>HEADERS |

## userNetwork

- **Property Manager name:** [User Network Data](#)
- **Criteria version:** The v2019-07-25 rule format supports the userNetwork criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches details of the network over which the request was made, determined by looking up the IP address in a database.

| Option            | Type              | Description   | Requires            |
|-------------------|-------------------|---|---------------------|
| field             | enum              | The type of information to match.   |                     |
|                   | NETWORK           | A specific network.   |                     |
|                   | NETWORK_<br>TYPE  | A more general NETWORK_TYPE .   |                     |
|                   | BANDWIDTH         | Bandwidth.  |                     |
| match<br>Operator | enum              | Matches the specified set of values when set to IS_ONE_OF , otherwise IS_NOT_ONE_OF reverses the match. |                     |
|                   | IS_ONE_OF         | Matches any of the specified values .   |                     |
|                   | IS_NOT_ONE_<br>OF | Does not match any of the specified values .  |                     |
| network<br>Values | string array      | Any set of specific networks.   | field is<br>NETWORK |

| Option                                  | Type           | Description  | Requires                                    |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
|---|----------------|--|---|------|------------|--------|--------|---------|-------|---------|----------------|-----------|----------|---------|------------------|------------|---------|-----------------|-----|-------|----------|-----|-------|------|-----|------|-------|---------|----------|-----------|-----|----------|-----------|--------|-----|------|-----------|--------|-----------|-----|-----|------------|-------------|-----------|-------|----------|---------|---------|--------|---------|-----------|------|-------------|------------|----------|----------|-----|---------|--------------|-----------|-----|--------------|-------|---------|-----|----|----|----------|-----------------|----------|----------|----------------|-------|-------------|-------------|------|---------|---------|--------|---------|---------|--------------|---------|----------|-------|----------|----------|-------------|-----|------|--------------|-----|---------|--------|--------------|-------|---------|-----|-----------|-----|----------|-------|--------|---------|------------|-------|--------------|------|-------------|---------|--|
|   |                | <b>Supported values:</b> <table> <tr><td>@NIFTY</td><td>COLT</td><td>INFOSPHERE</td><td>ROGERS</td></tr> <tr><td>AIRTEL</td><td>COMCAST</td><td>JANET</td><td>SASKTEL</td></tr> <tr><td>ALPHA_INTERNET</td><td>COMPLETEL</td><td>JAZZTELL</td><td>SEEDNET</td></tr> <tr><td>ALTITUDE_TELECOM</td><td>COMPUSERVE</td><td>JUSTNET</td><td>SEIKYO_INTERNET</td></tr> <tr><td>AOL</td><td>COVAD</td><td>LIVEDOOR</td><td>SFR</td></tr> <tr><td>ARNET</td><td>DION</td><td>MCI</td><td>SHAW</td></tr> <tr><td>ASAHI</td><td>DIRECTV</td><td>MEDIACOM</td><td>SOFTLAYER</td></tr> <tr><td>ATT</td><td>DREAMNET</td><td>MEDIA_ONE</td><td>SO_NET</td></tr> <tr><td>AWS</td><td>DTAG</td><td>MICROSOFT</td><td>SPRINT</td></tr> <tr><td>BELLALIAN</td><td>DTI</td><td>MIL</td><td>SUDDENLINK</td></tr> <tr><td>BELL_CANADA</td><td>EARTHLINK</td><td>NERIM</td><td>TALKTALK</td></tr> <tr><td>BIGLOBE</td><td>EASYNET</td><td>NEWNET</td><td>TEKSAVY</td></tr> <tr><td>BITMAILER</td><td>EITC</td><td>NUMERICABLE</td><td>TELEFONICA</td></tr> <tr><td>BOUYGUES</td><td>ETISALAT</td><td>OCN</td><td>TELSTRA</td></tr> <tr><td>BRIGHT_HOUSE</td><td>EUROCIBER</td><td>ODN</td><td>TERRA_MEXICO</td></tr> <tr><td>BSKYB</td><td>FASTWEB</td><td>ONO</td><td>TI</td></tr> <tr><td>BT</td><td>FIBERTEL</td><td>PANASONIC_HI_HO</td><td>TIKITIKI</td></tr> <tr><td>CABLEONE</td><td>FRANCE_TELECOM</td><td>PLALA</td><td>TIME_WARNER</td></tr> <tr><td>CABLEVISION</td><td>FREE</td><td>PLUSNET</td><td>TISCALI</td></tr> <tr><td>CERNET</td><td>FREECOM</td><td>PRODIGY</td><td>TURK_TELEKOM</td></tr> <tr><td>CHARTER</td><td>FRONTIER</td><td>QWEST</td><td>T_MOBILE</td></tr> <tr><td>CHINANET</td><td>GOOGLECLOUD</td><td>RCN</td><td>UNI2</td></tr> <tr><td>CHINA_MOBILE</td><td>H3G</td><td>REDIRIS</td><td>UNINET</td></tr> <tr><td>CHINA_UNICOM</td><td>HINET</td><td>RENATER</td><td>UPC</td></tr> <tr><td>CLEARWIRE</td><td>IBM</td><td>RESERVED</td><td>USEMB</td></tr> <tr><td>COGECO</td><td>IDECNET</td><td>RETEVISION</td><td>UUNET</td></tr> <tr><td>COLOCROSSING</td><td>IJ4U</td><td>ROAD_RUNNER</td><td>VERIZON</td></tr> </table> | @NIFTY                                      | COLT | INFOSPHERE | ROGERS | AIRTEL | COMCAST | JANET | SASKTEL | ALPHA_INTERNET | COMPLETEL | JAZZTELL | SEEDNET | ALTITUDE_TELECOM | COMPUSERVE | JUSTNET | SEIKYO_INTERNET | AOL | COVAD | LIVEDOOR | SFR | ARNET | DION | MCI | SHAW | ASAHI | DIRECTV | MEDIACOM | SOFTLAYER | ATT | DREAMNET | MEDIA_ONE | SO_NET | AWS | DTAG | MICROSOFT | SPRINT | BELLALIAN | DTI | MIL | SUDDENLINK | BELL_CANADA | EARTHLINK | NERIM | TALKTALK | BIGLOBE | EASYNET | NEWNET | TEKSAVY | BITMAILER | EITC | NUMERICABLE | TELEFONICA | BOUYGUES | ETISALAT | OCN | TELSTRA | BRIGHT_HOUSE | EUROCIBER | ODN | TERRA_MEXICO | BSKYB | FASTWEB | ONO | TI | BT | FIBERTEL | PANASONIC_HI_HO | TIKITIKI | CABLEONE | FRANCE_TELECOM | PLALA | TIME_WARNER | CABLEVISION | FREE | PLUSNET | TISCALI | CERNET | FREECOM | PRODIGY | TURK_TELEKOM | CHARTER | FRONTIER | QWEST | T_MOBILE | CHINANET | GOOGLECLOUD | RCN | UNI2 | CHINA_MOBILE | H3G | REDIRIS | UNINET | CHINA_UNICOM | HINET | RENATER | UPC | CLEARWIRE | IBM | RESERVED | USEMB | COGECO | IDECNET | RETEVISION | UUNET | COLOCROSSING | IJ4U | ROAD_RUNNER | VERIZON |  |
| @NIFTY                                  | COLT           | INFOSPHERE   | ROGERS                                      |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| AIRTEL                                  | COMCAST        | JANET  | SASKTEL                                     |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| ALPHA_INTERNET                          | COMPLETEL      | JAZZTELL   | SEEDNET                                     |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| ALTITUDE_TELECOM                        | COMPUSERVE     | JUSTNET  | SEIKYO_INTERNET                             |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| AOL                                     | COVAD          | LIVEDOOR   | SFR   |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| ARNET                                   | DION           | MCI  | SHAW  |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| ASAHI                                   | DIRECTV        | MEDIACOM   | SOFTLAYER                                   |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| ATT                                     | DREAMNET       | MEDIA_ONE  | SO_NET                                      |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| AWS                                     | DTAG           | MICROSOFT  | SPRINT                                      |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| BELLALIAN                               | DTI            | MIL  | SUDDENLINK                                  |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| BELL_CANADA                             | EARTHLINK      | NERIM  | TALKTALK                                    |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| BIGLOBE                                 | EASYNET        | NEWNET   | TEKSAVY                                     |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| BITMAILER                               | EITC           | NUMERICABLE  | TELEFONICA                                  |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| BOUYGUES                                | ETISALAT       | OCN  | TELSTRA                                     |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| BRIGHT_HOUSE                            | EUROCIBER      | ODN  | TERRA_MEXICO                                |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| BSKYB                                   | FASTWEB        | ONO  | TI  |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| BT                                      | FIBERTEL       | PANASONIC_HI_HO  | TIKITIKI                                    |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| CABLEONE                                | FRANCE_TELECOM | PLALA  | TIME_WARNER                                 |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| CABLEVISION                             | FREE           | PLUSNET  | TISCALI                                     |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| CERNET                                  | FREECOM        | PRODIGY  | TURK_TELEKOM                                |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| CHARTER                                 | FRONTIER       | QWEST  | T_MOBILE                                    |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| CHINANET                                | GOOGLECLOUD    | RCN  | UNI2  |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| CHINA_MOBILE                            | H3G            | REDIRIS  | UNINET                                      |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| CHINA_UNICOM                            | HINET          | RENATER  | UPC   |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| CLEARWIRE                               | IBM            | RESERVED   | USEMB                                       |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| COGECO                                  | IDECNET        | RETEVISION   | UUNET                                       |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| COLOCROSSING                            | IJ4U           | ROAD_RUNNER  | VERIZON                                     |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| bandwidth<br>Values                     | string array   | Bandwidth range in bits per second, either 1 , 57 , 257 , 1000 , 2000 , or 5000 .  | field is<br>BANDWIDTH                       |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| checklps                                | enum           | Specifies which IP addresses determine the user's network.   |   |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
|   | BOTH           | Behaves like HEADERS , but also considers the connecting client's IP address.  |   |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
|   | CONNECTING     | Considers the connecting client's IP address.  |   |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
|   | HEADERS        | Considers IP addresses specified in the X-Forwarded-For header, succeeding if any of them match.   |   |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |
| useOnly<br>First<br>XForwarded<br>ForIp | boolean        | When connecting via a proxy server as determined by the X-Forwarded-For header, enabling this option matches the end client specified in the header. Disabling it matches the connecting client's IP address.  | checklps is<br>either:<br>BOTH ,<br>HEADERS |      |            |        |        |         |       |         |                |           |          |         |                  |            |         |                 |     |       |          |     |       |      |     |      |       |         |          |           |     |          |           |        |     |      |           |        |           |     |     |            |             |           |       |          |         |         |        |         |           |      |             |            |          |          |     |         |              |           |     |              |       |         |     |    |    |          |                 |          |          |                |       |             |             |      |         |         |        |         |         |              |         |          |       |          |          |             |     |      |              |     |         |        |              |       |         |     |           |     |          |       |        |         |            |       |              |      |             |         |  |

## variableError

- **Property Manager name:** [Variable Error](#)
- **Criteria version:** The v2019-07-25 rule format supports the variableError criteria v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches any runtime errors that occur on edge servers based on the configuration of a [setVariable](#) behavior. See [Support for variables](#) section for more information on this feature.

| Option | Type    | Description   |
|--------|---------|---|
| result | boolean | Matches errors for the specified set of variableNames , otherwise matches errors from variables outside that set. |

| Option            | Type            | Description  |
|-------------------|-----------------|--|
| variable<br>Names | string<br>array | The name of the variable whose error triggers the match, or a space- or comma-delimited list of more than one variable name. Note that if you define a variable named <code>VAR</code> , the name in this field needs to appear with its added prefix as <code>PMUSER_VAR</code> . When such a variable is inserted into other fields, it appears with an additional namespace as <code>{{user.PMUSER_VAR}}</code> . See the <a href="#">setVariable</a> behavior for details on variable names. |

# Notice

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