



# **v2021-09-22 Property Manager Deprecated Rule Formats**

January 9, 2023

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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](#)  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 v2021-09-22 **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.

## v2021-09-22 behaviors

### v2021-09-22 behaviors

This section provides details for all behaviors the Property Manager API supports for the v2021-09-22 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 v2021-09-22 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](#)✎
- **Behavior version:** The v2021-09-22 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	<a href="#">Requires</a>
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Option	Type	Description	<a href="#">Requires</a>
responseDelayBased	boolean	Triggers a fallback action based on the delayed response from the technology partner's server.	
responseDelayThreshold	enum	Specifies the maximum response delay that, if exceeded, triggers the fallback action.	responseDelayBased is true
		<b>Supported values:</b> 500ms	
responseCodeBased	boolean	Triggers a fallback action based on the response code from the technology partner's server.	
responseCodes	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
fallbackActionResponseCodeBased	enum	Specifies the fallback action.	responseDelayBased is true 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.	
returnErrorResponseCodeBased	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.	
specifyYourOwnResponseCodeBased	string	Defines a custom error response.	returnErrorResponseCodeBased is SPECIFY_YOUR_OWN

## adaptiveAcceleration

- **Property Manager name:** [Adaptive Acceleration](#) 
- **Behavior version:** The v2021-09-22 rule format supports the adaptiveAcceleration behavior v2.1.
- **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	Requires
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.	
abLogic	enum	Specifies whether to use Adaptive Acceleration in an A/B testing environment. To include Adaptive Acceleration data in your A/B testing, specify the mode you want to apply. Otherwise, <code>DISABLED</code> by default. See <a href="#">Add A/B testing to A2</a> for details.	
	DISABLED	Disables the use of Adaptive Acceleration in the A/B testing environment. This is the default value.	
	CLOUDLETS	Applies A/B testing using Cloudlets.	
	MANUAL	Applies A/B testing by redirecting a request to one of two origin servers, based on the cookie included with the request.	
cookieName	string	This specifies the name of the cookie file used for redirecting the requests in the A/B testing environment.	<code>abLogic</code> is <code>MANUAL</code>
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.	
enableBrotliCompression	boolean	Applies Brotli compression, converting your origin content to cache on edge servers.	
enableForNoncacheable	boolean	Applies Brotli compression to non-cacheable content.	<code>enableBrotliCompression</code> is <code>true</code>

## adaptiveImageCompression

- **Property Manager name:** [Adaptive Image Compression](#)
- **Behavior version:** The v2021-09-22 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	<a href="#">Requires</a>
<code>compressMobile</code>	boolean	Adapts images served over cellular mobile networks.	
<code>tier1MobileCompressionMethod</code>	enum	Specifies tier-1 behavior.	<code>compressMobile</code> is <code>true</code>
		<b>Supported values:</b> <code>BYPASS</code>	
<code>tier1MobileCompressionValue</code>	number (0-100)	Specifies the compression percentage.	<code>tier1MobileCompressionMethod</code> is <code>COMPRESS</code>
<code>tier2MobileCompressionMethod</code>	enum	Specifies tier-2 cellular-network behavior.	<code>compressMobile</code> is <code>true</code>
		<b>Supported values:</b> <code>BYPASS</code>	
<code>tier2MobileCompressionValue</code>	number (0-100)	Specifies the compression percentage.	<code>tier2MobileCompressionMethod</code> is <code>COMPRESS</code>
<code>tier3MobileCompressionMethod</code>	enum	Specifies tier-5 cellular-network behavior.	<code>compressMobile</code> is <code>true</code>
		<b>Supported values:</b> <code>BYPASS</code>	
<code>tier3MobileCompressionValue</code>	number (0-100)	Specifies the compression percentage.	<code>tier3MobileCompressionMethod</code> is <code>COMPRESS</code>
<code>compressStandard</code>	boolean	Adapts images served over non-cellular networks.	
<code>tier1StandardCompressionMethod</code>	enum	Specifies tier-1 non-cellular network behavior.	<code>compressStandard</code> is <code>true</code>
		<b>Supported values:</b> <code>BYPASS</code>	

Option	Type	Description	Requires
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> BYPASS	
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> BYPASS	
tier3StandardCompressionValue	number (0-100)	Specifies the compression percentage.	tier3StandardCompressionMethod is COMPRESS

## advanced

- **Property Manager name:** [Advanced](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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 v2021-09-22 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 v2021-09-22 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 Hostname	string	Specifies the hostname to match on as a Perl-compatible regular expression.																
replacement 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_ 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.																
tags Attribute	enum	Specifies the tag or tag/attribute combination to operate on.	scope is not PAGE															
		<div><b>Supported values:</b><table><tr><td>A</td><td>BASE_HREF</td><td>IMG</td></tr><tr><td>AREA</td><td>FORM</td><td>IMG_SRC</td></tr><tr><td>AREA_HREF</td><td>FORM_ACTION</td><td>LINK</td></tr><tr><td>A_HREF</td><td>IFRAME</td><td>LINK_HREF</td></tr><tr><td>BASE</td><td>IFRAME_SRC</td><td>SCRIPT</td></tr></table></div>	A	BASE_HREF	IMG	AREA	FORM	IMG_SRC	AREA_HREF	FORM_ACTION	LINK	A_HREF	IFRAME	LINK_HREF	BASE	IFRAME_SRC	SCRIPT	
A	BASE_HREF	IMG																
AREA	FORM	IMG_SRC																
AREA_HREF	FORM_ACTION	LINK																
A_HREF	IFRAME	LINK_HREF																
BASE	IFRAME_SRC	SCRIPT																
replaceAll	boolean	Replaces all matches when enabled, otherwise replaces only the first match.																
includeTags Attribute	boolean	Whether to include the <code>tagsAttribute</code> value.																

## allHttpInCacheHierarchy

- **Property Manager name:** [Allow All Methods on Parent Servers](#) 
- **Behavior version:** The `v2021-09-22` 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](#) , [SureRoute](#) , and Tiered Distribution. (See the [siteShield](#), [sureRoute](#), and [tieredDistribution](#) behaviors.)

Option	Type	Description
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Option	Type	Description
enabled	boolean	Enables all HTTP requests for parent servers in the cache hierarchy.

## allowCloudletsOrigins

- **Property Manager name:** [Allow Conditional Origins](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 rule format supports the allowCloudletsOrigins behavior v1.4.
- **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 [cloudlets Origin](#) criteria within sub-rules to override the prevailing origin.

Option	Type	Description
enabled	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.
honor Base Directory	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.
purge Origin Query Parameter	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 v2021-09-22 rule format supports the allowDelete behavior v1.4.
- **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](#) 
- **Behavior version:** The v2021-09-22 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 \(HTTPS Downgrade to Origin\)](#) 
- **Behavior version:** The v2021-09-22 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 v2021-09-22 rule format supports the `allowOptions` behavior v1.1.
- **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 `constructResponse` behavior to send responses directly from the Akamai network. See also the `allowDelete`, `allowPatch`, `allowPost`, and `allowPut` behaviors.

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

## allowPatch

- **Property Manager name:** [Allow PATCH](#) 
- **Behavior version:** The v2021-09-22 rule format supports the `allowPatch` behavior v1.2.
- **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
<code>enabled</code>	boolean	Allows PATCH requests. Content does <i>not</i> cache.

## allowPost

- **Property Manager name:** [Allow POST](#) 
- **Behavior version:** The v2021-09-22 rule format supports the `allowPost` behavior v1.3.
- **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](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` rule format supports the `allowPut` behavior v1.2.
- **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](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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
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Option	Type	Description
enabled	boolean	Allows Chunked Transfer Encoding requests.

## apiPrioritization

- **Property Manager name:** [API Prioritization Cloudlet](#)<sup>↗</sup>
- **Behavior version:** The v2021-09-22 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>
enabled	boolean	Activates the API Prioritization feature.	
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 API Prioritization policy from any others in the same property.	
useThrottledCpCode	boolean	Specifies whether to apply an alternative CP code for requests served the alternate response.	
throttledCpCode	object	Specifies the CP code as an object.	<code>useThrottledCpCode is true</code>
throttledCpCode.description	string	Additional description for the CP code.	
throttledCpCode.id	integer	Unique identifier for each CP code.	
throttledCpCode.name	string	The name of the CP code.	
throttledCpCode.products	array	The set of products the CP code is assigned to.	
useThrottledStatusCode	boolean	Allows you to assign a specific HTTP response code to a throttled request.	
throttledStatusCode	number	Specifies the HTTP response code for requests that receive the alternate response.	<code>useThrottledStatusCode is true</code>
netStorage	object	Specify the NetStorage domain that contains the alternate response.	
netStorage.cpCodeList	array	A set of CP codes that apply to this storage group.	

Option	Type	Description	<a href="#">Requires</a>
netStorage.downloadDomainName	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.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 v2021-09-22 rule format supports the applicationLoadBalancer behavior v1.10.
- **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	<a href="#">Requires</a>
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.	

Option	Type	Description	Requires
	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
stickinessDuration	string (duration)	Sets how long it is before the cookie expires.	stickinessCookieType is DURATION
stickinessRefresh	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
originCookieName	string	Specifies the name for your session cookie.	stickinessCookieType is ORIGIN_SESSION
specifyStickinessCookieDomain	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
stickinessCookieDomain	string	Specifies the domain to track the stickiness cookie.	specifyStickinessCookieDomain is true
stickinessCookieAutomaticSalt	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
stickinessCookieSalt	string	Specifies the stickiness cookie's salt value. Use this option to share the cookie across many properties.	stickinessCookieAutomaticSalt is false
stickinessCookieSetHttpOnlyFlag	boolean	Ensures the cookie is transmitted only over HTTP.	stickinessCookieType is either: ON_BROWSER_CLOSE, FIXED_DATE, DURATION, NEVER, ORIGIN_SESSION
allDownNetStorage	object	Specifies a NetStorage account for a static maintenance page as a fallback when no origins are available.	
allDownNetStorage.cpCodeList	array	A set of CP codes that apply to this storage group.	
allDownNetStorage.downloadDomainName	string	Domain name from which content can be downloaded.	
allDownNetStorage.id	number	Unique identifier for the storage group.	
allDownNetStorage.name	string	Name of the storage group.	
allDownNetStorage.uploadDomainName	string	Domain name used to upload content.	



Option	Type	Description	Requires
allDownNetStorageFile	string	Specifies the fallback maintenance page's filename, expressed as a full path from the root of the NetStorage server.	
allDownStatusCode	string	Specifies the HTTP response code when all load-balancing origins are unavailable.	
failoverStatusCodes	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.	
	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.	
failoverOriginMap	object array	Specifies a fixed set of failover mapping rules.	failoverMode is MANUAL
failoverOriginMap[].fromOriginId	string	Specifies the origin whose failure triggers the mapping rule.	
failoverOriginMap[].toOriginIds	string array	Requests stuck to the fromOriginId origin retry for each alternate origin toOriginIds , until one succeeds.	
failoverAttemptsThreshold	number	Sets the number of failed requests that would trigger the failover process.	failoverMode is either: MANUAL , AUTOMATIC
allowCachePrefresh	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 v2021-09-22 rule format supports the audienceSegmentation behavior v3.0.
- **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.	

Option	Type	Description	Requires
isShared Policy	boolean	Whether you want to use a shared policy for a Cloudlet. Learn more about shared policies and how to create them in <a href="#">Cloudlets Policy Manager</a> .	
cloudlet Policy	object	Identifies the Cloudlet policy.	isSharedPolicy is false
cloudlet Policy.id	number	Identifies the Cloudlet.	
cloudlet Policy.name	string	The Cloudlet's descriptive name.	
cloudlet Shared Policy	string	This identifies the Cloudlet shared policy to use with this behavior. You can list available shared policies with the <a href="#">Cloudlets API</a> .	isSharedPolicy is true
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> IN_COOKIE_HEADER	
segment Tracking Query Param	string	This query parameter specifies the name of the segmentation rule.	segment TrackingMethod is IN_QUERY_PARAM
segment Tracking Cookie Name	string	This cookie name specifies the name of the segmentation rule.	segment TrackingMethod is IN_COOKIE_HEADER
segment Tracking Custom Header	string	This custom HTTP header specifies the name of the segmentation rule.	segment TrackingMethod is IN_CUSTOM_HEADER
population CookieType	enum	Specifies when the segmentation cookie expires.	
	NEVER	Never expire.	
	ON_BROWSER_CLOSE	Expire at end of browser session.	
	DURATION	Specify a delay.	
population Duration	string (duration)	Specifies the lifetime of the segmentation cookie.	population CookieType is DURATION
population Refresh	boolean	If disabled, sets the expiration time only if the cookie is not yet present in the request.	population CookieType is DURATION
specify Population Cookie Domain	boolean	Whether to specify a cookie domain with the population cookie. It tells the browser to which domain to send the cookie.	
population Cookie Domain	string	Specifies the domain to track the population cookie.	specify PopulationCookieDomain is true

Option	Type	Description	Requires
population Cookie Automatic Salt	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.	
population CookieSalt	string	Specifies the cookie's salt value. Use this option to share the cookie across many properties.	population CookieAutomatic Salt is false
population Cookie IncludeRule Name	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](#) <sup>+</sup>
- **Behavior version:** The `v2021-09-22` 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](#) <sup>↗</sup> to request a certificate for a hostname. To provision certificates programmatically, see the [Certificate Provisioning System API](#) <sup>↗</sup>.

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](#) <sup>+</sup>
- **Behavior version:** The `v2021-09-22` 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
value	string (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 /parent/child/ .

## bossBeaconing

- **Property Manager name:** [Diagnostic data beacons \(Ex. BOSS\)](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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
enabled	boolean	Enable diagnostic data beacons.
cpcodes	string	The space-separated list of CP codes that trigger the beacons. You need to specify the same set of CP codes within BOSS.
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.

Option	Type	Description
	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> <div>0xx      302      304      3xx      401      403      404</div>
conditional ErrorPattern	string	A space-separated set of error patterns that trigger beacons to conditional feeds. Each pattern can include wildcards, such as <code>*CONNECT* *DENIED*</code> .

## breadcrumbs

- **Property Manager name:** [Breadcrumbs](#)
- **Behavior version:** The `v2021-09-22` rule format supports the `breadcrumbs` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Provides per-HTTP transaction visibility into a request for content, regardless of how deep the request goes into the Akamai platform. The `X-Breadcrumbs` response header includes various data, such as network health and the location in the Akamai network used to serve content, which simplifies log review for troubleshooting.

Option	Type	Description
enabled	boolean	Enables the Breadcrumbs feature.
opt Mode	boolean	Specifies whether to include Breadcrumbs data in the response header. To bypass the current <code>optMode</code> , append the opposite <code>ak-bc</code> query string to each request from your player.


## breakConnection

- **Property Manager name:** [Break Forward Connection](#)
- **Behavior version:** The `v2021-09-22` 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 [fail Action](#) policy.

Option	Type	Description
enabled	boolean	Enables the break connection behavior.


## brotli

- **Property Manager name:** [Brotli Support](#) 
- **Behavior version:** The v2021-09-22 rule format supports the `brotli` 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 v2021-09-22 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.
ttl	string (duration)	Overrides the default caching duration of <code>10s</code> . Note that if set to <code>0</code> , it is equivalent to <code>no-cache</code> , which forces revalidation and may cause a traffic spike. This can be counterproductive when, for example, the origin is producing an error code of <code>500</code> .
preserve Stale	boolean	When enabled, the edge server preserves stale cached objects when the origin returns <code>400</code> , <code>500</code> , <code>502</code> , <code>503</code> , and <code>504</code> error codes. This avoids re-fetching and re-caching content after transient errors.

# cacheld

- **Property Manager name:** [Cache ID Modification](#)
- **Behavior version:** The v2021-09-22 rule format supports the cacheld behavior v1.3.
- **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 cacheld behaviors within the same rule results in a system of forming cache keys that applies independently to the rule's content. If any cacheld 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 cacheld 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	Requires
rule	enum	Specifies how to modify the cache ID.	
	INCLUDE_QUERY_PARAMS	Includes the specified set of query parameters when forming a cache ID.	
	INCLUDE_COOKIES	Includes specified cookies in the cache ID.	
	INCLUDE_HEADERS	Includes specified HTTP headers in the cache ID.	
	EXCLUDE_QUERY_PARAMS	Excludes the specified set of query parameters when forming a cache ID.	
	INCLUDE_ALL_QUERY_PARAMS	Includes all query parameters when forming a cache ID.	
	INCLUDE_VARIABLE	Includes a specific <a href="#">user variable</a> in the cache ID.	
	INCLUDE_URL	Includes the full URL, the same as the default without the cacheld behavior.	
include Value	boolean	Includes the value of the specified elements in the cache ID. Otherwise only their names are included.	rule is either: INCLUDE_COOKIES , INCLUDE_QUERY_PARAMS , INCLUDE_HEADERS
optional	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.	rule is either: INCLUDE_COOKIES , INCLUDE_QUERY_PARAMS , INCLUDE_HEADERS , EXCLUDE_QUERY_PARAMS
elements	string array	Specifies the names of the query parameters, cookies, or headers to include or exclude from the cache ID.	rule is either: INCLUDE_COOKIES , INCLUDE_QUERY_PARAMS , INCLUDE_HEADERS , EXCLUDE_QUERY_PARAMS
variable Name	string ( <a href="#">variable name</a> )	Specifies the name of the variable you want to include in the cache key.	rule is INCLUDE_VARIABLE

## cacheKeyIgnoreCase

- **Property Manager name:** [Ignore Case In Cache Key](#)<sup>↗</sup>
- **Behavior version:** The v2021-09-22 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](#)<sup>↗</sup> 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
<code>enabled</code>	boolean	Ignores case when forming cache keys.

## cacheKeyQueryParams

- **Property Manager name:** [Cache Key Query Parameters](#)<sup>↗</sup>
- **Behavior version:** The v2021-09-22 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>
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Option	Type	Description	Requires
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_ ALL_ PRESERVE_ ORDER	Forms a separate key for the entire set of query parameters, but sensitive to the order in which they appear. (For example, ?q=akamai&state=ma and ?state=ma&q=akamai cache separately.)	
	INCLUDE_ ALL_ ALPHABETIZE_ 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 parameters field.	
	IGNORE	Include all but the sequence of values in the parameters field.	
parameters	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
exactMatch	boolean	When enabled, parameters 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 v2021-09-22 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
purgeKey	string	Specifies the new cache key path as an alphanumeric value.

## cachePost

- **Property Manager name:** [Cache POST Responses](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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
enabled	boolean	Enables caching of POST responses.
use Body	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.
	QUERY	Adds the raw request body as a query parameter to the cache key, but only if the POST request's Content-Type is application/x-www-form-urlencoded . (Use this in conjunction with <a href="#">cacheld</a> to define relevant query parameters.)

## cacheRedirect

- **Property Manager name:** [Cache HTTP Redirects](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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
enabled	boolean	Enables the redirect caching behavior.

## cacheTag

- **Property Manager name:** [Cache Tag](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 rule format supports the cacheTag behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This adds a cache tag to the requested object. With cache tags, you can flexibly fast purge tagged segments of your cached content. You can either define these tags with an `Edge-Cache-Tag` header at the origin server level, or use this behavior to directly add a cache tag to the object as the edge server caches it. The `cacheTag` behavior can only take a single value, including a variable. If you want to specify more tags for an object, add a few instances of this behavior to your configuration.

See [Fast Purge](#) for guidance on best practices to deploy cache tags. Use the [Fast Purge API](#) to purge by cache tag programmatically.

Option	Type	Description
tag	string (allows <a href="#">variables</a> )	Specifies the cache tag you want to add to your cached content. A cache tag is only added when the object is first added to cache. A single cache tag can't exceed 128 characters and can only include alphanumeric characters, plus this class of characters: <code>[!#\$%'+./^_` ~]</code>

## cacheTagVisible

- **Property Manager name:** Cache Tag Visibility
- **Behavior version:** The `v2021-09-22` rule format supports the `cacheTagVisible` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Cache tags are comma-separated string values you define within an `Edge-Cache-Tag` header. You can use them to flexibly fast purge tagged segments of your cached content. You can either define these headers at the origin server level, or use the [modifyOutgoingResponseHeader](#) behavior to configure them at the edge. Apply this behavior to confirm you're deploying the intended set of cache tags to your content.

See [Fast Purge](#) for guidance on best practices to deploy cache tags. Use the [Fast Purge API](#) to purge by cache tag programmatically.

Option	Type	Description
behavior	enum	Specifies when to include the <code>Edge-Cache-Tag</code> in responses.
	NEVER	Strip out the <code>Edge-Cache-Tag</code> header, edge servers' default response.
	PRAGMA_HEADER	Edge servers respond with the <code>Edge-Cache-Tag</code> header only when you pass in a <code>Pragma: akamai-x-get-cache-tags</code> header as part of the request.
	ALWAYS	Include the <code>Edge-Cache-Tag</code> header in all responses.

## caching

- **Property Manager name:** [Caching](#)
- **Behavior version:** The v2021-09-22 rule format supports the caching behavior v1.12.
- **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	Requires
behavior	enum	Specify the caching option.	
	MAX_AGE	Honor the origin's MAX_AGE header.	
	NO_STORE	Clears the cache and serves from the origin.	
	BYPASS_CACHE	Retains the cache but serves from the origin.	
	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
enhanced Rfc Support	boolean	This enables honoring particular Cache-Control header directives from the origin. Supports all official <a href="#">RFC 7234</a> directives except for no-transform .	behavior is either: CACHE_CONTROL , CACHE_CONTROL_AND_EXPIRES
honorNo Store	boolean	Instructs edge servers not to cache the response when the origin response includes the no-store directive.	enhancedRfc Support is true
honor Private	boolean	Instructs edge servers not to cache the response when the origin response includes the private directive.	behavior is either: CACHE_CONTROL , CACHE_CONTROL_AND_EXPIRES

Option	Type	Description	<a href="#">Requires</a>
honorNoCache	boolean	With the <code>no-cache</code> directive present in the response, this instructs edge servers to validate or refetch the response for each request. Effectively, set the time to live <code>ttl</code> to zero seconds.	enhancedRfcSupport is true
honorMaxAge	boolean	This instructs edge servers to cache the object for a length of time set by the <code>max-age</code> directive in the response. When present in the origin response, this directive takes precedence over the <code>max-age</code> directive and the <code>defaultTtl</code> setting.	enhancedRfcSupport is true
honorSMMaxage	boolean	Instructs edge servers to cache the object for a length of time set by the <code>s-maxage</code> directive in the response. When present in the origin response, this directive takes precedence over the <code>max-age</code> directive and the <code>defaultTtl</code> setting.	enhancedRfcSupport is true
honorMustRevalidate	boolean	This instructs edge servers to successfully revalidate with the origin server before using stale objects in the cache to satisfy new requests.	behavior is either: <code>CACHE_CONTROL</code> , <code>CACHE_CONTROL_AND_EXPIRES</code>
honorProxyRevalidate	boolean	With the <code>proxy-revalidate</code> directive present in the response, this instructs edge servers to successfully revalidate with the origin server before using stale objects in the cache to satisfy new requests.	enhancedRfcSupport is true

## centralAuthorization

- **Property Manager name:** [Centralized Authorization](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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](#) <sup>↗</sup>

- **Behavior version:** The `v2021-09-22` 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
<code>enabled</code>	boolean	Allows edge servers to chase redirects.
<code>limit</code>	string	Specifies, as a string, the maximum number of redirects to follow.
<code>serve404</code>	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 `v2021-09-22` 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 *contentCharacteristics*.

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

Option	Type	Description
	JAPAN	Japan.
	TAIWAN	Taiwan.
	UNITED_KINGDOM	United Kingdom.
	OTHER	A fallback value.
	UNKNOWN	Defer any optimizations.


## cloudInterconnects


- **Property Manager name:** [Cloud Interconnects for Google Cloud \(GCP\)](#) 
- **Behavior version:** The v2021-09-22 rule format supports the cloudInterconnects behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Cloud Interconnects forwards traffic from edge servers to your cloud origin through Private Network Interconnects (PNIs), helping to reduce the egress costs at the origin. Supports origins hosted by Google Cloud Provider (GCP).

Option	Type	Description
enabled	boolean	Channels the traffic to maximize the egress discount at the origin.
cloud Locations	string array	Specifies the geographical locations of your cloud origin. You should enable Cloud Interconnects only if your origin is in one of these locations, since GCP doesn't provide a discount for egress traffic for any other regions.
	AS	Asia.
	EU	Europe.
	NA	North America.

## cloudWrapper

- **Property Manager name:** [Cloud Wrapper](#) 
- **Behavior version:** The v2021-09-22 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 [tieredDistribution](#) .

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.

## cloudWrapperAdvanced

- **Property Manager name:** [Cloud Wrapper Advanced](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 rule format supports the `cloudWrapperAdvanced` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

Your account representative uses this behavior to implement a customized failover configuration on your behalf. Use Cloud Wrapper Advanced with an enabled [cloudWrapper](#) behavior in the same rule.

Option	Type	Description	<a href="#">Requires</a>
enabled	boolean	Enables failover for Cloud Wrapper.	
failover Map	string	Specifies the failover map to handle Cloud Wrapper failures. Contact your account representative for more information.	
custom Failover Map	string (allows <a href="#">variables</a> )	Specifies the custom failover map to handle Cloud Wrapper failures. Contact your account representative for more information.	failover Map is Custom

## constructResponse

- **Property Manager name:** [Construct Response](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 rule format supports the `constructResponse` behavior v1.3.
- **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
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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.
response Code	enum	The HTTP response code to send to the end-user client.
		<b>Supported values:</b> 200      401      403      404      405      417
forceEviction	boolean	Removes the underlying object from the cache, since it is not being served.
ignorePurge	boolean	Whether to ignore the custom response when purging.

## contentCharacteristics

- **Property Manager name:** [Content Characteristics](#) <sup>+</sup>
- **Behavior version:** The v2021-09-22 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.

Option	Type	Description
	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.
	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 v2021-09-22 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.	

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

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.	
	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.	
	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.	

Option	Type	Description	<a href="#">Requires</a>
	UNKNOWN	Defer this optimization.	
	OTHER	Sizes that straddle these ranges.	
smooth	boolean	Enable delivery of Smooth media.	
segmentDuration Smooth	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.	
segmentDuration SmoothCustom	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
	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 v2021-09-22 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.
popularity Distribution	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.
	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 v2021-09-22 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
<code>objectSize</code>	enum	Optimize based on the size of the object retrieved from the origin.
	<code>LESS_THAN_1MB</code>	Less than 1Mb.
	<code>ONE_MB_TO_TEN_MB</code>	1-10Mb.
	<code>TEN_MB_TO_100_MB</code>	10-100Mb.
	<code>GREATER_THAN_100MB</code>	More than 100Mb.
	<code>UNKNOWN</code>	Defer this optimization.
<code>popularityDistribution</code>	enum	Optimize based on the content's expected popularity.
	<code>LONG_TAIL</code>	A low volume of requests over a long period.
	<code>ALL_POPULAR</code>	A high volume of requests over a short period.
	<code>UNKNOWN</code>	Defer this optimization.
<code>catalogSize</code>	enum	Optimize based on the total size of the content library delivered.
	<code>SMALL</code>	Less than 100Gb.
	<code>MEDIUM</code>	100Gb-1Tb.
	<code>LARGE</code>	1-100Tb.
	<code>EXTRA_LARGE</code>	More than 100Tb.
	<code>UNKNOWN</code>	Defer this optimization.
<code>contentType</code>	enum	Optimize based on the type of content.
	<code>VIDEO</code>	Video.
	<code>SOFTWARE</code>	Software.
	<code>SOFTWARE_PATCH</code>	Software patch.
	<code>GAME</code>	Game.
	<code>GAME_PATCH</code>	Game patch.
	<code>OTHER_DOWNLOADS</code>	Other downloads that don't fall into these categories.
	<code>UNKNOWN</code>	Defer this optimization.

# contentCharacteristicsWsdLive

- **Property Manager name:** [Content Characteristics - Streaming Video Live](#)
- **Behavior version:** The v2021-09-22 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	Requires
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.	
popularity Distribution	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.	
segmentDuration HLS	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.	



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

Option	Type	Description	<a href="#">Requires</a>
	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.	
segmentDuration Smooth	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.	
segmentSize Smooth	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 `v2021-09-22` 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>
<code>catalogSize</code>	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.	
<code>contentType</code>	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.	
<code>popularity Distribution</code>	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.	
<code>hls</code>	boolean	Enable delivery of HLS media.	
<code>segmentDuration HLS</code>	enum	Specifies the duration of individual segments.	<code>hls is true</code>
	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.	

Option	Type	Description	<a href="#">Requires</a>
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.	
segmentDuration HDS	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.	
	OTHER	Sizes straddle these ranges.	
dash	boolean	Enable delivery of DASH media.	
segmentDuration DASH	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.	

Option	Type	Description	Requires
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.	
segmentDuration Smooth	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.	
segmentSize Smooth	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 straddle these ranges.	

## contentTargetingProtection

- **Property Manager name:** [Content Targeting - Protection](#)
- **Behavior version:** The v2021-09-22 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
enabled	boolean	Enables the Content Targeting feature.	
enableGeoProtection	boolean	When enabled, verifies IP addresses are unique to specific geographic regions.	
geoProtectionMode	enum	Specifies how to handle requests.	enableGeoProtection is true
	ALLOW	Allow requests.	
	DENY	Deny requests.	
countries	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.	enableGeoProtection is true
regions	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.	enableGeoProtection is true
dmars	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.	enableGeoProtection is true
overrideIPAddresses	string array	Specify a set of IP addresses or CIDR blocks that exceptions to the set of included or excluded areas.	enableGeoProtection is true
enableGeoRedirectOnDeny	boolean	When enabled, redirects denied requests rather than responding with an error code.	enableGeoProtection is true
geoRedirectUrl	string	This specifies the full URL to the redirect page for denied requests.	enableGeoRedirectOnDeny is true
enableIPProtection	boolean	Allows you to control access to your content from specific sets of IP addresses and CIDR blocks.	
ipProtectionMode	enum	Specifies how to handle requests.	enableIPProtection is true
	ALLOW	Allow requests.	
	DENY	Deny requests.	
ipAddresses	string array	Specify a set of IP addresses or CIDR blocks to allow or deny.	enableIPProtection is true
enableIPRedirectOnDeny	boolean	When enabled, redirects denied requests rather than responding with an error code.	enableIPProtection is true
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.	

Option	Type	Description	Requires
referrer Domains	string array	Specifies the set of domains from which to allow or deny traffic.	enableReferrer Protection is true
enable Referrer RedirectOn Deny	boolean	When enabled, redirects denied requests rather than responding with an error code.	enableReferrer Protection is true
referrer RedirectUrl	string	This specifies the full URL to the redirect page for denied requests.	enableReferrer RedirectOnDeny is true

## corsSupport

- **Property Manager name:** [CORS Protocol Support](#)
- **Behavior version:** The v2021-09-22 rule format supports the corsSupport behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Cross-origin resource sharing (CORS) allows web pages in one domain to access restricted resources from your domain. Specify external origin hostnames, methods, and headers that you want to accept via HTTP response headers. Full support of CORS requires allowing requests that use the OPTIONS method. See [allowOptions](#).

Option	Type	Description	Requires
enabled	boolean	Enables CORS feature.	
allow Origins	enum	In responses to preflight requests, sets which origin hostnames to accept requests from.	
	ANY	Accept from any origin hostname.	
	SPECIFIED	Accept from a set of origin hostnames.	
origins	string array	Defines the origin hostnames to accept requests from. The hostnames that you enter need to start with http or https . For detailed hostname syntax requirements, refer to RFC-952 and RFC-1123 specifications.	allow Origins is SPECIFIED
allow Credentials	boolean	Accepts requests made using credentials, like cookies or TLS client certificates.	
allow Headers	enum	In responses to preflight requests, defines which headers to allow when making the actual request.	
	ANY	Allow any headers.	
	SPECIFIED	Allow a specific set of headers.	
headers	string array	Defines the supported request headers.	allow Headers is SPECIFIED
methods	string array	Specifies any combination of the following methods: DELETE , GET , PATCH , POST , and PUT that are allowed when accessing the resource from an external domain.	

Option	Type	Description	<a href="#">Requires</a>
expose Headers	string array (allows <a href="#">variables</a> )	In responses to preflight requests, lists names of headers that clients can access. By default, clients can access the following simple response headers: Cache-Control , Content-Language , Content-Type , Expires , Last-Modified , and Pragma . You can add other header names to make them accessible to clients.	
preflight MaxAge	string (duration)	Defines the number of seconds that the browser should cache the response to a preflight request.	

## cpCode

- **Property Manager name:** [Content Provider Code](#)<sup>¶</sup>
- **Behavior version:** The v2021-09-22 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](#)<sup>¶</sup>
- **Behavior version:** The v2021-09-22 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
<code>behaviorId</code>	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 `v2021-09-22` rule format supports the `datastream` behavior v1.5.
- **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	Requires
<code>streamType</code>	enum	Specify the DataStream type.	
	BEACON	Low latency streaming of raw or aggregated data for push delivery or through the pull API.	
	LOG	Scalable, low latency streaming of raw data for push delivery.	
	BEACON_AND_LOG	Specify both.	
<code>enabled</code>	boolean	Enables DataStream reporting.	
<code>datastreamIds</code>	string	A set of dash-separated DataStream ID values to limit the scope of reported data. By default, all active streams report. Use the DataStream application to gather stream ID values that apply to this property configuration. Specifying IDs for any streams that don't apply to this property has no effect, and results in no data reported.	
<code>logEnabled</code>	boolean	Enables log collection for the property by associating it with DataStream configurations.	<code>streamType</code> is either: LOG , BEACON_ AND_LOG
<code>logStreamName</code>	string	Specifies the name of the active stream monitoring the property that you want to receive log data from.	<code>logEnabled</code> is true
<code>samplingPercentage</code>	number	Specifies the percentage of log data you want to collect for this property.	<code>logEnabled</code> is true

## dcp

- **Property Manager name:** [IoT Edge Connect](#)
- **Behavior version:** The v2021-09-22 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.
namespaceId	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 v2021-09-22 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 [dcpAuthSubstringTransformation](#) behaviors.

Option	Type	Description
hashConversion Algorithm	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.

## denyDirectFailoverAccess

**Property Manager name:** [Security Failover Protection](#)

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

This behavior does not include any options. Specifying the behavior itself enables it.

## dcpAuthRegexTransformation

- **Property Manager name:** [Variable Regex Transformation](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 rule format supports the dcpAuthRegexTransformation 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. 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
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Option	Type	Description
regex 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 `v2021-09-22` 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
substring 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.
substring 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](#)
- **Behavior version:** The `v2021-09-22` rule format supports the `dcpAuthVariableExtractor` 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 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 v2021-09-22 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 v2021-09-22 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	Requires
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.	custom Values is true
path	string	Specifies the path to your JWT server's authentication endpoint. This lets you generate JWTs to sign your requests.	custom Values is true

## downloadCompleteMarker

**Property Manager name:** [Download Complete Marker](#)

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 does not include any options. Specifying the behavior itself enables it.

## deliveryReceipt

- **Property Manager name:** [Cloud Monitor Data Delivery](#)<sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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


- **Property Manager name:** [Control Access](#)<sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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 `v2021-09-22` rule format supports the `denyDirectFailoverAccess` behavior v1.1.
- **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.

## downloadNotification


**Property Manager name:** [Download Notification](#)

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 does not include any options. Specifying the behavior itself enables it.

## deviceCharacteristicCached

- **Property Manager name:** [Device Characterization - Define Cached Content](#) 
- **Behavior version:** The `v2021-09-22` rule format supports the `deviceCharacteristicCached` behavior v1.4.
- **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
<code>elements</code>	string array	Specifies a set of information about the device with which to generate a separate cache key.



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

## deviceCharacteristicHeader

- **Property Manager name:** [Device Characterization - Forward in Header<sup>↗</sup>](#)
- **Behavior version:** The v2021-09-22 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 [deviceCharacteristicCached](#) behavior.

Option	Type	Description
elements	string array	Specifies the set of information about the requesting device to send to the origin server.
		<b>Supported values:</b>
		<div> <div> ACCEPT_THIRD_PARTY_COOKIE  AJAX_PREFERRED_GEOLOC_API  AJAX_SUPPORT_JAVASCRIPT  BRAND_NAME  COOKIE_SUPPORT  DEVICE_OS  DEVICE_OS_VERSION  DUAL_ORIENTATION  FLASH_LITE_VERSION  FULL_FLASH_SUPPORT  GIF_ANIMATED  HTML_PREFERRED_DTD  IS_MOBILE  IS_TABLET  IS_WIRELESS_DEVICE  JPG  MARKETING_NAME  MAX_IMAGE_HEIGHT  MAX_IMAGE_WIDTH </div> <div> MOBILE_BROWSER  MOBILE_BROWSER_VERSION  MODEL_NAME  PDF_SUPPORT  PHYSICAL_SCREEN_HEIGHT  PHYSICAL_SCREEN_WIDTH  PNG  PREFERRED_MARKUP  RESOLUTION_HEIGHT  RESOLUTION_WIDTH  VIEWPORT_INITIAL_SCALE  VIEWPORT_WIDTH  XHTMPLP_PREFERRED_MIME_TYPE  XHTML_FILE_UPLOAD  XHTML_PREFERRED_CHARSET  XHTML_SUPPORTS_IFRAME  XHTML_SUPPORTS_TABLE_FOR_LAYOUT  XHTML_SUPPORT_LEVEL  XHTML_TABLE_SUPPORT </div> </div>

## dnsAsyncRefresh

- **Property Manager name:** [DNS Asynchronous Refresh](#)
- **Behavior version:** The v2021-09-22 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 v2021-09-22 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
enabled	boolean	Allows edge servers to refresh DNS records before they expire.
delay	string (duration)	Specifies the amount of time following a DNS record's expiration to asynchronously prefresh it.
timeout	string (duration)	Specifies the amount of time to prefresh a DNS entry if there have been no requests to the domain name.

## downgradeProtocol

- **Property Manager name:** [Protocol Downgrade](#)
- **Behavior version:** The v2021-09-22 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.

## downloadCompleteMarker

- **Property Manager name:** [Download Complete Marker](#)
- **Behavior version:** The v2021-09-22 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.

## downloadNotification


- **Property Manager name:** [Download Notification](#)
- **Behavior version:** The v2021-09-22 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 `v2021-09-22` 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.	
	<code>ALLOW</code>	The value of <code>allowBehavior</code> chooses the caching method and headers to send to the client.	
	<code>MUST_REVALIDATE</code>	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.	
	<code>BUST</code>	Sends cache-busting headers downstream.	
	<code>TUNNEL_ORIGIN</code>	This passes <code>Cache-Control</code> and <code>Expires</code> headers from the origin to the downstream client.	
	<code>NONE</code>	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 <code>ALLOW</code>
	<code>LESSER</code>	Sends the lesser value of what the origin specifies and the edge cache's remaining duration. This is the default behavior.	
	<code>GREATER</code>	Sends the greater value of what the origin specifies and the edge cache's remaining duration.	
	<code>REMAINING_LIFETIME</code>	Sends the value of the edge cache's remaining duration, without comparing it to the origin's headers.	
	<code>FROM_MAX_AGE</code>	Sends the <code>cache:max-age</code> value applied to the object, without evaluating the cache's duration.	
	<code>FROM_VALUE</code>	Sends the value of the edge cache's duration.	
	<code>PASS_ORIGIN</code>	Sends the value of the origin's header, without evaluating the edge cache's duration.	
<code>ttl</code>	string (duration)	Sets the duration of the cache. Setting the value to <code>0</code> equates to a <code>no-cache</code> header that forces revalidation.	<code>allowBehavior</code> is <code>FROM_VALUE</code>

Option	Type	Description	Requires
send Headers	enum	Specifies the HTTP headers to include in the response to the client.	behavior is ALLOW
	CACHE_ CONTROL_ AND_ EXPIRES	Sends both Cache-Control and Expires header.	
	CACHE_ CONTROL	Sends only the origin's Cache-Control header.	
	EXPIRES	Sends only the origin's Expires header.	
	PASS_ ORIGIN	Sends the same set of Cache-Control and Expires headers received from the origin.	
send Private	boolean	Adds a Cache-Control: private header to prevent objects from being cached in a shared caching proxy.	behavior is either: ALLOW , MUST_ REVALIDATE AND send Headers is not EXPIRES

## dynamicThroughputOptimization

- **Property Manager name:** [Quick Retry](#) <sup>⚠</sup>
- **Behavior version:** The v2021-09-22 rule format supports the dynamicThroughputOptimization behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables *quick retry*, which detects slow forward throughput while fetching an object, and attempts a different forward connection path to avoid congestion. By default, connections under 5 mbps trigger this behavior. Contact Akamai Professional Services to override this threshold.

Option	Type	Description
enabled	boolean	Enables the quick retry feature.

## dynamicWebContent

- **Property Manager name:** [Content Characteristics - Dynamic Web Content](#) <sup>⚠</sup>
- **Behavior version:** The v2021-09-22 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 <a href="#">sureRoute</a> behavior for more information.
<code>prefetch</code>	boolean	Allows subcustomer content to prefetch over HTTP/2.
<code>realUserMonitoring</code>	boolean	Allows Real User Monitoring (RUM) to collect performance data for subcustomer content. See the <a href="#">realUserMonitoring</a> behavior for more information.
<code>imageCompression</code>	boolean	Enables image compression for subcustomer content.

## ecmsBulkUpload

- **Property Manager name:** [Message Store bulk upload](#)
- **Behavior version:** The `v2021-09-22` rule format supports the `ecmsBulkUpload` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Uploads a ZIP archive with objects to an existing data set. The target data set stores objects as key-value pairs. The path to an object in the ZIP archive is a key, and the content of an object is a value. For an overview, see [ecmsDatabase](#).

Option	Type	Description
<code>enabled</code>	boolean	Enables sending a compressed archive file with objects. Sends the archive file to the default path of the target data set: <code>&lt;hostname&gt;/bulk/&lt;database_name&gt;/&lt;dataset_name&gt;</code> .

## ecmsDatabase

- **Property Manager name:** [Message Store database selection](#)
- **Behavior version:** The `v2021-09-22` rule format supports the `ecmsDatabase` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Edge Connect Message Store is available for [Internet of Things: Edge Connect](#) users. It lets you create databases and data sets within these databases. You can use this object store to save files smaller than 2 GB. `ecmsDatabase` specifies a default database for requests to this property,

unless indicated otherwise in the URL. To access objects in the default database, you can skip its name in the URLs. To access objects in a different database, pass its name in the header, query parameter, or a regular expression matching a URL segment. You can also configure the [ecmsDataset](#) behavior to specify a default data set for requests.

Option	Type	Description	Requires
database	string	Specifies a default database for this property. If you don't configure a default data set in the <a href="#">ecmsDataset</a> behavior, requests to objects in this database follow the pattern: <code>&lt;hostname&gt;/datastore/&lt;data_set_name&gt;/&lt;object_key&gt; .</code>	
extract Location	enum	Specifies where to pass a database name in requests. If the specified location doesn't include the database name or the name doesn't match the regular expression, the default database is used.	
	CLIENT_REQUEST_HEADER	Name is a request header.	
	QUERY_STRING	Name is a query parameter.	
	REGEX	Name matches the URL.	
header Name	string	Specifies the request header that passed the database name. By default, it points to <code>X-KV-Database .</code>	extract Location is CLIENT_REQUEST_HEADER
query Parameter Name	string	Specifies the query string parameter that passed the database name. By default, it points to <code>database .</code>	extract Location is QUERY_STRING
regex Pattern	string	Specifies the regular expression that matches the database name in the URL.	extract Location is REGEX

## ecmsDataset

- **Property Manager name:** [Message Store data set selection](#) <sup>+</sup>
- **Behavior version:** The `v2021-09-22` rule format supports the `ecmsDataset` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Specifies a default data set for requests to this property unless indicated otherwise in the URL. To access objects in this data set, you can skip the data set name in the URLs. To access objects in a different data set within a database, pass the data set name in the header, query parameter, or a regular expression pattern matching a URL segment. You can also configure the [ecmsDatabase](#) behavior to specify a default database for requests.

Option	Type	Description	Requires
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Option	Type	Description	Requires
dataset	string	Specifies a default data set for this property. If you don't configure a default database in the <code>ecmsDatabase</code> behavior, requests to objects in this data set follow the pattern: <code>&lt;hostname&gt;/datastore/&lt;database_name&gt;/&lt;object_key&gt;</code> .	
extract Location	enum	Specifies where to pass a data set name in requests. If the specified location doesn't include the data set name or the name doesn't match the regular expression pattern, the default data set is used.	
	CLIENT_REQUEST_HEADER	Name is a request header.	
	QUERY_STRING	Name is a query parameter.	
	REGEX	Name matches the URL.	
header Name	string	Specifies the request header that passed the data set name. By default, it points to <code>X-KV-Dataset</code> .	extract Location is CLIENT_REQUEST_HEADER
query Parameter Name	string	Specifies the query string parameter that passed the data set name. By default, it points to <code>dataset</code> .	extract Location is QUERY_STRING
regex Pattern	string	Specifies the regular expression that matches the data set name in the URL.	extract Location is REGEX

## enhancedAkamaiProtocol

**Property Manager name:** [Enhanced Akamai Protocol](#)

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 does not include any options. Specifying the behavior itself enables it.

## ecmsObjectKey

- **Property Manager name:** [Message Store object key selection](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` rule format supports the `ecmsObjectKey` behavior v1.0.



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

Defines a regular expression to match object keys in custom URLs and to access objects in a data set. You can point custom URLs to access proper values in the target data set. For an overview, see [ecmsDatabase](#) .

Option	Type	Description
regex	string	Enables sending a compressed archive file with objects to the default path of the target data set: <code>&lt;hostname&gt;/bulk/&lt;database_name&gt;/&lt;dataset_name&gt;</code> .

## edgeConnect


- **Property Manager name:** [Cloud Monitor Instrumentation](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` rule format supports the `edgeConnect` behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Configures traffic logs for the Cloud Monitor push API.

Option	Type	Description	<a href="#">Requires</a>
enabled	boolean	Enables Cloud Monitor's log-publishing behavior.	
apiConnector	enum	Describes the API connector type.	
		<b>Supported values:</b> <div>BMC_APM</div>	
apiDataElements	string array	Specifies the data set to log.	
		<b>Supported values:</b> <div>           APM            GEO            HTTP            NETWORK_PERFORMANCE            NETWORK_V1            REQUEST_HEADER            RESPONSE_HEADER            SEC_APP_V2            SEC_RATE_DENY_V2            SEC_RATE_WARN_V2         </div>	
destination Hostname	string	Specifies the target hostname accepting push API requests.	
destinationPath	string	Specifies the push API's endpoint.	
overrideAggregate Settings	boolean	When enabled, overrides default log settings.	
aggregateTime	string (duration)	Specifies how often logs are generated.	<code>overrideAggregateSettings</code> is <code>true</code>
aggregateLines	string	Specifies the maximum number of lines to include in each log.	<code>overrideAggregateSettings</code> is <code>true</code>

Option	Type	Description	Requires
aggregateSize	string	Specifies the log's maximum size.	overrideAggregateSettings is true


## edgeImageConversion

- **Property Manager name:** [Image Converter Settings](#) 
- **Behavior version:** The v2021-09-22 rule format supports the edgeImageConversion behavior v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

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> 400      403      404      409	

## edgeLoadBalancingAdvanced

- **Property Manager name:** [Edge Load Balancing: Advanced Metadata](#) 
- **Behavior version:** The v2021-09-22 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 <code>xml</code> block does.
xml	string	A block of Akamai XML metadata.

## edgeLoadBalancingDataCenter

- **Property Manager name:** [Edge Load Balancing: Data Center](#)✎
- **Behavior version:** The `v2021-09-22` 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	<a href="#">Requires</a>
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 <code>true</code>
failoverRules	object array	Provides up to four failover rules to apply in the specified order.	<code>enableFailover</code> is <code>true</code>
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 <code>true</code>

Option	Type	Description	Requires
failover Rules[.context Root	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 /static/error.html when failing over to an error page.	modify Request is true
failover Rules[.absolute Path	boolean	When enabled, interprets the path specified by context_root as an absolute server path, for example to reference a site-down page. Otherwise when disabled, the path is appended to the request.	modify Request is true

## edgeLoadBalancingOrigin

- **Property Manager name:** [Edge Load Balancing: Origin Definition](#)
- **Behavior version:** The v2021-09-22 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
id	string	Specifies a unique descriptive string for this ELB origin. The value needs to match the origin_id specified by the <a href="#">edgeLoadBalancingDataCenter</a> behavior associated with this origin.	
description	string	Provides a description for the ELB origin, for your own reference.	
hostname	string	Specifies the hostname associated with the ELB rule.	
enable Session Persistence	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.	
cookie Name	string	This specifies the name of the cookie that marks users' persistent sessions. The accompanying <a href="#">edgeLoadBalancingDataCenter</a> behavior's description option specifies the cookie's value.	enable Session Persistence is true

## edgeOriginAuthorization

- **Property Manager name:** [Edge Server Identification](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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>cookie Name</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](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` rule format supports the `edgeRedirector` behavior v4.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior enables the [Edge Redirector Cloudlet](#) <sup>↗</sup> 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](#) <sup>↗</sup>. Otherwise use the [Cloudlets API](#) <sup>↗</sup> to configure it programmatically.

Option	Type	Description	Requires
<code>enabled</code>	boolean	Enables the Edge Redirector Cloudlet.	
<code>isShared Policy</code>	boolean	Whether you want to apply the Cloudlet shared policy to an unlimited number of properties within your account. Learn more about shared policies and how to create them in <a href="#">Cloudlets Policy Manager</a> <sup>↗</sup> .	
<code>cloudlet Policy</code>	object	Specifies the Cloudlet policy as an object.	<code>isShared Policy</code> is false
<code>cloudlet Policy.id</code>	number	Identifies the Cloudlet.	
<code>cloudlet Policy.name</code>	string	The Cloudlet's descriptive name.	

Option	Type	Description	Requires
cloudlet Shared Policy	string	Identifies the Cloudlet shared policy to use with this behavior. Use the <a href="#">Cloudlets API</a> to list available shared policies.	isShared Policy is true

## edgeScape

- **Property Manager name:** [Content Targeting\\_\(EdgeScape\)](#)
- **Behavior version:** The v2021-09-22 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
enabled	boolean	When enabled, sends the X-Akamai-Edgescape request header to the origin.

## edgeSideIncludes

- **Property Manager name:** [ESI \(Edge Side Includes\)](#)
- **Behavior version:** The v2021-09-22 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.	
enable ViaHttp	boolean	Enable ESI only for content featuring the Edge-control: dca=esi HTTP response header.	
passSet Cookie	boolean	Allows edge servers to pass your origin server's cookies to the ESI processor.	enableViaHttp is true
pass ClientIp	boolean	Allows edge servers to pass the client IP header to the ESI processor.	enableViaHttp is true

Option	Type	Description	Requires
i18n Status	boolean	Provides internationalization support for ESI.	enableViaHttp is true
i18n Charset	string array	Specifies the character sets to use when transcoding the ESI language, UTF-8 and ISO-8859-1 for example.	i18nStatus is true
detect Injection	boolean	Denies attempts to inject ESI code.	

## edgeWorker

- **Property Manager name:** [EdgeWorkers](#)
- **Behavior version:** The v2021-09-22 rule format supports the edgeWorker behavior v1.6.
- **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.
edge WorkerId	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.

## enhancedAkamaiProtocol

- **Property Manager name:** [Enhanced Akamai Protocol](#)
- **Behavior version:** The v2021-09-22 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.

# enhancedProxyDetection

- **Property Manager name:** [Enhanced Proxy Detection with GeoGuard](#)<sup>ⓘ</sup>
- **Behavior version:** The v2021-09-22 rule format supports the enhancedProxyDetection behavior v1.1.
- **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, GeoGuard. 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.	
forward Header Enrichment	boolean	Sends the Enhanced Proxy Detection ( Akamai-EPD ) header in the forward request to determine whether the connecting IP address is an anonymous proxy. The header can contain one or more two-letter codes that indicate the IP address type detected by edge servers: <ul style="list-style-type: none"><li>• av for is_anonymous_vpn</li><li>• hp for is_hosting_provider</li><li>• pp for is_public_proxy</li><li>• dp for is_smart_dns_proxy</li><li>• tn for is_tor_exit_node</li><li>• vc for is_vpn_datacentre</li></ul>	
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 Configuration Mode is BEST_PRACTICE
	ALLOW	Allow the request.	
	DENY	Deny the request.	
	REDIRECT	Respond with a redirect.	
bestPractice Redirecturl	string (allows <a href="#">variables</a> )	This specifies the URL to which to redirect requests.	bestPractice Action is REDIRECT



Option	Type	Description	Requires
detectAnonymousVpn	boolean	This enables detection of requests from anonymous VPNs.	enable Configuration Mode is ADVANCED
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 (allows <a href="#">variables</a> )	This specifies the URL to which to redirect anonymous VPN requests.	detectAnonymousVpnAction is REDIRECT
detectPublicProxy	boolean	This enables detection of requests from public proxies.	enable Configuration Mode 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 (allows <a href="#">variables</a> )	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.	enable Configuration Mode 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 (allows <a href="#">variables</a> )	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.	enable Configuration Mode 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.	

Option	Type	Description	Requires
detectSmart DNSProxy Redirecturl	string (allows <a href="#">variables</a> )	This specifies the URL to which to redirect DNS proxy requests.	detectSmart DNSProxyAction is REDIRECT
detect Hosting Provider	boolean	This detects requests from a hosting provider.	enable Configuration Mode is ADVANCED
detect Hosting Provider Action	enum	This specifies whether to DENY , ALLOW , or REDIRECT requests from hosting providers.	detectHosting Provider is true
	ALLOW	Allow the request.	
	DENY	Deny the request.	
	REDIRECT	Respond with a redirect.	
detect Hosting Provider Redirecturl	string (allows <a href="#">variables</a> )	This specifies the absolute URL to which to redirect requests from hosting providers.	detectHosting ProviderAction is REDIRECT
detectVpn DataCenter	boolean	This enables detection of requests from VPN data centers.	enable Configuration Mode is ADVANCED
detectVpn DataCenter Action	enum	This specifies whether to DENY , ALLOW , or REDIRECT requests from VPN data centers.	detectVpnData Center is true
	ALLOW	Allow the request.	
	DENY	Deny the request.	
	REDIRECT	Respond with a redirect.	
detectVpn DataCenter Redirecturl	string (allows <a href="#">variables</a> )	This specifies the URL to which to redirect requests from VPN data centers.	detectVpnData CenterAction is REDIRECT

## epdForwardHeaderEnrichment

- **Property Manager name:** [Enhanced Proxy Detection with GeoGuard - Forward Header Enrichment](#)
- **Behavior version:** The v2021-09-22 rule format supports the epdForwardHeaderEnrichment behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior identifies unwanted requests from an anonymous proxy. This and the [enhancedProxyDetection](#) behavior work together and need to be included either in the same rule, or in the default one.

Option	Type	Description
enabled	boolean	<p>Sends the Enhanced Proxy Detection ( Akamai-EPD ) header in the forward request to determine whether the connecting IP address is an anonymous proxy. The header can contain one or more two-letter codes that indicate the IP address type detected by edge servers:</p> <ul style="list-style-type: none"> <li>av for is_anonymous_vpn</li> <li>hp for is_hosting_provider</li> <li>pp for is_public_proxy</li> <li>dp for is_smart_dns_proxy</li> <li>tn for is_tor_exit_node</li> <li>vc for is_vpn_datacentre</li> </ul>

## failAction

- **Property Manager name:** [Site Failover](#)
- **Behavior version:** The v2021-09-22 rule format supports the failAction behavior v1.7.
- **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.	
	SERVE_STALE	Serves content that is already in the cache.	
	REDIRECT	Specifies a redirect action. (Use with these options: redirectHostnameType , redirectHostname , redirectCustomPath , redirectPath , redirectMethod , modifyProtocol , and protocol .)	
	RECREATED_CO	Serves alternate content from your network. (Use with these options: contentHostname , contentCustomPath , and contentPath .)	
	RECREATED_CEX	Serves alternate content from an external network. (Use with these options: cexHostname , cexCustomPath , and cexPath .)	
	RECREATED_NS	Serves <a href="#">NetStorage</a> content. (Use with these options: netStorageHostname , netStoragePath , and cpCode .)	
	DYNAMIC	Allows you to serve dynamic SaaS content if SaaS acceleration is available on your contract. (Use with these options: dynamicMethod , dynamicCustomPath , saasType , saasSuffix , saasRegex , and saasReplace .)	
saasType	enum	Identifies the component of the request that identifies the SaaS dynamic fail action.	actionType is DYNAMIC

Option	Type	Description	Requires
		<b>Supported values:</b> COOKIE	
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 (allows <a href="#">variables</a> )	Specifies the name of the cookie that identifies this SaaS dynamic failaction.	saasType is COOKIE
saasQueryString	string (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 (allows <a href="#">variables</a> )	Specifies the replacement pattern that defines the SaaS dynamic failaction.	actionType is DYNAMIC
saasSuffix	string (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 (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 redirectHostname .	
redirectHostname	string (allows <a href="#">variables</a> )	When the actionType is REDIRECT and the redirectHostnameType is ALTERNATE , this specifies the hostname for the redirect.	redirectHostnameType is ALTERNATE
redirectCustomPath	boolean	Uses the redirectPath to customize a new path.	actionType is REDIRECT
redirectPath	string (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> 301 302	

Option	Type	Description	Requires
contentHostname	string (allows <a href="#">variables</a> )	Specifies the static hostname for the alternate redirect.	actionType is RECREATED_ CO
contentCustom Path	boolean	Specifies a custom redirect path.	actionType is RECREATED_ CO
contentPath	string (allows <a href="#">variables</a> )	Specifies a custom redirect path.	content CustomPath is true
netStorage Hostname	object	When the actionType is RECREATED_NS , specifies the <a href="#">Net Storage</a> origin to serve the alternate content. Contact Akamai Professional Services for your NetStorage origin's id .	actionType is RECREATED_ NS
netStorage Hostname.cpCode List	array	A set of CP codes that apply to this storage group.	
netStorage Hostname.download DomainName	string	Domain name from which content can be downloaded.	
netStorage Hostname.id	number	Unique identifier for the storage group.	
netStorage Hostname.name	string	Name of the storage group.	
netStorage Hostname.upload DomainName	string	Domain name used to upload content.	
netStoragePath	string (allows <a href="#">variables</a> )	When the actionType is RECREATED_NS , specifies the path for the <a href="#">NetStorage</a> request.	actionType is RECREATED_ NS
cexHostname	string (allows <a href="#">variables</a> )	Specifies a hostname.	actionType is RECREATED_ CEX
cexCustomPath	boolean	Specifies a custom path.	actionType is RECREATED_ CEX
cexPath	string (allows <a href="#">variables</a> )	Specifies a custom path.	cexCustom Path is true
cpCode	object	Specifies a CP code for which to log errors for the Net Storage location.	actionType is RECREATED_ NS
cp 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.	

Option	Type	Description	<a href="#">Requires</a>																														
statusCode	enum	Assigns a new HTTP status code to the failure response.	actionType is RECREATED_NS																														
		<b>Supported values:</b> <div><table><tr><td>100</td><td>103</td><td>201</td><td>204</td><td>207</td><td>401</td><td>404</td><td>407</td><td>410</td><td>413</td></tr><tr><td>101</td><td>122</td><td>202</td><td>205</td><td>226</td><td>402</td><td>405</td><td>408</td><td>411</td><td>414</td></tr><tr><td>102</td><td>200</td><td>203</td><td>206</td><td>400</td><td>403</td><td>406</td><td>409</td><td>412</td><td>415</td></tr></table></div>	100	103	201	204	207	401	404	407	410	413	101	122	202	205	226	402	405	408	411	414	102	200	203	206	400	403	406	409	412	415	
100	103	201	204	207	401	404	407	410	413																								
101	122	202	205	226	402	405	408	411	414																								
102	200	203	206	400	403	406	409	412	415																								
preserveQueryString	boolean	When using either contentCustomPath , cexCustomPath , dynamicCustomPath , or redirectCustomPath to specify a custom path, enabling this passes in the original request's query string as part of the path.	contentCustomPath is true OR cexCustomPath is true OR redirectCustomPath is true OR dynamicCustomPath is true																														
modifyProtocol	boolean	Modifies the redirect's protocol using the value of the protocol field.	actionType is REDIRECT OR dynamicMethod is either: SERVE_301 , SERVE_302																														
protocol	enum	When the actionType is REDIRECT and modifyProtocol is enabled, this specifies the redirect's protocol.	modifyProtocol is true																														
		<b>Supported values:</b> <div><table><tr><td>HTTP</td><td>HTTPS</td></tr></table></div>	HTTP	HTTPS																													
HTTP	HTTPS																																

## failoverBotManagerFeatureCompatibility

- **Property Manager name:** [Security Failover Feature Compatibility](#)
- **Behavior version:** The v2021-09-22 rule format supports the failoverBotManagerFeatureCompatibility behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Ensures that functionality such as challenge authentication and reset protocol work with a failover product property you use to create an alternate hostname. Apply it to any properties that implement a failover under the Cloud Security Failover product.

Option	Type	Description
compatibility	boolean	This behavior does not include any options. Specifying the behavior itself enables it.

## fastInvalidate

- **Property Manager name:** [Fast Invalidate \(Safe to remove\)](#).<sup>\*)</sup>
- **Behavior version:** The v2021-09-22 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 v2021-09-22 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 Insertion 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.	

Option	Type	Description	Requires
	ALWAYS	Insert it for all edge requests.	
cloudlet Policy	object	Identifies the Cloudlet policy.	JavaScript Insertion Rule is POLICY
cloudlet Policy.id	number	Identifies the Cloudlet.	
cloudlet Policy.name	string	The Cloudlet's descriptive name.	
mediaMath 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 <code>/mmath</code> , and the request is for <code>www.example.com/dir</code> , the new URL is <code>www.example.com/mmath/dir</code> .	

## firstPartyMarketingPlus

- **Property Manager name:** [Cloud Marketing Plus Cloudlet \(Beta\)](#) <sup>✎</sup>
- **Behavior version:** The `v2021-09-22` rule format supports the `firstPartyMarketingPlus` behavior `v1.0`.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Enables the [Cloud Marketing Plus 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 [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 Insertion 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 Policy	object	Identifies the Cloudlet policy.	JavaScript Insertion Rule is POLICY
cloudlet Policy.id	number	Identifies the Cloudlet.	
cloudlet Policy.name	string	The Cloudlet's descriptive name.	



Option	Type	Description	Requires
mediaMath 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 <code>/mmath</code> , and the request is for <code>www.example.com/dir</code> , the new URL is <code>www.example.com/mmath/dir</code> .	

## forwardRewrite

- **Property Manager name:** [Forward Rewrite Cloudlet](#)
- **Behavior version:** The `v2021-09-22` rule format supports the `forwardRewrite` behavior v4.0.
- **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](#), or use the [Cloudlets API](#) to configure it programmatically.

Option	Type	Description	Requires
enabled	boolean	Enables the Forward Rewrite Cloudlet behavior.	
isShared Policy	boolean	Whether you want to use a shared policy for a Cloudlet. Learn more about shared policies and how to create them in <a href="#">Cloudlets Policy Manager</a> .	
cloudlet Policy	object	Identifies the Cloudlet policy.	isShared Policy is false
cloudlet Policy.id	number	Identifies the Cloudlet.	
cloudlet Policy.name	string	The Cloudlet's descriptive name.	
cloudlet Shared Policy	string	This identifies the Cloudlet shared policy to use with this behavior. You can list available shared policies with the <a href="#">Cloudlets API</a> .	isShared Policy is true


## httpToHttpsUpgrade


**Property Manager name:** [HTTP to HTTPS Upgrade](#)

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 does not include any options. Specifying the behavior itself enables it.


## frontEndOptimization

- **Property Manager name:** [Front-End Optimization \(FEO\)](#) 
- **Behavior version:** The v2021-09-22 rule format supports the frontEndOptimization behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior enables [Front End Optimization](#) , 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 v2021-09-22 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	<a href="#">Requires</a>
enabled	boolean	Enables the g2o verification behavior.	
data Header	string	Specifies the name of the header that contains the request data that needs to be encrypted.	
signed Header	string	Specifies the name of the header containing encrypted request data.	
encoding Version	enum	Specifies the version of the encryption algorithm as an integer from 1 through 5 .	
		<b>Supported values:</b> 1 2 3 4 5	

Option	Type	Description	Requires
useCustomSignString	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.	
customSignString	string array	Specifies the set of data to be encrypted as a combination of concatenated strings.	useCustomSignString is <code>true</code>
	AK_METHOD	Incoming request method.	
	AK_SCHEME	Incoming request scheme (HTTP or HTTPS).	
	AK_HOSTHEADER	Incoming request hostname.	
	AK_DOMAIN	Incoming request domain.	
	AK_URL	Incoming request URL.	
	AK_PATH	Incoming request path.	
	AK_QUERY	Incoming request query string.	
	AK_FILENAME	Incoming request filename.	
	AK_EXTENSION	Incoming request filename extension.	
	AK_CLIENT_REAL_IP	Incoming client IP.	
secretKey	object array	Specifies the shared secret key.	
nonce	string	Specifies the cryptographic <i>nonce</i> string.	

## globalRequestNumber

- **Property Manager name:** [Global Request Number](#)<sup>2</sup>
- **Behavior version:** The `v2021-09-22` rule format supports the `globalRequestNumber` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Generates a unique identifier for each request on the Akamai edge network, for use in logging and debugging. GRN identifiers follow the same format as Akamai's error reference strings, for example: `0.05313217.1567801841.1457a3`. You can use the Edge Diagnostics API's [Translate error string](#)<sup>3</sup> operation to get low-level details about any request.

Option	Type	Description	Requires
outputOption	enum	Specifies how to report the GRN value.	
	RESPONSE_HEADER	Use a response header.	

Option	Type	Description	<a href="#">Requires</a>
	REQUEST_HEADER	Use a request header.	
	BOTH_HEADERS	Use both headers.	
	ASSIGN_VARIABLE	Process the value in some other way as a <a href="#">variable</a> .	
header Name	string	With <code>outputOption</code> set to specify any set of headers, this specifies the name of the header to report the GRN value.	<code>outputOption</code> is either: <code>RESPONSE_HEADER</code> , <code>REQUEST_HEADER</code> , <code>BOTH_HEADERS</code>
variable Name	string ( <a href="#">variable name</a> )	This specifies the name of the variable to assign the GRN value to. You need to pre-declare any <a href="#">variable</a> you specify within the rule tree.	<code>outputOption</code> is <code>ASSIGN_VARIABLE</code>

## graphqlCaching

- **Property Manager name:** [GraphQL Caching](#)
- **Behavior version:** The `v2021-09-22` 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
<code>enabled</code>	boolean	Enables GraphQL caching.
<code>cache Responses WithErrors</code>	boolean	When enabled, caches responses that include an <code>error</code> 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.
<code>postRequest Processing ErrorHandling</code>	enum	Specify what happens if GraphQL query processing fails on POST requests.
	<code>APPLY_CACHING_BEHAVIOR</code>	If your GraphQL server does not allow mutations and subscriptions, this offloads requests.
	<code>NO_STORE</code>	Pass requests to the origin.
<code>operationsUrl Query Parameter Name</code>	string	Specifies the name of a query parameter that identifies requests as GraphQL queries.
<code>operations JsonBody Parameter Name</code>	string	The name of the JSON body parameter that identifies GraphQL POST requests.

## gzipResponse

- **Property Manager name:** [Last Mile Acceleration \(Gzip Compression\)](#) <sup>ⓘ</sup>
- **Behavior version:** The v2021-09-22 rule format supports the gzipResponse behavior v1.2.
- **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
behavior	enum	Specify when to compress responses.
	ORIGIN_RESPONSE	Compress for clients that send an Accept-Encoding: gzip header.
	ALWAYS	Always compress.
	NEVER	Never compress.

## hdDataAdvanced

- **Property Manager name:** [HD Data Override: Advanced Metadata](#) <sup>ⓘ</sup>
- **Behavior version:** The v2021-09-22 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.

## healthDetection

- **Property Manager name:** [Origin Health Detection](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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
<code>retryCount</code>	number	The number of consecutive connection failures that mark an IP address as faulty.
<code>retryInterval</code>	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.
<code>maximumReconnects</code>	number	Specifies the maximum number of times the edge server will contact your origin server. If your origin is associated with several IP addresses, <code>maximumReconnects</code> effectively overrides the value of <code>retryCount</code> .

## http2

- **Property Manager name:** [HTTP/2](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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.

## http3

- **Property Manager name:** [HTTP/3 Support](#) <sup>↗</sup>

- **Behavior version:** The `v2021-09-22` rule format supports the `http3` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This enables the HTTP/3 protocol that uses QUIC. The behavior allows for improved performance and faster connection setup. You can only apply this behavior if the property is marked as secure. See [Secure property requirements](#) and the [Property Manager documentation](#) for guidance.

Option	Type	Description
<code>enable</code>	boolean	This enables HTTP/3 connections between requesting clients and Akamai edge servers. To use this option, you need to enable the SNI-only option in your hostname certificate. You also need to enable QUIC and TLS 1.3 in your certificate deployment settings. See the <a href="#">Property Manager documentation</a> for more details.

## httpStrictTransportSecurity

- **Property Manager name:** [HTTP Strict Transport Security \(HSTS\)](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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	<a href="#">Requires</a>
<code>enable</code>	boolean	Applies HSTS to this set of requests.	
<code>maxAge</code>	enum	Specifies the duration for which to apply HSTS for new browser connections.	
	<code>ZERO_MINS</code>	This effectively disables HSTS, without affecting any existing browser connections.	
	<code>TEN_MINS</code>	10 minutes.	
	<code>ONE_DAY</code>	1 day.	
	<code>ONE_MONTH</code>	1 month.	
	<code>THREE_MONTHS</code>	3 months.	
	<code>SIX_MONTHS</code>	6 months.	
	<code>ONE_YEAR</code>	1 year.	

Option	Type	Description	Requires
include Sub Domains	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="https://hstspreload.org">hstspreload.org</a> .	maxAge is not ZERO_MINS
redirect	boolean	When enabled, redirects all HTTP requests to HTTPS.	maxAge is not ZERO_MINS
redirect Status Code	enum	Specifies a response code.	maxAge is not ZERO_MINS AND redirect is true
		<b>Supported values:</b> 301 302	

## httpToHttpsUpgrade

- **Property Manager name:** [HTTP to HTTPS Upgrade](#)
- **Behavior version:** The v2021-09-22 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 `origin CertsToHonor` to verify SSL certificates.

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

## mediaAccelerationQuicOptout

**Property Manager name:** [Media Acceleration Opt-Out](#)

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

This behavior does not include any options. Specifying the behavior itself enables it.

## imOverride



- **Property Manager name:** [Image and Video Manager: Set Parameter](#)<sup>1)</sup>
- **Behavior version:** The v2021-09-22 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

Option	Type	Description	Requires
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 typeset 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 typeset is VARIABLE
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 POLICY AND typeset is VALUE
policyvar 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 POLICY_ VARIABLE
policyvar IMvar	string ( <a href="#">variable 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 POLICY_ VARIABLE

## imageManager


- **Property Manager name:** [Image and Video Manager \(Images\)](#).<sup>\*</sup>
- **Behavior version:** The v2021-09-22 rule format supports the imageManager behavior v2.0.
- **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](#)<sup>🔗</sup>. To apply this behavior, you need to match on a [fileExtension](#). Once you apply Image and Video Manager to traffic, you can add the [advancedImMatch](#) 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.	use Existing PolicySet is not true

Option	Type	Description	<a href="#">Requires</a>
	US	United States.	
	ASIA	Asia.	
	AUSTRALIA	Australia.	
	EMEA	Europe, Middle East, and Africa.	
	JAPAN	Japan.	
	CHINA	China.	
cpCodeOriginal	object	Assigns a CP code to track traffic and billing for original images that the Image and Video Manager has not modified.	
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	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.	
useExistingPolicySet	boolean	Whether to use a previously created policy set that may be referenced in other properties, or create a new policy set to use with this property. A policy set can be shared across multiple properties belonging to the same contract. The behavior populates any changes to the policy set across all properties that reference that set.	
policySet	object	Identifies the existing policy set configured with <a href="#">Image and Video Manager API</a> .	use Existing PolicySet is true
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.	use Existing PolicySet is false
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 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. The <code>advanced</code> option needs to be inactive.	advanced is false

# imageManagerVideo

- **Property Manager name:** [Image and Video Manager \(Videos\)](#) 
- **Behavior version:** The `v2021-09-22` rule format supports the `imageManagerVideo` behavior `v2.0`.
- **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
<code>enabled</code>	boolean	Applies Image and Video Manager's video optimization to the current content.	
<code>resize</code>	boolean	When enabled, scales down video for smaller mobile screens, based on the device's <code>User-Agent</code> header.	
<code>applyBestFileType</code>	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.	
<code>superCacheRegion</code>	enum	To optimize caching, assign a region close to your site's heaviest traffic.	use Existing PolicySet is not true
	<code>US</code>	United States.	
	<code>ASIA</code>	Asia.	
	<code>AUSTRALIA</code>	Australia.	
	<code>EMEA</code>	Europe, Middle East, and Africa.	
	<code>JAPAN</code>	Japan.	
	<code>CHINA</code>	China.	
<code>cpCodeOriginal</code>	object	Select the CP code for which to track Image and Video Manager video traffic. Use this along with <code>cpCodeTransformed</code> to track traffic to derivative video content.	
<code>cpCodeOriginal.description</code>	string	Additional description for the CP code.	
<code>cpCodeOriginal.id</code>	integer	Unique identifier for each CP code.	
<code>cpCodeOriginal.name</code>	string	The name of the CP code.	
<code>cpCodeOriginal.products</code>	array	The set of products the CP code is assigned to.	
<code>cpCodeTransformed</code>	object	Select the CP code to identify derivative transformed video content.	
<code>cpCodeTransformed.description</code>	string	Additional description for the CP code.	
<code>cpCodeTransformed.id</code>	integer	Unique identifier for each CP code.	

Option	Type	Description	Requires
cpCode Transformed.name	string	The name of the CP code.	
cpCode Transformed.products	array	The set of products the CP code is assigned to.	
useExistingPolicySet	boolean	Whether to use a previously created policy set that may be referenced in other properties, or create a new policy set to use with this property. A policy set can be shared across multiple properties belonging to the same contract. The behavior populates any changes to the policy set across all properties that reference that set.	
policySet	object	Identifies the existing policy set configured with <a href="#">Image and Video Manager API</a> .	use Existing PolicySet is true
advanced	boolean	When disabled, applies a single standard policy based on your property name. Allows you to reference a rule-specific policy Token for videos with different match criteria.	use Existing PolicySet is false
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

## include

- **Property Manager name:** Include
- **Behavior version:** The v2021-09-22 rule format supports the include behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Includes let you reuse chunks of a property configuration that you can manage separately from the rest of the property rule tree.

Option	Type	Description
id	string	Identifies the include you want to add to your rule tree. You can get the include ID using <a href="#">PAPI</a> . This option only accepts digits, without the <a href="#">inc_ ID prefix</a> .

## inputValidation

- **Property Manager name:** [Input Validation Cloudlet](#)
- **Behavior version:** The v2021-09-22 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
<code>enabled</code>	boolean	Applies the Input Validation Cloudlet behavior.	
<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	Distinguishes this Input Validation policy from any others within the same property.	
<code>userIdentificationByCookie</code>	boolean	When enabled, identifies users by the value of a cookie.	
<code>userIdentificationKeyCookie</code>	string	This specifies the cookie name whose value needs to remain constant across requests to identify a user.	<code>userIdentificationByCookie</code> is <code>true</code>
<code>userIdentificationByIp</code>	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.	
<code>userIdentificationByHeaders</code>	boolean	When enabled, identifies users by specific HTTP headers on GET or POST requests.	
<code>userIdentificationKeyHeaders</code>	string array	This specifies the HTTP headers whose combined set of values identify each end user.	<code>userIdentificationByHeaders</code> is <code>true</code>
<code>userIdentificationByParams</code>	boolean	When enabled, identifies users by specific query parameters on GET or POST requests.	
<code>userIdentificationKeyParams</code>	string array	This specifies the query parameters whose combined set of values identify each end user.	<code>userIdentificationByParams</code> is <code>true</code>
<code>allowLargePostBody</code>	boolean	Fails POST request bodies that exceed 16 KB when enabled, otherwise allows them to pass with no validation for policy compliance.	
<code>resetOnValid</code>	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> .	

Option	Type	Description	Requires
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 validateOnOriginWith is set to RESPONSE_CODE_AND_HEADER , this specifies the header name for a request that the origin identifies as invalid.	validateOnOriginWith is RESPONSE_CODE_AND_HEADER
validateOnOriginHeaderValue	string	If validateOnOriginWith is set to RESPONSE_CODE_AND_HEADER , this specifies an invalid request's header value that corresponds to the validateOnOriginHeaderName .	validateOnOriginWith is RESPONSE_CODE_AND_HEADER
validateOnOriginResponseCode	number	Unless validateOnOriginWith is DISABLED , this identifies the integer response code for requests the origin identifies as invalid.	validateOnOriginWith is either: RESPONSE_CODE , RESPONSE_CODE_AND_HEADER
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 penaltyAction .	
penaltyAction	enum	Once the penaltyThreshold 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.	penaltyAction is REDIRECT_302
penaltyNetStorage	object	Specifies the NetStorage account that serves out the penalty's static 403 response content. Details appear in an object featuring a downloadDomainName string member that identifies the NetStorage hostname, and an integer cpCode to track the traffic.	penaltyAction is BRANDED_403
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.	

Option	Type	Description	Requires
penaltyNet Storage.upload DomainName	string	Domain name used to upload content.	
penalty403Net StoragePath	string	Specifies the full path to the static 403 response content relative to the <code>downloadDomainName</code> in the <code>penaltyNet</code> <code>Storage</code> object.	<code>penaltyAction</code> is <code>BRANDED_403</code>
penaltyBranded DenyCacheTtl	number (5-30)	Specifies the penalty response's time to live in the cache, 5 minutes by default.	<code>penaltyAction</code> is <code>BRANDED_403</code>

## instant

- **Property Manager name:** [Akamai Instant \(Prefetching\)](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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
prefetch Cacheable	boolean	When enabled, applies prefetching only to objects already set to be cacheable, for example using the <a href="#">caching</a> behavior. Only applies to content with the <a href="#">tieredDistribution</a> behavior enabled.	
prefetch NoStore	boolean	Allows otherwise non-cacheable <code>no-store</code> content to prefetch if the URL path ends with <code>/</code> to indicate a request for a default file, or if the extension matches the value of the <code>prefetchNoStoreExtensions</code> option. Only applies to content with the <a href="#">sureRoute</a> behavior enabled.	
prefetch NoStore Extensions	string array	Specifies a set of file extensions for which the <code>prefetchNoStore</code> option is allowed.	<code>prefetchNoStore</code> is <code>true</code>
prefetch Html	boolean	Allows edge servers to prefetch additional HTML pages while pages that link to them are being delivered. This only applies to links from <code>&lt;a&gt;</code> or <code>&lt;link&gt;</code> tags with the appropriate link relation attribute.	<code>prefetchCacheable</code> is <code>true</code> OR <code>prefetchNoStore</code> is <code>true</code>



Option	Type	Description	Requires
custom Link Relations	string array	Specify link relation values that activate the prefetching behavior. For example, specifying <code>fetch</code> allows you to use shorter <code>rel="fetch"</code> markup.	prefetch Html is true

## instantConfig

- **Property Manager name:** [InstantConfig](#)
- **Behavior version:** The `v2021-09-22` 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
enabled	boolean	Enables the InstantConfig behavior.

## largeFileOptimization

- **Property Manager name:** [Large File Optimization](#)
- **Behavior version:** The `v2021-09-22` 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	Requires
enabled	boolean	Enables the file optimization behavior.	

Option	Type	Description	Requires
enablePartialObjectCaching	enum	Specifies whether to cache partial objects.	
	PARTIAL_OBJECT_CACHING	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.	
	NON_PARTIAL_OBJECT_CACHING	Caches entire objects.	
minimumSize	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
maximumSize	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
useVersioning	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 v2021-09-22 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.

Option	Type	Description
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> <div>FOUR_MB HALF_MB ONE_MB TWO_MB</div>
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.

## limitBitRate

- **Property Manager name:** [Bit Rate Limiting](#) <sup>✱</sup>
- **Behavior version:** The v2021-09-22 rule format supports the limitBitRate behavior v1.2.
- **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
enabled	boolean	When enabled, activates the bit rate limiting behavior.
bitrateTable	object array	Specifies a download rate that corresponds to a thresholdTable entry. The bit rate appears as a two-member object consisting of a numeric bitrateValue and a bitrateUnit string, with allowed values of Kbps , Mbps , and Gbps .
bitrateTable[].bitrateValue	number	The numeric indicator of the download rate.
bitrateTable[].bitrateUnit	enum	The unit of measurement, either KBPS , MBPS , or GBPS .
		<b>Supported values:</b> <div>GBPS KBPS MBPS</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 bitrateTable entry. The threshold appears as a two-member object consisting of a numeric thresholdValue and thresholdUnit string, with allowed values of SECONDS or BYTES .
thresholdTable[].thresholdValue	number	The numeric indicator of the minimum file size or elapsed download time.

Option	Type	Description
threshold Table[].threshold Unit	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> <div> <span>BYTES</span> <span>SECONDS</span> </div>

## logCustom

- **Property Manager name:** [Log Custom Details](#)
- **Behavior version:** The `v2021-09-22` rule format supports the `logCustom` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Logs custom details from the origin response in the [Log Delivery Service](#) report.

Option	Type	Description	<a href="#">Requires</a>
log Custom LogField	boolean	Whether to append additional custom data to each log line.	
custom LogField	string (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. Since this option can specify both a request and response, it overrides any <code>customLogField</code> settings in the <a href="#">report</a> behavior.	<code>logCustom LogField</code> is <code>true</code>

## mPulse

- **Property Manager name:** [mPulse](#)
- **Behavior version:** The `v2021-09-22` rule format supports the `mPulse` behavior v1.4.
- **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
enabled	boolean	Applies performance monitoring to this behavior's set of content.

Option	Type	Description
require Pci	boolean	Suppresses gathering metrics for potentially sensitive end-user interactions. Enabling this omits data from some older browsers.
loader Version	enum	Specifies the version of the Boomerang JavaScript loader snippet. See <a href="#">mPulse Loader Snippets</a> for more information.
	V10	Use version 10.
	V12	Use version 12.
	LATEST	Automatically update to the latest available production version.
	BETA	Use the latest version, including beta releases.
apiKey	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> .
buffer Size	string	Allows you to override the browser's default (150) maximum number of reported performance timeline entries.
config Override	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.

## manifestPersonalization

- **Property Manager name:** [Manifest Personalization](#)
- **Behavior version:** The `v2021-09-22` 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.	
hls Enabled	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 true
	BEST_PRACTICE	Specify the default best practice mode.	
	CUSTOM	Specify a custom manifest.	
hls Preferred Bitrate	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 CUSTOM

Option	Type	Description	Requires
hlsFilterInBitrates	string	Specifies a comma-delimited set of preferred bit rates, such as 100,200,400 . Playlists specified in the #EXT-X-STREAM-INF tag with bit rates outside of any of those values by up to 100 Kbps are excluded from the manifest.	hlsMode is CUSTOM
hlsFilterInBitrateRanges	string	Specifies a comma-delimited set of bit rate ranges, such as 100-400,1000-4000 . Playlists specified in the #EXT-X-STREAM-INF tag with bit rates outside of any of those ranges are excluded from the manifest.	hlsMode is CUSTOM
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 Akamai-Manifest-Personalization and Akamai-Manifest-Personalization-Config-Source debugging headers.	hlsShowAdvanced is true

## manifestRerouting

- **Property Manager name:** [Manifest Rerouting](#)
- **Behavior version:** The v2021-09-22 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 adobe_primetime , which is an external technology partner that provides value added offerings, like advertisement integration, to the requested media objects.
	adobe_primetime	This is currently the only supported value.
username	string	The user name for your Adobe Primetime account.

## manualServerPush

- **Property Manager name:** [Manual Server Push](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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
serverpushlist	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 v2021-09-22 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
enabled	boolean	Enables Media Acceleration.


## mediaAccelerationQuicOptout

- **Property Manager name:** [Media Acceleration \(QUIC Protocol\) Opt-Out](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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.


## mediaClient


- **Property Manager name:** [Media Client](#) 
- **Behavior version:** The v2021-09-22 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 v2021-09-22 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](#)<sup>3</sup>
- **Behavior version:** The v2021-09-22 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	Requires
<code>detectOriginUnresponsive</code>	boolean	Allows you to configure what happens when the origin is unresponsive.	
<code>originUnresponsiveDetectionLevel</code>	enum	Specify the level of response to slow origin connections.	<code>detectOriginUnresponsive</code> is <code>true</code>
	<code>AGGRESSIVE</code>	Aggressive response.	
	<code>CONSERVATIVE</code>	Conservative response.	
	<code>MODERATE</code>	Moderate response.	
<code>originUnresponsiveBlacklistOriginIp</code>	boolean	Enabling this blacklists the origin's IP address.	<code>detectOriginUnresponsive</code> is <code>true</code>
<code>originUnresponsiveBlacklistWindow</code>	enum	This sets the delay before blacklisting an IP address.	<code>originUnresponsiveBlacklistOriginIp</code> is <code>true</code>
	<code>TEN_S</code>	10 seconds.	
	<code>THIRTY_S</code>	30 seconds.	
<code>originUnresponsiveRecovery</code>	enum	This sets the recovery option.	<code>detectOriginUnresponsive</code> is <code>true</code>
	<code>RETRY_X_TIMES</code>	Retry.	
	<code>SWITCH_TO_BACKUP_ORIGIN</code>	Switch to a backup origin.	
	<code>REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION</code>	Redirect to a different origin.	
<code>originUnresponsiveRetryLimit</code>	enum	Sets how many times to retry.	<code>originUnresponsiveRecovery</code> is <code>RETRY_X_TIMES</code>
		<b>Supported values:</b> <code>ONE</code> <code>THREE</code>	
<code>originUnresponsiveBackupHost</code>	string	This specifies the origin hostname.	<code>originUnresponsiveRecovery</code> is <code>SWITCH_TO_BACKUP_ORIGIN</code>
<code>originUnresponsiveAlternateHost</code>	string	This specifies the redirect's destination hostname.	<code>originUnresponsiveRecovery</code> is <code>REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION</code>

Option	Type	Description	Requires
originUnresponsiveModifyRequestPath	boolean	Modifies the request path.	originUnresponsiveRecovery is SWITCH_TO_BACKUP_ORIGIN 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> 301 302	
originUnresponsiveChangeProtocol	boolean	This allows you to change the request protocol.	originUnresponsiveRecovery is SWITCH_TO_BACKUP_ORIGIN OR originUnresponsiveRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION
originUnresponsiveProtocol	enum	Specifies which protocol to use.	originUnresponsiveChangeProtocol is true
		<b>Supported values:</b> HTTP HTTPS	
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.	

Option	Type	Description	Requires
	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> ONE THREE	
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 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> 301 302	
originUnavailableChangeProtocol	boolean	Modifies the request protocol.	originUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN OR originUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION
originUnavailableProtocol	enum	Specifies either the HTTP or HTTPS protocol.	originUnavailableChangeProtocol is true
		<b>Supported values:</b> HTTP HTTPS	
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.	

Option	Type	Description	Requires
object Unavailable ResponseCodes	string array	Specifies the set of response codes identifying when there are content errors.	detectObjectUnavailable is true
object Unavailable BlacklistOriginIp	boolean	Enabling this blacklists the origin's IP address.	detectObjectUnavailable is true
object Unavailable BlacklistWindow	enum	This sets the delay before blacklisting an IP address.	objectUnavailableBlacklistOriginIp is true
	TEN_S	10 seconds.	
	THIRTY_S	30 seconds.	
object Unavailable Recovery	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.	
object UnavailableRetry Limit	enum	Sets how many times to retry.	objectUnavailableRecovery is RETRY_X_TIMES
		<b>Supported values:</b> ONE THREE	
object Unavailable BackupHost	string	This specifies the origin hostname.	objectUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN
object Unavailable AlternateHost	string	This specifies the redirect's destination hostname.	objectUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION
object Unavailable ModifyRequest Path	boolean	Enabling this allows you to modify the request path.	objectUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN OR objectUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION
object Unavailable ModifiedPath	string	This specifies the path to form the new URL.	objectUnavailableModifyRequestPath is true
object Unavailable IncludeQuery String	boolean	Enabling this includes the original set of query parameters.	objectUnavailableModifyRequestPath is true
object Unavailable RedirectMethod	enum	Specifies a redirect response code.	objectUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION
		<b>Supported values:</b> 301 302	

Option	Type	Description	Requires
object Unavailable ChangeProtocol	boolean	Changes the request protocol.	objectUnavailableRecovery is SWITCH_TO_BACKUP_ORIGIN OR objectUnavailableRecovery is REDIRECT_TO_DIFFERENT_ORIGIN_LOCATION
object Unavailable Protocol	enum	Specifies either the HTTP or HTTPS protocol.	objectUnavailableChangeProtocol is true
		<b>Supported values:</b> HTTP HTTPS	
clientResponse Code	string	Specifies the response code served to the client.	
cacheError 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.	

## metadataCaching

- **Property Manager name:** [Metadata Caching](#)
- **Behavior version:** The v2021-09-22 rule format supports the metadataCaching behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#).

This behavior reduces time spent waiting for the initial response, also known as time to first byte, during peak traffic events. Contact Akamai Professional Services for help configuring it.

Option	Type	Description
enabled	boolean	Enables metadata caching.

## mobileSdkPerformance

- **Property Manager name:** [Mobile App Performance SDK](#)
- **Behavior version:** The v2021-09-22 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](#)<sup>\*</sup>
- **Behavior version:** The v2021-09-22 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>
action	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.	
standardAddHeaderName	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.	

Option	Type	Description	Requires
standard DeleteHeader Name	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.	
standard ModifyHeader Name	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.	
standardPass HeaderName	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.	
custom HeaderName	string (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> OR <code>standardDeleteHeaderName</code> is <code>OTHER</code> OR <code>standardModifyHeaderName</code> is <code>OTHER</code> OR <code>standardPassHeaderName</code> is <code>OTHER</code>
<code>headerValue</code>	string (allows <a href="#">variables</a> )	Specifies the new header value.	<code>action</code> is <code>ADD</code>
<code>newHeaderValue</code>	string (allows <a href="#">variables</a> )	Supplies an HTTP header replacement value.	<code>action</code> is <code>MODIFY</code>
<code>avoidDuplicateHeaders</code>	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>

## modifyIncomingResponseHeader

- **Property Manager name:** [Modify Incoming Response Header](#)<sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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	<a href="#">Requires</a>
<code>action</code>	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.	
<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>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.	
	<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>CACHE_CONTROL</code>	The <code>Cache-Control</code> header.	
	<code>CONTENT_TYPE</code>	The <code>Content-Type</code> header.	
	<code>VARY</code>	The <code>Vary</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>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>OTHER</code>	Specify another header to modify.	
<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>CACHE_CONTROL</code>	Pass through the <code>Cache-Control</code> header.	
	<code>EXPIRES</code>	Pass through the <code>Expires</code> header.	



Option	Type	Description	<a href="#">Requires</a>
	PRAGMA	Pass through the <code>Pragma</code> header.	
	OTHER	Specify another header to pass.	
custom HeaderName	string (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> .	standardAddHeader Name is <code>OTHER</code> OR standardDelete HeaderName is <code>OTHER</code> OR standardModify HeaderName is <code>OTHER</code> OR standardPass HeaderName is <code>OTHER</code>
headerValue	string (allows <a href="#">variables</a> )	Specifies the header's new value.	action is <code>ADD</code>
newHeader Value	string (allows <a href="#">variables</a> )	Specifies an HTTP header replacement value.	action is <code>MODIFY</code>
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.	action is <code>MODIFY</code>

## modifyOutgoingRequestHeader

- **Property Manager name:** [Modify Outgoing Request Header](#) <sup>✎</sup>
- **Behavior version:** The `v2021-09-22` 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	<a href="#">Requires</a>
action	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.	
	ADD	Add the header.	
	DELETE	Delete the header.	

Option	Type	Description	<a href="#">Requires</a>
	MODIFY	Modify the header.	
	REGEX	Specify another header to modify.	
standard AddHeader Name	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>
	USER_AGENT	The <code>User-Agent</code> header.	
	OTHER	Specify another header to add.	
standard Delete Header Name	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>
	PRAGMA	The <code>Pragma</code> header.	
	USER_AGENT	The <code>User-Agent</code> header.	
	VIA	The <code>Via</code> header.	
	OTHER	Specify another header to remove.	
standard Modify Header Name	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>
	USER_AGENT	The <code>User-Agent</code> 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 <code>OTHER</code> .	<code>standardAddHeaderName</code> is <code>OTHER</code> OR <code>standardDeleteHeaderName</code> is <code>OTHER</code> OR <code>standardModifyHeaderName</code> is <code>OTHER</code>
header Value	string (allows <a href="#">variables</a> )	Specifies the new header value.	<code>action</code> is <code>ADD</code>
new Header Value	string (allows <a href="#">variables</a> )	Specifies an HTTP header replacement value.	<code>action</code> is <code>MODIFY</code>
regex Header Match	string (allows <a href="#">variables</a> )	Specifies a Perl-compatible regular expression to match within the header value.	<code>action</code> is <code>REGEX</code>
regex Header Replace	string (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>
match Multiple	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>
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](#)<sup>\*</sup>
- **Behavior version:** The v2021-09-22 rule format supports the modifyOutgoingResponseHeader behavior v1.5.
- **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>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>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.	
	<code>ACCESS_CONTROL_ALLOW_HEADERS</code>	The <code>Access-Control-Allow-Headers</code> header.	
	<code>ACCESS_CONTROL_EXPOSE_HEADERS</code>	The <code>Access-Control-Expose-Headers</code> header.	

Option	Type	Description	<a href="#">Requires</a>
	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.	
	ACCESS_CONTROL_ALLOW_METHODS	The Access-Control-Allow-Methods header.	
	ACCESS_CONTROL_ALLOW_HEADERS	The Access-Control-Allow-Headers header.	

Option	Type	Description	Requires
	ACCESS_CONTROL_EXPOSE_HEADERS	The <code>Access-Control-Expose-Headers</code> header.	
	ACCESS_CONTROL_ALLOW_CREDENTIALS	The <code>Access-Control-Allow-Credentials</code> header.	
	ACCESS_CONTROL_MAX_AGE	The <code>Access-Control-Max-Age</code> 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 <code>OTHER</code> .	<code>standardAddHeaderName</code> is <code>OTHER</code> OR <code>standardDeleteHeaderName</code> is <code>OTHER</code> OR <code>standardModifyHeaderName</code> is <code>OTHER</code>
header Value	string (allows <a href="#">variables</a> )	Specifies the existing value of the header to match.	<code>action</code> is <code>ADD</code>
new Header Value	string (allows <a href="#">variables</a> )	Specifies the new HTTP header replacement value.	<code>action</code> is <code>MODIFY</code>
regex Header Match	string	Specifies a Perl-compatible regular expression to match within the header value.	<code>action</code> is <code>REGEX</code>
regex Header Replace	string (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>
match Multiple	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>
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. 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.	<code>action</code> is <code>MODIFY</code>

## modifyViaHeader

- **Property Manager name:** [Modify Via Header](#)
- **Behavior version:** The `v2021-09-22` rule format supports the `modifyViaHeader` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Removes or renames the HTTP `Via` headers used to inform the server of proxies through which the request was sent to the origin.

Option	Type	Description	Requires
<code>enabled</code>	boolean	Enables <code>Via</code> header modifications.	
<code>modificationOption</code>	enum	Specify how you want to handle the header.	
	<code>REMOVE_HEADER</code>	Remove the header.	
	<code>RENAME_HEADER</code>	Rename the header.	
<code>renameHeaderTo</code>	string	Specifies a new name to replace the existing <code>Via</code> header.	<code>modificationOption</code> is <code>RENAME_HEADER</code>

## networkConditionsHeader

- **Property Manager name:** [Network Conditions Header](#)🔗
- **Behavior version:** The `v2021-09-22` 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
<code>behavior</code>	enum	Specifies either two or three quality levels.
	<code>TWO_TIER</code>	The assessment is either <code>Excellent</code> or <code>Poor</code> .
	<code>THREE_TIER</code>	The assessment can also be <code>Fair</code> .

## origin

- **Property Manager name:** [Origin Server](#)🔗
- **Behavior version:** The `v2021-09-22` rule format supports the `origin` behavior v1.21.
- **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, [NetStorage](#)🔗, an Edge Load Balancing origin, or a SaaS dynamic origin.

Option	Type	Description	Requires
originType	enum	Choose where your content is retrieved from.	
	CUSTOMER	From your own server.	
	NET_STORAGE	From your <a href="#">NetStorage</a> 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.	
netStorage	object	Specifies the details of the NetStorage server.	originType is NET_STORAGE
netStorage.cpCodeList	array	A set of CP codes that apply to this storage group.	
netStorage.downloadDomainName	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.uploadDomainName	string	Domain name used to upload content.	
originId	string	Identifies the Edge Load Balancing origin. This needs to correspond to an <a href="#">edgeLoadBalancingOrigin</a> behavior's id attribute within the same property.	originType is EDGE_LOAD_BALANCING_ORIGIN_GROUP
hostname	string (allows <a href="#">variables</a> )	Specifies the hostname or IPv4 address of your origin server, from which edge servers can retrieve your content.	originType is CUSTOMER
secondHostnameEnabled	boolean	Available only for certain products. This specifies whether you want to use an additional origin server address.	
secondHostname	string (allows <a href="#">variables</a> )	Specifies the origin server's hostname, IPv4 address, or IPv6 address. Edge servers retrieve your content from this origin server.	secondHostnameEnabled is true
mslorigin	string	This specifies the media's origin server.	originType is MEDIA_SERVICE_LIVE
saasType	enum	Specifies the part of the request that identifies this SaaS dynamic origin.	originType is SAAS_DYNAMIC_ORIGIN
		<b>Supported values:</b> COOKIE	
saasCnameEnabled	boolean	Enabling this allows you to use a <i>CNAME chain</i> to determine the hostname for this SaaS dynamic origin.	saasType is HOSTNAME
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

Option	Type	Description	Requires
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 saasRegex 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 originType is set to either CUSTOMER or SAAS_DYNAMIC_ORIGIN, this specifies which Host header to pass to the origin.	originType is either: CUSTOMER, SAAS_DYNAMIC_ORIGIN
	REQUEST_HOST_HEADER	Passes the original request's header.	
	ORIGIN_HOSTNAME	Passes the current origin's HOSTNAME.	
	CUSTOM	Passes the value of customForwardHostHeader. Use this option if you want requests handled by different properties to converge on the same cached object.	
customForwardHostHeader	string (allows variables)	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: CUSTOMER, SAAS_DYNAMIC_ORIGIN
	REQUEST_HOST_HEADER	Specify when using a virtual server.	
	ORIGIN_HOSTNAME	Specify if your origin server's responses do not depend on the hostname.	
ipVersion	enum	Specifies which IP version to use when getting content from the origin.	originType is either: CUSTOMER, EDGE_LOAD_BALANCING_ORIGIN_GROUP
	IPV4	Use IPv4.	
	DUALSTACK	Use both versions.	
	IPV6	Use IPv6.	
useUniqueCacheKey	boolean	With a shared hostname such as provided by Amazon AWS, sets a unique cache key for your content.	



Option	Type	Description	Requires
compress	boolean	Enables <i>gzip</i> compression for non-NetStorage origins.	originType is either: CUSTOMER , EDGE_LOAD_BALANCING_ORIGIN_GROUP , SAAS_DYNAMIC_ORIGIN
enableTrueClientIp	boolean	When enabled on non-NetStorage origins, allows you to send a custom header (the trueClientIpHeader ) identifying the IP address of the immediate client connecting to the edge server. This may provide more useful information than the standard X-Forward-For header, which proxies may modify.	originType is either: CUSTOMER , EDGE_LOAD_BALANCING_ORIGIN_GROUP , SAAS_DYNAMIC_ORIGIN
trueClientIpHeader	string	This specifies the name of the field that identifies the end client's IP address, for example True-Client-IP .	enableTrueClientIp is true
trueClientIpClientSetting	boolean	If a client sets the True-Client-IP 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 is true
verificationMode	enum	For non-NetStorage origins, maximize security by controlling which certificates edge servers should trust.	originType is either: CUSTOMER , EDGE_LOAD_BALANCING_ORIGIN_GROUP , SAAS_DYNAMIC_ORIGIN
	PLATFORM_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 either: CUSTOMER , EDGE_LOAD_BALANCING_ORIGIN_GROUP , SAAS_DYNAMIC_ORIGIN AND verificationMode is either: PLATFORM_SETTINGS , CUSTOM , THIRD_PARTY
customValidCnValues	string array	Specifies values to look for in the origin certificate's Subject Alternate Name or Common Name fields. Specify {{Origin Hostname}} and {{Forward Host Header}} 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 CUSTOM

Option	Type	Description	Requires
originCertsTo Honor	enum	Specifies which certificate to trust.	verification Mode is CUSTOM
	COMBO	May rely on all three other inputs.	
	STANDARD_CERTIFICATE_AUTHORITIES	Any certificate signed by an Akamai-managed authority set.	
	CUSTOM_CERTIFICATE_AUTHORITIES	Any certificate signed by a custom authority set you manage.	
	CUSTOM_CERTIFICATES	Pinned origin server certificates.	
custom Certificate Authorities	object array	Specifies an array of certification objects. Contact your Akamai representative for details on this object's requirements.	originCertsTo Honor is either: CUSTOM_CERTIFICATE_AUTHORITIES , COMBO
custom Certificates	object array	Specifies an array of certification objects. Contact your Akamai representative for details on this object's requirements.	originCertsTo Honor 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 v2021-09-22 rule format supports the originCharacteristics behavior v1.6.
- **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 *contentCharacteristics*.

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.	
	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.	
	AWS	Amazon Web Services.	

Option	Type	Description	<a href="#">Requires</a>
	GCS_HMAC_AUTHENTICATION	Google Cloud Platform.	
encoding Version	enum	Specifies the version of the encryption algorithm, an integer from 1 to 5 .	authentication Method is SIGNATURE_ HEADER_ AUTHENTICATION
useCustom SignString	boolean	Specifies whether to customize your signed string.	authentication Method 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.	authentication Method is SIGNATURE_ HEADER_ AUTHENTICATION AND useCustom SignString is true
		<b>Supported values:</b>  <div> AK_CLIENT_REAL_IP AK_DOMAIN AK_EXTENSION </div> <div> AK_FILENAME AK_HOSTHEADER AK_METHOD </div>	
secretKey	object array	Specifies the shared secret key.	authentication Method is SIGNATURE_ HEADER_ AUTHENTICATION
nonce	string	Specifies the nonce.	authentication Method is SIGNATURE_ HEADER_ AUTHENTICATION
mslkey	string	Specifies the access key provided by the hosting service.	authentication Method is MSL_ AUTHENTICATION
mslname	string	Specifies the origin name provided by the hosting service.	authentication Method is MSL_ AUTHENTICATION
accessKey Encrypted Storage	boolean	Enables secure use of access keys defined in Cloud Access Manager. Access keys store encrypted authentication details required to sign requests to cloud origins. If you disable this option, you'll need to store the authentication details unencrypted.	authentication Method is either: AWS , GCS_HMAC_ AUTHENTICATION
gcsAccessKey VersionGuid	string	Identifies the unique gcsAccessKeyVersionGuid access key <a href="#">created</a> in Cloud Access Manager to sign your requests to Google Cloud Storage in interoperability mode.	authentication Method is GCS_ HMAC_ AUTHENTICATION AND accessKey Encrypted Storage is true

Option	Type	Description	Requires
gcsHmacKey AccessId	string	Specifies the active access ID linked to your Google account.	authentication Method is GCS_ HMAC_ AUTHENTICATION AND accessKey Encrypted Storage is not true
gcsHmacKey Secret	string	Specifies the secret linked to the access ID that you want to use to sign requests to Google Cloud Storage.	authentication Method is GCS_ HMAC_ AUTHENTICATION AND accessKey Encrypted Storage is not true
awsAccessKey VersionGuid	string	Identifies the unique <code>awsAccessKeyVersionGuid</code> access key <a href="#">created</a> in Cloud Access Manager to sign your requests to AWS S3.	authentication Method is AWS AND accessKey Encrypted Storage is true
awsAccessKey Id	string	Specifies active access key ID linked to your AWS account.	authentication Method is AWS AND accessKey Encrypted Storage is not true
awsSecret AccessKey	string	Specifies the secret linked to the access key identifier that you want to use to sign requests to AWS.	authentication Method is AWS AND accessKey Encrypted Storage is not true
awsRegion	string	This specifies the AWS region code of the location where your bucket resides.	authentication Method is AWS
awsHost	string	This specifies the AWS hostname, without <code>http://</code> or <code>https://</code> prefixes. If you leave this option empty, it inherits the hostname from the <a href="#">origin</a> behavior.	authentication Method is AWS
awsService	string	This specifies the subdomain of your AWS service. It precedes <code>amazonaws.com</code> or the region code in the AWS hostname. For example, <code>s3.amazonaws.com</code> .	authentication Method is AWS

## originCharacteristicsWsd

- **Property Manager name:** [Origin Characteristics](#)
- **Behavior version:** The `v2021-09-22` 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.

## originFailureRecoveryMethod

- **Property Manager name:** [Origin Failure Recovery Method](#)↗
- **Behavior version:** The v2021-09-22 rule format supports the originFailureRecoveryMethod behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Origin Failover requires that you set up a separate rule containing origin failure recovery methods. You also need to set up the Origin Failure Recovery Policy behavior in a separate rule with a desired match criteria, and select the desired failover method. You can do this using Property Manager. Learn more about this process in [Adaptive Media Delivery Implementation Guide](#)↗. You can use the `originFailureRecoveryPolicy` member to edit existing instances of the Origin Failure Recover Policy behavior.

Option	Type	Description	<a href="#">Requires</a>
recoveryMethod	enum	Specifies the recovery method.	
	RETRY_ALTERNATE_ORIGIN	Retry with the alternate origin.	
	RESPOND_CUSTOM_STATUS	Customize the response.	
customStatusCode	string	Specifies the custom status code to be sent to the client.	recoveryMethod is RESPOND_CUSTOM_STATUS

## originFailureRecoveryPolicy

- **Property Manager name:** [Origin Failure Recovery Policy](#)↗
- **Behavior version:** The v2021-09-22 rule format supports the originFailureRecoveryPolicy behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Configures how to detect an origin failure, in which case the [originFailureRecoveryMethod](#) behavior applies. You can also define up to three sets of criteria to detect origin failure based on specific response codes. Use it to apply specific retry or recovery actions. You can do this using Property Manager. Learn more about this process in [Adaptive Media Delivery Implementation Guide](#)<sup>↗</sup>. You can use the [originFailureRecoveryMethod](#) member to edit existing instances of the Origin Failure Recover Method behavior.

Option	Type	Description	Requires
enabled	boolean	Activates and configures a recovery policy.	
enable IPAvoidance	boolean	Temporarily blocks an origin IP address that experienced a certain number of failures. When an IP address is blocked, the <code>configName</code> established for <code>originResponsivenessRecoveryConfigName</code> is applied.	
ipAvoidance ErrorThreshold	number	Defines the number of failures that need to occur to an origin address before it's blocked.	enable IPAvoidance is true
ipAvoidance RetryInterval	number	Defines the number of seconds after which the IP address is removed from the blacklist.	enable IPAvoidance is true
binary Equivalent Content	boolean	Synchronizes content between the primary and backup origins, byte for byte.	
monitorOrigin Responsiveness	boolean	Enables continuous monitoring of connectivity to the origin. If necessary, applies retry or recovery actions.	
origin Responsiveness Timeout	enum	The timeout threshold that triggers a retry or recovery action.	monitorOrigin Responsiveness is true
	AGGRESSIVE	A 2 second threshold.	
	MODERATE	3 seconds.	
	CONSERVATIVE	4 seconds.	
	USER_ SPECIFIED	Specify your own timeout.	
origin Responsiveness CustomTimeout	number	Specify a custom timeout, from 1 to 10 seconds.	origin Responsiveness Timeout is USER_ SPECIFIED
origin Responsiveness EnableRetry	boolean	If a specific failure condition applies, attempts a retry on the same origin before executing the recovery method.	monitorOrigin Responsiveness is true
origin Responsiveness EnableRecovery	boolean	Enables a recovery action for a specific failure condition.	monitorOrigin Responsiveness is true
origin Responsiveness RecoveryConfig Name	string	Specifies a recovery configuration using the <code>configName</code> you defined in the <a href="#">recoveryConfig</a> match criteria. Specify 3 to 20 alphanumeric characters or dashes. Ensure that you use the <a href="#">recoveryConfig</a> match criteria to apply this option.	origin Responsiveness EnableRecovery is true
monitorStatus Codes1	boolean	Enables continuous monitoring for the specific origin status codes that trigger retry or recovery actions.	
monitor Response Codes1	string array	Defines the origin response codes that trigger a subsequent retry or recovery action. Specify a single code entry ( 501 ) or a range ( 501:504 ). If you configure other <code>monitorStatusCodes*</code> and <code>monitorResponseCodes*</code> options, you can't use the same codes here.	monitorStatus Codes1 is true

Option	Type	Description	Requires
monitorStatusCodes1EnableRetry	boolean	When the defined response codes apply, attempts a retry on the same origin before executing the recovery method.	monitorStatusCodes1 is true
monitorStatusCodes1EnableRecovery	boolean	Enables the recovery action for the response codes you define.	monitorStatusCodes1 is true
monitorStatusCodes1RecoveryConfigName	string	Specifies a recovery configuration using the configName you defined in the <a href="#">recoveryConfig</a> match criteria. Specify 3 to 20 alphanumeric characters or dashes. Ensure that you use the <a href="#">recoveryConfig</a> match criteria to apply this option.	monitorStatusCodes1EnableRecovery is true
monitorStatusCodes2	boolean	Enables continuous monitoring for the specific origin status codes that trigger retry or recovery actions.	
monitorResponseCodes2	string array	Defines the origin response codes that trigger a subsequent retry or recovery action. Specify a single code entry ( 501 ) or a range ( 501:504 ). If you configure other monitorStatusCodes* and monitorResponseCodes* options, you can't use the same codes here.	monitorStatusCodes2 is true
monitorStatusCodes2EnableRetry	boolean	When the defined response codes apply, attempts a retry on the same origin before executing the recovery method.	monitorStatusCodes2 is true
monitorStatusCodes2EnableRecovery	boolean	Enables the recovery action for the response codes you define.	monitorStatusCodes2 is true
monitorStatusCodes2RecoveryConfigName	string	Specifies a recovery configuration using the configName you defined in the <a href="#">recoveryConfig</a> match criteria. Specify 3 to 20 alphanumeric characters or dashes. Ensure that you use the <a href="#">recoveryConfig</a> match criteria to apply this option.	monitorStatusCodes2EnableRecovery is true
monitorStatusCodes3	boolean	Enables continuous monitoring for the specific origin status codes that trigger retry or recovery actions.	
monitorResponseCodes3	string array	Defines the origin response codes that trigger a subsequent retry or recovery action. Specify a single code entry ( 501 ) or a range ( 501:504 ). If you configure other monitorStatusCodes* and monitorResponseCodes* options, you can't use the same codes here..	monitorStatusCodes3 is true
monitorStatusCodes3EnableRetry	boolean	When the defined response codes apply, attempts a retry on the same origin before executing the recovery method.	monitorStatusCodes3 is true
monitorStatusCodes3EnableRecovery	boolean	Enables the recovery action for the response codes you define.	monitorStatusCodes3 is true
monitorStatusCodes3RecoveryConfigName	string	Specifies a recovery configuration using the configName you defined in the <a href="#">recoveryConfig</a> match criteria. Specify 3 to 20 alphanumeric characters or dashes. Ensure that you use the <a href="#">recoveryConfig</a> match criteria to apply this option.	monitorStatusCodes3EnableRecovery is true

## originIpAcl

- **Property Manager name:** [Origin IP Access Control List](#) <sup>\*)</sup>



- **Behavior version:** The `v2021-09-22` rule format supports the `originIpAcl` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Origin IP Access Control List limits the traffic to your origin. It only allows requests from specific edge servers that are configured as part of a supernet defined by CIDR blocks.

Option	Type	Description
<code>enable</code>	boolean	Enables the Origin IP Access Control List behavior.

## persistentClientConnection

- **Property Manager name:** [Persistent Connections: Client to Edge](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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
<code>enabled</code>	boolean	Enables the persistent connections behavior.
<code>timeout</code>	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 `v2021-09-22` 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
<code>enabled</code>	boolean	Enables persistent connections.
<code>timeout</code>	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 `v2021-09-22` rule format supports the `personallyIdentifiableInformation` behavior v1.2.
- **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
<code>enabled</code>	boolean	When enabled, marks content as personally identifiable information (PII).

## phasedRelease

- **Property Manager name:** [Phased Release Cloudlet](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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.	
population Expiration Date	string (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 Cookie Type is FIXED_DATE
population Duration	string (duration)	Sets the lifetime of the cookie from the initial request. Subsequent requests re-evaluate based on current membership settings.	population Cookie Type is DURATION
population Refresh	boolean	Enabling this option resets the original duration of the cookie if the browser refreshes before the cookie expires.	population Cookie Type is DURATION
failover Enabled	boolean	Allows failure responses at the origin defined by the Cloudlet to fail over to the prevailing origin defined by the property.	
failover Response Code	string array	Defines the set of failure codes that initiate the failover response.	failover Enabled is true
failover 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 Enabled is true

## preconnect

- **Property Manager name:** [Manual Preconnect](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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
<code>preconnectlist</code>	string array	Specifies the set of hostnames to which to preconnect over HTTP2.

## predictiveContentDelivery

- **Property Manager name:** [Predictive Content Delivery](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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 `segmentedMediaOptimization` 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](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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
enabled	boolean	Enables the predictive prefetching behavior.
accuracy Target	enum	The level of prefetching. A higher level results in better client performance, but potentially greater load on the origin.
	LOW	Low.
	MEDIUM	Medium.
	HIGH	High.


## prefetch

- **Property Manager name:** [Prefetch Objects](#) 
- **Behavior version:** The v2021-09-22 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
enabled	boolean	Applies prefetching behavior when enabled.

## prefetchable

- **Property Manager name:** [Prefetchable Objects](#) 
- **Behavior version:** The v2021-09-22 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

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- **Property Manager name:** [Cache Prefreshing](#) <sup>✎</sup>
  - **Behavior version:** The `v2021-09-22` rule format supports the `prefreshCache` behavior v1.2.
  - **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 prefresh behavior enabled. The edge does not serve stale content.

Option	Type	Description
<code>enabled</code>	boolean	Enables the cache prefreshing behavior.
<code>prefreshval</code>	number (0-99)	Specifies when the prefresh 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.

## rmaOptimization

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**Property Manager name:** [RMA Optimizations](#)

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

This behavior does not include any options. Specifying the behavior itself enables it.

## quicBeta


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- **Property Manager name:** [QUIC Support \(Beta\)](#) <sup>✎</sup>
  - **Behavior version:** The `v2021-09-22` 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 `v2021-09-22` 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 `v2021-09-22` 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
<code>enabled</code>	boolean	Enables API Gateway for the current set of content.

## readTimeout

- **Property Manager name:** [Read Timeout](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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 \(RUM\)](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 rule format supports the redirect behavior v1.5.
- **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 Default 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 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 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 Hostname Subdomain	string (allows <a href="#">variables</a> )	Specifies a subdomain to prepend to the current hostname. For example, a value of <code>m</code> changes <code>www.example.com</code> to <code>m.www.example.com</code> .	<code>destination Hostname</code> is SUBDOMAIN
destination Hostname Sibling	string (allows <a href="#">variables</a> )	Specifies the subdomain with which to replace to the current hostname's leftmost subdomain. For example, a value of <code>m</code> changes <code>www.example.com</code> to <code>m.example.com</code> .	<code>destination Hostname</code> is SIBLING
destination Hostname Other	string (allows <a href="#">variables</a> )	Specifies the full hostname with which to replace the current hostname.	<code>destination Hostname</code> is OTHER
destination 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.	

Option	Type	Description	Requires
destination PathPrefix	string (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> .	destination Path is <code>PREFIX_REQUEST</code>
destination PathSuffix Status	enum	When <code>destinationPath</code> is set to <code>PREFIX_REQUEST</code> , this gives you the option of adding a suffix.	destination Path 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.	
destination PathSuffix	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.	destination PathSuffix Status is <code>SUFFIX</code>
destination PathOther	string (allows <a href="#">variables</a> )	When <code>destinationPath</code> is set to <code>PREFIX_REQUEST</code> , this replaces the current path.	destination Path is <code>OTHER</code>
query String	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> .	
response Code	enum	Specify the redirect's response code.	
		<b>Supported values:</b> <code>301</code> <code>302</code> <code>303</code> <code>307</code>	

## redirectplus

- **Property Manager name:** [Redirect Plus](#)<sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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
<code>enabled</code>	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> .
response Code	enum	Assigns the status code for the redirect response.

Option	Type	Description
		<b>Supported values:</b> 301      302      303      307

## referrerChecking

- **Property Manager name:** [Legacy Referrer Checking](#)
- **Behavior version:** The v2021-09-22 rule format supports the referrerChecking 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 referrer-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 v2021-09-22 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](#)<sup>\*</sup>
- **Behavior version:** The v2021-09-22 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
enabled	boolean	When enabled, removes the Vary header to ensure objects can be cached.

## report

- **Property Manager name:** [Log Request Details](#)<sup>\*</sup>
- **Behavior version:** The v2021-09-22 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	Requires
logHost	boolean	Log the Host header.	
logReferer	boolean	Log the Referer header.	
logUserAgent	boolean	Log the User-Agent header.	
logAcceptLanguage	boolean	Log the Accept-Language header.	
logCookies	enum	Specifies the set of cookies to log.	
	OFF	Do not log cookies.	
	ALL	Log all cookies.	
	SOME	A specific set of cookies .	

Option	Type	Description	Requires
cookies	string array	This specifies the set of cookies names whose values you want to log.	log Cookies is SOME
log Custom LogField	boolean	Whether to append additional custom data to each log line.	
custom LogField	string (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, round-trip: {{builtin.AK_CLIENT_TURNAROUND_TIME}}ms 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 customLogField option.	logCustom LogField is true

## requestControl

- **Property Manager name:** [Request Control Cloudlet](#)
- **Behavior version:** The v2021-09-22 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](#), or use the [Cloudlets API](#) 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.	
cloudlet Policy.name	string	The Cloudlet's descriptive name.	
enable Branded403	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> 200 302 403 503	
netStorage	object	Specifies the NetStorage domain that contains the branded 403 page.	enableBranded403 is true AND branded403Status Code is not 302
netStorage.cp CodeList	array	A set of CP codes that apply to this storage group.	

Option	Type	Description	Requires
netStorage.downloadDomainName	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.uploadDomainName	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 AND branded403StatusCode is not 302
branded403Url	string	Specifies the redirect URL for the branded deny action.	enableBranded403 is true AND branded403StatusCode is 302
brandedDenyCacheTtl	number (5-30)	Specifies the branded response page's time to live in the cache, 5 minutes by default.	enableBranded403 is true AND branded403StatusCode is not 302

## requestTypeMarker

- **Property Manager name:** [Request Type Marker](#)
- **Behavior version:** The v2021-09-22 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](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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
<code>enabled</code>	boolean	Enables the Resource Optimizer feature.

## resourceOptimizerExtendedCompatibility

- **Property Manager name:** [Resource Optimizer Extended Compatibility](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` rule format supports the `resourceOptimizerExtendedCompatibility` 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
<code>enabled</code>	boolean	Enables the Resource Optimizer feature.
<code>enableAllFeatures</code>	boolean	Enables the full set of Resource Optimizer feature.

## responseCode

- **Property Manager name:** [Set Response Code](#) <sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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	<a href="#">Requires</a>
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Option	Type	Description	Requires
statusCode	enum	The HTTP status code to replace the existing one.	
		<b>Supported values:</b>  100 103 201 204 207 301 304 307 401 404 407 410 413 101 122 202 205 226 302 305 308 402 405 408 411 414 102 200 203 206 300 303 306 400 403 406 409 412 415	
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

## responseCookie

- **Property Manager name:** [Set Response Cookie](#)
- **Behavior version:** The v2021-09-22 rule format supports the responseCookie behavior v1.3.
- **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	Requires
cookie Name	string (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 (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 (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
path	string (allows <a href="#">variables</a> )	If the defaultPath is disabled, sets the path component for which the cookie is valid.	default Path is false
expires	enum	Sets various ways to specify when the cookie expires.	



Option	Type	Description	Requires
	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.	
<code>expirationDate</code>	string (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>
<code>duration</code>	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>
<code>sameSite</code>	enum	This option controls the <code>SameSite</code> cookie attribute that reduces the risk of cross-site request forgery attacks.	
	DEFAULT	Send the <code>SameSite</code> cookie attribute.	
	NONE	Send the cookie in all contexts if the <code>secure</code> option is enabled.	
	LAX	Send the cookie also when the user navigates to a URL from an external site.	
	STRICT	Send the cookie only to the same site that originated it.	
<code>secure</code>	boolean	When enabled, sets the cookie's <code>Secure</code> flag to transmit it with HTTPS.	
<code>httpOnly</code>	boolean	When enabled, includes the <code>HttpOnly</code> attribute in the <code>Set-Cookie</code> response header to mitigate the risk of client-side scripts accessing the protected cookie, if the browser supports it.	


## restrictObjectCaching

- **Property Manager name:** [Object Caching](#) <sup>✎</sup>
- **Behavior version:** The `v2021-09-22` 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.

## returnCacheStatus

- **Property Manager name:** [Return Cache Status](#) 
- **Behavior version:** The v2021-09-22 rule format supports the `returnCacheStatus` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Generates a response header with information about cache status. Among other things, this can tell you whether the response came from the Akamai cache, or from the origin. Status values report with either of these forms of syntax, depending for example on whether you're deploying traffic using [sureRoute](#) or [tieredDistribution](#) :


```
{status} from child
{status} from child, {status} from parent
```

The `status` value can be any of the following:

- **Hit** - the object was retrieved from Akamai's cache.
- **Miss** - the object was not found in the Akamai cache.
- **RefreshHit** - the object was found in Akamai's cache, but was stale, so an If-Modified-Since request was made to the customer origin, with 304 as the response code, indicating unmodified content.
- **HitStale** - the object was found in Akamai's cache and was stale, but a more recent object was not available from the customer origin, so the cache served the stale object to the client.
- **Constructed** - the [constructResponse](#) behavior directly specified the response to the client.
- **Redirect** - the Akamai edge configuration specified a redirect, typically by executing the [redirect](#) , [redirectPlus](#) , or [edgeRedirector](#) behaviors.
- **Error** - an error occurred, typically when authorization is denied or the request is rejected by WAF.

Option	Type	Description
<code>responseHeaderName</code>	string	Specifies the name of the HTTP header in which to report the cache status value.

## rewriteUrl

- **Property Manager name:** [Modify Outgoing Request Path](#) 
- **Behavior version:** The v2021-09-22 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	<a href="#">Requires</a>
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\\.(png gif jpe?g)</code> and <code>brand\\\$1</code> changes <code>logo.png</code> to <code>brand.png</code> .	
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 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 Regex	string (allows <a href="#">variables</a> )	When <code>behavior</code> is set to <code>REGEX_REPLACE</code> , this replaces whatever the <code>matchRegex</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 Path	string (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 Path Prepend	string (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 Url	string (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 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 Query String	boolean	When enabled, retains the original path's query parameters.	<code>behavior</code> is not <code>REWRITE</code>


## rmaOptimization

- **Property Manager name:** [RMA Optimizations \(RMA\)](#) <sup>43</sup>
- **Behavior version:** The `v2021-09-22` 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.

## rumCustom

- **Property Manager name:** [RUM SampleRate](#) 
- **Behavior version:** The v2021-09-22 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
rumSampleRate	number (0-100)	Specifies the percentage of web traffic to include in your RUM report.
rumGroupName	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.


## standardTLSMigrationOverride

**Property Manager name:** [Standard TLS Migration Override](#)

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 does not include any options. Specifying the behavior itself enables it.

## saasDefinitions

- **Property Manager name:** [SaaS Definitions](#) 
- **Behavior version:** The v2021-09-22 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	Requires
<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>

Option	Type	Description	Requires
application Query String	string	This names the query parameter that identifies the application.	applicationAction is QUERY_STRING
application Regex	string	Specifies a Perl-compatible regular expression with which to substitute the request's application ID.	applicationAction is either: HOSTNAME , PATH , COOKIE , QUERY_STRING
application Replace	string	Specifies a string to replace the request's application ID matched by applicationRegex .	applicationAction is either: HOSTNAME , PATH , COOKIE , QUERY_STRING
users Action	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.	
users Cname Enabled	boolean	Enabling this allows you to identify users using a CNAME chain rather than a single hostname.	usersAction is HOSTNAME
users Cname Level	number	Specifies the number of CNAMEs to use in the chain.	usersCnameEnabled is true
users Cookie	string	This specifies the name of the cookie that identifies the user.	usersAction is COOKIE
usersQuery String	string	This names the query parameter that identifies the user.	usersAction is QUERY_STRING
users Regex	string	Specifies a Perl-compatible regular expression with which to substitute the request's user ID.	usersAction is either: HOSTNAME , PATH , COOKIE , QUERY_STRING
users Replace	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 v2021-09-22 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
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Option	Type	Description	<a href="#">Requires</a>
enabled	boolean	Enables the Akamai Connector for Salesforce Commerce Cloud.	
connector id	string (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 <code>production</code> or <code>development</code> , <i>realm</i> is your Salesforce Commerce Cloud service <code>\$REALM</code> 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.	
origin Type	enum	Specifies where the origin is.	
	DEFAULT	Use a default Salesforce origin.	
	CUSTOMER	Customize the origin.	
sf3cOrigin Host	string (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 <code>Host</code> header is defined.	
	DEFAULT	Use the default Salesforce header.	
	CUSTOMER	Customize the header.	
sf3cOrigin Host Header	string (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<sup>\\*</sup>](#)
- **Behavior version:** The `v2021-09-22` 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 v2021-09-22 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](#)
- **Behavior version:** The v2021-09-22 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.

## spdy

**Property Manager name:** [SPDY](#)

Applies the SPDY protocol, which enhances HTTPS traffic by using many concurrent connections to download objects within one TCP connection. You can only apply this behavior within a



`hostname` match, and if the property is marked as secure. See [Secure property requirements](#) for guidance.

This behavior does not include any options. Specifying the behavior itself enables it.

## scheduleInvalidation

- **Property Manager name:** [Scheduled Invalidation](#)<sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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	Requires
<code>start</code>	string (timestamp)	The UTC date and time when matching cached content is to expire.	
<code>repeat</code>	boolean	When enabled, invalidation recurs periodically from the <code>start</code> time based on the <code>repeatInterval</code> time.	
<code>repeatInterval</code>	string (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 86400 seconds invalidates content once a day. Repeating intervals of less than 5 minutes are not allowed for <a href="#">NetStorage</a> <sup>↗</sup> origins.	<code>repeat</code> is <code>true</code>
<code>refreshMethod</code>	enum	Specifies how to invalidate the content.	
	<code>INVALIDATE</code>	Sends an <code>If-Modified-Since</code> request to the origin, re-caching the content only if it is fresher.	
	<code>PURGE</code>	Re-caches content regardless of its freshness, potentially creating more traffic at the origin.	

## scriptManagement


- **Property Manager name:** [Script Management](#)<sup>↗</sup>
- **Behavior version:** The `v2021-09-22` 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.	
	<code>YES_SERVICE_WORKER</code>	Configure additional script actions, and to activate policies.	
	<code>NO_SERVICE_WORKER</code>	Only view script insights.	
timestamp	number	A read-only epoch timestamp value used for synchronization.	enabled is never visible

## segmentedContentProtection

- **Property Manager name:** [Segmented Media Protection](#) 
- **Behavior version:** The `v2021-09-22` rule format supports the `segmentedContentProtection` behavior v1.9.
- **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	Requires
enabled	boolean	Enables the segmented content protection behavior.	
key	object array	Specifies the encryption key to use as a shared secret to validate tokens.	
use Advanced	boolean	Allows you to specify advanced <code>transitionKey</code> and <code>salt</code> options.	
transition Key	object array	An alternate encryption key to match along with the <code>key</code> field, allowing you to rotate keys with no down time.	use Advanced is true
salt	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.	use Advanced is true

Option	Type	Description	Requires
headerForSalt	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.	use Advanced is true
sessionId	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.	use Advanced is true
dataPayload	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.	use Advanced is true
ip	boolean	Enabling this restricts content access to a specific IP address, only appropriate if it does not change during the playback session.	use Advanced is true
acl	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.	use Advanced is true
enableTokenInURI	boolean	When enabled, passes tokens in HLS variant manifest URLs and HLS segment URLs, as an alternative to cookies.	
hlsMasterManifestFiles	string array	Specifies the set of filenames that form HLS master manifest URLs. You can use <code>*</code> wildcard characters, but make sure to specify master manifest filenames uniquely, to distinguish them from variant manifest files.	enableTokenInURI is true
tokenRevocationEnabled	boolean	Enable this to deny requests from playback URLs that contain a <code>TokenAuth</code> token that uses specific token identifiers.	
revokedListId	string	Identifies the <code>TokenAuth</code> tokens to block from accessing your content.	tokenRevocationEnabled 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 v2021-09-22 rule format supports the segmentedMediaOptimization behavior v1.3.
- **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="#">NetStorage</a> origins.	
	LIVE	Media is streaming live.	
enableULL Streaming	boolean	Enables ultra low latency (ULL) streaming. ULL reduces latency and decreases overall transfer time of live streams.	behavior is LIVE
show Advanced	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.	
	UNKNOWN	An unknown DVR.	
dvr Window	string (duration)	Set the duration for your media, or 0m if a DVR is not required.	showAdvanced is true AND dvrType is CONFIGURABLE

## segmentedMediaStreamingPrefetch

- **Property Manager name:** [Segmented Media Streaming - Prefetch](#)
- **Behavior version:** The v2021-09-22 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
<code>enabled</code>	boolean	Enables media stream prefetching.

## setVariable

- **Property Manager name:** [Set Variable](#)
- **Behavior version:** The `v2021-09-22` 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
<code>variableName</code>	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> .	
<code>valueSource</code>	enum	Determines how you want to set the value.	
	<code>EXPRESSION</code>	Specify your own string expression.	
	<code>EXTRACT</code>	Extract it from another value.	
	<code>GENERATE</code>	Generate the value.	
<code>variableValue</code>	string (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.	<code>valueSource</code> is <code>EXPRESSION</code>
<code>extractLocation</code>	enum	This specifies from where to get the value.	<code>valueSource</code> is <code>EXTRACT</code>
	<code>CLIENT_CERTIFICATE</code>	Client certificate.	
	<code>CLIENT_REQUEST_HEADER</code>	Client request header.	
	<code>COOKIE</code>	Cookie.	

Option	Type	Description	<a href="#">Requires</a>
	EDGESCAPE	For location or network data.	
	PATH_COMPONENT_OFFSET	Substring within the URL path.	
	QUERY_STRING	A query parameter.	
	DEVICE_PROFILE	For client device attributes.	
	RESPONSE_HEADER	A response header.	
	SET_COOKIE	Cookie.	
certificate FieldName	enum	Specifies the certificate's content.	extractLocation is CLIENT_ CERTIFICATE
	VERSION	The certificate's X509 version number.	
	SERIAL	The serial number, expressed in hex.	
	FINGERPRINT_MD5	The hex-encoded MD5 fingerprint.	
	FINGERPRINT_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_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_NO_LABELS	Same as CONTENTS_PEM , but not including the certificate's header and footer.	
	COUNT	The number of client certificates received.	
	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

Option	Type	Description	Requires
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
	HEXRAND	A random hex sequence.	
	RAND	A random number.	
numberOf Bytes	number (1-16)	Specifies the number of random hex bytes to generate.	generator is HEXRAND
minRandom Number	string (allows variables)	Specifies the lower bound of the random number.	generator is RAND
maxRandom Number	string (allows variables)	Specifies the upper bound of the random number.	generator is RAND

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



Option	Type	Description	<a href="#">Requires</a>
	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 (allows <a href="#">variables</a> )	Specifies an additional operand when the transform function is set to various arithmetic functions ( ADD , SUBTRACT , MULTIPLY , DIVIDE , or MODULO ) or bitwise functions ( BITWISE_AND , BITWISE_OR , or BITWISE_XOR ).	transform is either: ADD , BITWISE_AND , BITWISE_OR , BITWISE_XOR , DIVIDE , MODULO , MULTIPLY , SUBTRACT
algorithm	enum	Specifies the algorithm to apply.	transform is either: ENCRYPT , DECRYPT
	ALG_3DES	Triple DES.	
	ALG_AES128	Advanced Encryption Standard, 128 bits.	
	ALG_AES256	Advanced Encryption Standard, 256 bits.	
encryption Key	string (allows <a href="#">variables</a> )	Specifies the encryption hex key. For ALG_3DES it needs to be 48 characters long, 32 characters for ALG_AES128 , and 64 characters for ALG_AES256 .	transform is either: ENCRYPT , DECRYPT
initialization Vector	string	Specifies a one-time number as an initialization vector. It needs to be 15 characters long for ALG_3DES , and 32 characters for both ALG_AES128 and ALG_AES256 .	transform is either: ENCRYPT , DECRYPT
encryption Mode	enum	Specifies the encryption mode.	transform is either: ENCRYPT , DECRYPT
	CBC	Cipher Block Chaining.	
	ECB	Electronic Codebook.	
nonce	string (allows <a href="#">variables</a> )	Specifies the one-time number used for encryption.	transform is either: ENCRYPT , DECRYPT
prepend Bytes	boolean	Specifies a number of random bytes to prepend to the key.	transform is either: ENCRYPT , DECRYPT
formatString	string	Specifies an optional format string for the conversion, using format codes such as %m/%d/%y as specified by <a href="#">strftime</a> <sup>1</sup> . A blank value defaults to RFC-2616 format.	transform is either: EPOCH_TO_STRING , STRING_TO_EPOCH

Option	Type	Description	Requires
paramName	string (allows <a href="#">variables</a> )	Extracts the value for the specified parameter name from a string that contains key/value pairs. (Use separator below to parse them.)	transform is EXTRACT_PARAM
separator	string	Specifies the character that separates pairs of values within the string.	transform is EXTRACT_PARAM
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 (allows <a href="#">variables</a> )	Specifies the secret to use in generating the base64-encoded digest.	transform is HMAC
hmac 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 (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 (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 Sensitive	boolean	Enabling this makes all matches case sensitive.	transform is either: EXTRACT_PARAM , SUBSTITUTE
global 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

Option	Type	Description	Requires
device 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> .	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.	
	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.	

## shutr

- **Property Manager name:** [SHUTR](#)
- **Behavior version:** The v2021-09-22 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.

## simulateErrorCode

- **Property Manager name:** [Simulate Error Response Code](#)<sup>¶</sup>
- **Behavior version:** The v2021-09-22 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	<a href="#">Requires</a>
<code>errorType</code>	enum	Specifies the type of error.	
		<b>Supported values:</b>  ERR_CONNECT_FAIL ERR_CONNECT_TIMEOUT ERR_DNS_FAIL ERR_DNS_IN_REGION ERR_DNS_TIMEOUT ERR_NO_GOOD_FWD_IP ERR_READ_ERROR ERR_READ_TIMEOUT ERR_SUREROUTE_DNS_FAIL ERR_WRITE_ERROR	
<code>timeout</code>	string (duration)	When the <code>errorType</code> is <code>ERR_CONNECT_TIMEOUT</code> , <code>ERR_DNS_TIMEOUT</code> , <code>ERR_SUREROUTE_DNS_FAIL</code> , or <code>ERR_READ_TIMEOUT</code> , generates an error after the specified amount of time from the initial request.	<code>errorType</code> is either: <code>ERR_DNS_TIMEOUT</code> , <code>ERR_SUREROUTE_DNS_FAIL</code> , <code>ERR_READ_TIMEOUT</code> , or <code>ERR_CONNECT_TIMEOUT</code>


## siteShield

- **Property Manager name:** [SiteShield](#)<sup>¶</sup>
- **Behavior version:** The v2021-09-22 rule format supports the `siteShield` behavior v1.3.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

This behavior implements the [Site Shield](#)<sup>¶</sup> 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 <code>value</code> key that references the hostname, for example: <code>"ssmap": {"value":"ss.akamai.net"} .</code>

## standardTLSMigration

- **Property Manager name:** [Standard TLS Migration](#) 
- **Behavior version:** The `v2021-09-22` 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
enabled	boolean	Allows migration to Standard TLS.	
migrationFrom	enum	What kind of traffic you're migrating from.	
	SHARED_CERT	A shared certificate.	
	NON_SECURE	Non-secure traffic.	
	ENHANCED_SECURE	Enhanced Secure TLS.	
allow HTTPSUpgrade	boolean	Allows temporary upgrade of HTTP traffic to HTTPS.	migrationFrom is NON_SECURE
allow HTTPSDowngrade	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.	migrationFrom is NON_SECURE
migrationStart Time	string (epoch timestamp)	Specifies when to start migrating the cache.	allow HTTPSUpgrade is true OR allow HTTPSDowngrade is true
migration Duration	number	Specifies the number of days to migrate the cache.	allow HTTPSUpgrade is true OR allow HTTPSDowngrade is true
cacheSharing StartTime	string (epoch timestamp)	Specifies when to start cache sharing.	migrationFrom is ENHANCED_ SECURE
cacheSharing Duration	number	Specifies the number cache sharing days.	migrationFrom is ENHANCED_ SECURE

Option	Type	Description	Requires
isCertificateSNIOnly	boolean	Sets whether your new certificate is SNI-only.	migrationFrom is ENHANCED_SECURE
isTieredDistributionUsed	boolean	Allows you to align traffic to various <a href="#">tieredDistribution</a> areas.	migrationFrom is NON_SECURE
tdLocation	enum	Specifies the <a href="#">tieredDistribution</a> location.	isTieredDistributionUsed is true
	GLOBAL	Global.	
	APAC	Asia and Pacific.	
	EUROPE	Europe.	
	US_EAST	Eastern United States.	
	US_CENTRAL	Central United States.	
	US_WEST	Western United States.	
	AUSTRALIA	Australia.	
	GLOBAL_LEGACY	Global.	

## standardTLSMigrationOverride

- **Property Manager name:** [Standard TLS Migration Override](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 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.

## subCustomer

- **Property Manager name:** [Subcustomer Enablement](#) <sup>↗</sup>
- **Behavior version:** The v2021-09-22 rule format supports the `subCustomer` behavior v1.6.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

When positioned in a property's top-level default rule, enables various [Cloud Embed](#) 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](#) (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	Requires
enabled	boolean	Allows Cloud Embed to dynamically modify your subcustomers' content.	
origin	boolean	Allows you to assign origin hostnames for customers.	
partner 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 <code>suffix.example.com</code> , then to purge <code>subcustomer.com/some/path</code> , specify <code>subcustomer.com.suffix.example.com/some/path</code> as the purge request's URL.	origin is 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 Content	boolean	Allows you to reschedule when content validates for subcustomers.	
modifyPath	boolean	Modifies a subcustomer's request path.	
cacheKey	boolean	Allows you to set which query parameters are included in the cache key.	
token 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 Compressor	boolean	Allows compression of subcustomer content.	
access 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 Content	boolean	Allows you to apply the <a href="#">dynamicWebContent</a> behavior to further modify how dynamic content behaves for subcustomers.	
onDemand Video Delivery	boolean	Enables delivery of media assets to subcustomers.	
largeFile Delivery	boolean	Enables large file delivery for subcustomers.	
web Application Firewall	boolean	Web application firewall (WAF) filters, monitors, and blocks certain HTTP traffic. Use <a href="#">Akamai Cloud Embed</a> to add a specific behavior to a subcustomer policy and configure how WAF protection is applied.	

# sureRoute

- **Property Manager name:** [SureRoute](#)<sup>\*</sup>
- **Behavior version:** The `v2021-09-22` 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
<code>enabled</code>	boolean	Enables the SureRoute behavior, to optimize delivery of non-cached content.	
<code>type</code>	enum	Specifies the set of edge servers used to test routes.	
	<code>PERFORMANCE</code>	Use the default set of edge servers.	
	<code>CUSTOM_MAP</code>	A custom map that you need to get from Akamai Professional Services.	
<code>custom Map</code>	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>
<code>test Object Url</code>	string	<p>Specifies the path and filename for your origin's test object to use in races to test routes.</p> <p>Akamai provides sample test objects for the <a href="#">Dynamic Site Accelerator</a><sup>↗</sup> 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 <code>200</code> HTTP response and does not require authentication. The file should be an average-sized static HTML file ( <code>Content-Type: text/html</code> ) that is no smaller than 8KB, with no back-end processing.</p> <p>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.</p>	
<code>toHost Status</code>	enum	Specifies which hostname to use.	
	<code>INCOMING_HH</code>	Use the incoming <code>Host</code> header when requesting the SureRoute test object.	
	<code>OTHER</code>	Use <code>toHost</code> to specify a custom <code>Host</code> header.	
<code>toHost</code>	string	If <code>toHostStatus</code> is <code>OTHER</code> , this specifies the custom <code>Host</code> header to use when requesting the SureRoute test object.	<code>toHost Status</code> is <code>OTHER</code>
<code>raceStat Ttl</code>	string (duration)	Specifies the time-to-live to preserve SureRoute race results, typically <code>30m</code> . 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.	



Option	Type	Description	Requires
forceSsl 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 Custom Key	boolean	When disabled, caches race results under the race destination's hostname. If enabled, use <code>customStatKey</code> to specify a custom hostname.	
custom 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 Custom Key is true

## tcpOptimization

- **Property Manager name:** [TCP Optimizations](#) <sup>✎</sup>
- **Behavior version:** The `v2021-09-22` 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.

## teaLeaf

- **Property Manager name:** [IBM Tealeaf Connector](#) <sup>✎</sup>
- **Behavior version:** The `v2021-09-22` 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.
limitTo Dynamic	boolean	Limit traffic to dynamic, uncached ( No-Store ) content.

Option	Type	Description
ibmCustomerId	number	The integer identifier for the IBM Tealeaf Connector account.

## tieredDistribution

- **Property Manager name:** [Tiered Distribution](#) <sup>🔗</sup>
- **Behavior version:** The v2021-09-22 rule format supports the `tieredDistribution` behavior v1.3.
- **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
enabled	boolean	When enabled, activates tiered distribution.	
tiered Distribution Map	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.	is_secure is false in top-level rule
	CH2	A global map.	
	CHAPAC	China and the Asian Pacific area.	
	CHEU2	Europe.	
	CHEUS2	Eastern United States.	
	CHCUS2	Central United States.	
	CHWUS2	Western United States.	
	CH AUS	Australia.	
	CH	A global map.	

## tieredDistributionAdvanced

- **Property Manager name:** [Tiered Distribution \(Advanced\)](#) <sup>🔗</sup>

- **Behavior version:** The `v2021-09-22` 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 [tiered Distribution](#) .

Option	Type	Description
<code>enabled</code>	boolean	When enabled, activates tiered distribution.
<code>tiered Distribution Map</code>	string	Optionally map the tiered parent server's location close to your origin: <code>CHEU2</code> for Europe; <code>CHAU2</code> for Australia; <code>CHAPAC</code> for China and the Asian Pacific area; <code>CHWUS2</code> , <code>CHCUS2</code> , and <code>CHEUS2</code> for different parts of the United States. Choose <code>CH</code> or <code>CH2</code> 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.

## tieredDistributionCustomization

- **Property Manager name:** [Tiered Distribution Customization](#) <sup>TM</sup>
- **Behavior version:** The `v2021-09-22` rule format supports the `tieredDistributionCustomization` behavior v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-only](#)

With Tiered Distribution, Akamai edge servers retrieve cached content from other Akamai servers, rather than directly from the origin. This behavior sets custom Tiered Distribution maps (TD0) and migrates TD1 maps configured with [advanced features](#) to Cloud Wrapper. You need to enable [cloudWrapper](#) within the same rule.

Option	Type	Description	Requires
<code>custom Map Enabled</code>	boolean	Enables custom maps.	
<code>custom Map Name</code>	string (allows <a href="#">variables</a> )	Specifies the custom map name.	<code>custom Map Enabled</code> is true
<code>serial Start</code>	string	Specifies a numeric serial start value.	<code>custom Map Enabled</code> is true

Option	Type	Description	Requires
serial End	string	Specifies a numeric serial end value. Akamai uses serial numbers to group machines and share objects in their cache with other machines in the same region.	custom Map Enabled is true
hash Algorithm	enum	Specifies the hash algorithm.	custom Map Enabled is true
	GCC	A GCC hash.	
	JENKINS	A Jenkins hash.	
map Migration Enabled	boolean	Enables migration of the custom map to Cloud Wrapper.	
migration StartDate	string (epoch timestamp)	Specifies when to start migrating the map.	map Migration Enabled is true
migration EndDate	string (epoch timestamp)	Specifies when the map migration should end.	map Migration Enabled is true

## timeout

- **Property Manager name:** [Connect Timeout](#)
- **Behavior version:** The v2021-09-22 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](#)
- **Behavior version:** The v2021-09-22 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.	
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> .	
header Name	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 \(ETag\)](#)\*
- **Behavior version:** The v2021-09-22 rule format supports the validateEntityTag behavior v1.2.
- **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](#)
- **Behavior version:** The `v2021-09-22` 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
<code>extractLocation</code>	enum	Specify from where to extract the JWT value.	
	<code>CLIENT_REQUEST_HEADER</code>	The value is in a client request header.	
	<code>QUERY_STRING</code>	The value is in the request's query string.	
<code>headerName</code>	string	This specifies the name of the header from which to extract the JWT value.	<code>extractLocation</code> is <code>CLIENT_REQUEST_HEADER</code>
<code>queryParameterName</code>	string	This specifies the name of the query parameter from which to extract the JWT value.	<code>extractLocation</code> is <code>QUERY_STRING</code>
<code>jwt</code>	string	An identifier for the JWT keys collection.	
<code>enableRS256</code>	boolean	Verifies JWTs signed with the RS256 algorithm. This signature helps ensure that the token hasn't been tampered with.	
<code>enableES256</code>	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 `v2021-09-22` 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 Location	enum	Specifies where to get the JWT value from.	
	CLIENT_REQUEST_HEADER	From the client request header.	
	QUERY_STRING	From the query string.	
	CLIENT_REQUEST_HEADER_AND_QUERY_STRING	From both.	
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.	
extractClientId	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
extractUserName	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 v2021-09-22 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
<code>use Advanced</code>	boolean	If enabled, allows you to specify advanced options such as <code>algorithm</code> , <code>escapeHmacInputs</code> , <code>ignoreQueryString</code> , <code>transitionKey</code> , and <code>salt</code> .	
<code>location</code>	enum	Specifies where to find the token in the incoming request.	
		<b>Supported values:</b> <code>CLIENT_REQUEST_HEADER</code> <code>COOKIE</code> <code>QUERY_STRING</code>	
<code>location Id</code>	string	When <code>location</code> is <code>CLIENT_REQUEST_HEADER</code> , specifies the name of the incoming request's header where to find the token.	
<code>algorithm</code>	enum	Specifies the algorithm that generates the token. It needs to match the method chosen in the token generation code.	<code>use Advanced is true</code>
		<b>Supported values:</b> <code>MD5</code> <code>SHA1</code> <code>SHA256</code>	
<code>escape Hmac Inputs</code>	boolean	URL-escapes HMAC inputs passed in as query parameters.	<code>use Advanced is true</code>
<code>ignore Query String</code>	boolean	Enabling this removes the query string from the URL used to form an encryption key.	<code>use Advanced is true</code>
<code>key</code>	object array	The shared secret used to validate tokens, which needs to match the key used in the token generation code.	
<code>transition Key</code>	object array	Specifies a transition key as a hex value.	<code>use Advanced is true</code>
<code>salt</code>	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.	<code>use Advanced is true</code>
<code>failure Response</code>	boolean	When enabled, sends an HTTP error when an authentication test fails.	

# visitorPrioritization

- **Property Manager name:** [Visitor Prioritization Cloudlet](#) 



- **Behavior version:** The `v2021-09-22` rule format supports the `visitorPrioritization` behavior v3.6.
- **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
<code>enabled</code>	boolean	Enables the Visitor Prioritization behavior.	
<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>userIdentificationByCookie</code>	boolean	When enabled, identifies users by the value of a cookie.	
<code>userIdentificationKeyCookie</code>	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.	<code>userIdentificationByCookie</code> is true
<code>userIdentificationByHeaders</code>	boolean	When enabled, identifies users by the values of GET or POST request headers.	
<code>userIdentificationKeyHeaders</code>	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.	<code>userIdentificationByHeaders</code> is true
<code>userIdentificationByIp</code>	boolean	Allows IP addresses to identify users.	
<code>userIdentificationByParams</code>	boolean	When enabled, identifies users by the values of GET or POST request parameters.	
<code>userIdentificationKeyParams</code>	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.	<code>userIdentificationByParams</code> is true
<code>allowedUserCookieEnabled</code>	boolean	Sets a cookie for users who have been allowed through to the site.	
<code>allowedUserCookieLabel</code>	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.	<code>allowedUserCookieEnabled</code> is true
<code>allowedUserCookieDuration</code>	number (0-600)	Sets the number of seconds for the allowed user's session once allowed through to the site.	<code>allowedUserCookieEnabled</code> is true

Option	Type	Description	Requires
allowedUser 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 Cookie Enabled is true
allowedUser CookieAdvanced	boolean	Sets advanced configuration options for the allowed user's cookie.	allowedUser Cookie Enabled is true
allowedUser CookieAutomatic 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 Cookie Enabled is true AND allowed UserCookie Advanced is true
allowedUser 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 Cookie Enabled is true AND allowed UserCookie Advanced is true AND allowed UserCookie Automatic Salt is false
allowedUser CookieDomain Type	enum	Specify with allowedUserCookieAdvanced enabled.	allowedUser Cookie Enabled is true AND allowed UserCookie Advanced is true
	DYNAMIC	Use the dynamic incoming host header.	
	CUSTOMER	Use a customer-defined cookie domain.	
allowedUser CookieDomain	string	Specifies a domain for an allowed user cookie.	allowedUser Cookie Enabled is true AND allowed UserCookie Advanced is true AND allowed UserCookie DomainType is CUSTOMER
allowedUser 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 Cookie Enabled is true AND allowed UserCookie Advanced is true

Option	Type	Description	Requires
waitingRoom CookieEnabled	boolean	Enables a cookie to track a waiting room assignment.	
waitingRoom CookieShare Label	boolean	Enabling this option shares the same <code>allowedUserCookieLabel</code> string. If disabled, specify a different <code>waitingRoomCookieLabel</code> .	waitingRoom Cookie Enabled is true AND <code>allowedUserCookieEnabled</code> is true
waitingRoom 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 Cookie Enabled is true
waitingRoom 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 Cookie Enabled is true
waitingRoom CookieAdvanced	boolean	When enabled along with <code>waitingRoomCookieEnabled</code> , sets advanced configuration options for the waiting room cookie.	waitingRoom Cookie Enabled is true
waitingRoom CookieAutomatic 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 Cookie Enabled is true AND <code>waitingRoomCookieAdvanced</code> is true
waitingRoom 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 Cookie Enabled is true AND <code>waitingRoomCookieAdvanced</code> is true AND <code>waitingRoomCookieAutomaticSalt</code> is false
waitingRoom CookieDomain 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 Cookie Enabled is true AND <code>waitingRoomCookieAdvanced</code> is true
	DYNAMIC	Use the dynamic incoming host header.	
	CUSTOMER	Use a customer-defined cookie domain.	

Option	Type	Description	<a href="#">Requires</a>
waitingRoom CookieDomain	string	Specifies a domain for the waiting room cookie.	waitingRoom Cookie Enabled is true AND waiting RoomCookie Advanced is true AND waiting RoomCookie DomainType is CUSTOMER
waitingRoom 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 Cookie Enabled is true AND waiting RoomCookie Advanced is true
waitingRoom StatusCode	number	Specifies the response code for requests sent to the waiting room.	
waitingRoomUse CpCode	boolean	Allows you to assign a different CP code that tracks any requests that are sent to the waiting room.	
waitingRoomCp Code	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> .	waitingRoom UseCpCode is true
waitingRoomCp Code.description	string	Additional description for the CP code.	
waitingRoomCp Code.id	integer	Unique identifier for each CP code.	
waitingRoomCp Code.name	string	The name of the CP code.	
waitingRoomCp Code.products	array	The set of products the CP code is assigned to.	
waitingRoomNet Storage	object	Specifies the NetStorage domain for the waiting room page.	
waitingRoomNet Storage.cpCode List	array	A set of CP codes that apply to this storage group.	
waitingRoomNet Storage.download DomainName	string	Domain name from which content can be downloaded.	
waitingRoomNet Storage.id	number	Unique identifier for the storage group.	
waitingRoomNet Storage.name	string	Name of the storage group.	
waitingRoomNet Storage.upload DomainName	string	Domain name used to upload content.	
waitingRoom Directory	string (allows <a href="#">variables</a> )	Specifies the NetStorage directory that contains the static waiting room page, with no trailing slash character.	

Option	Type	Description	Requires
waitingRoom CacheTtl	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 v2021-09-22 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.

## watermarking


- **Property Manager name:** [Watermarking](#)
- **Behavior version:** The v2021-09-22 rule format supports the watermarking behavior v1.1.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Adds watermarking for each valid user's content. Content segments are delivered from different sources using a pattern unique to each user, based on a watermarking token included in each request. If your content is pirated or redistributed, you can forensically analyze the segments to extract the pattern, and identify the user who leaked the content.

Option	Type	Description	Requires
enable	boolean	Enables the watermarking behavior.	
signature Verification Enable	boolean	When enabled, you can verify the signature in your watermarking token.	
verification KeyId1	string	Specifies a unique identifier for the first public key.	signature Verification Enable is true

Option	Type	Description	<a href="#">Requires</a>
verification PublicKey1	string	Specifies the first public key in its entirety.	signature Verification Enable is true
verification KeyId2	string	Specifies a unique identifier for the optional second public key.	signature Verification Enable is true
verification PublicKey2	string	Specifies the optional second public key in its entirety. Specify a second key to enable rotation.	signature Verification Enable is true
pattern Decryption Enable	boolean	If patterns in your watermarking tokens have been encrypted, enabling this allows you to provide values to decrypt them.	
decryption Password Id1	string	Specifies a label that corresponds to the primary password.	pattern Decryption Enable is true
decryption Password1	string	Provides the primary password used to encrypt patterns in your watermarking tokens.	pattern Decryption Enable is true
decryption Password Id2	string	Specifies a label for the secondary password, used in rotation scenarios to identify which password to use for decryption.	pattern Decryption Enable is true
decryption Password2	string	Provides the secondary password you can use to rotate passwords.	pattern Decryption Enable is true
useOriginal AsA	boolean	When you work with your watermarking vendor, you can apply several preprocessing methods to your content. See the <a href="#">AMD help</a> for more information. With the standard <i>filename-prefix AB naming</i> preprocessing method, the watermarking vendor creates two variants of the original segment content and labels them as an <b>A</b> and <b>B</b> segment in the filename. If you selected the <i>unlabeled A variant</i> preprocessing method, enabling this option tells your configuration to use the original filename segment content as your <b>A</b> variant.	
abVariant Location	enum	When you work with your watermarking vendor, you can apply several preprocessing methods to your content. See the <a href="#">AMD help</a> for more information. Use this option to specify the location of the <b>A</b> and <b>B</b> variant segments.	
	FILENAME_ PREFIX	Set for the standard, <i>filename-prefix AB naming</i> preprocessing method, where the variant letter is included in the filename.	
	PARENT_ DIRECTORY_ PREFIX	Set for the <i>directory-prefix AB naming</i> preprocessing method, where variants are located in a subdirectory named after the variants, such as <code>/B/segment1.ts</code> .	


## webApplicationFirewall

- **Property Manager name:** [Web Application Firewall \(WAF\)](#) 
- **Behavior version:** The `v2021-09-22` 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
<code>firewallConfiguration</code>	object	An object featuring details about your firewall configuration.


## webdav

- **Property Manager name:** [WebDAV](#) 
- **Behavior version:** The `v2021-09-22` 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
<code>enabled</code>	boolean	Enables the WebDAV behavior.

## webSockets

- **Property Manager name:** [WebSockets](#) 
- **Behavior version:** The `v2021-09-22` 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.



## v2021-09-22 criteria

### v2021-09-22 criteria

This section provides details for all criteria the Property Manager API supports for the v2021-09-22 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 v2021-09-22 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

- **Property Manager name:** [Image and Video Manager](#)
- **Criteria version:** The v2021-09-22 rule format supports the `advancedImMatch` criteria v1.2.
- **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
match Operator	enum	Specifies the match's logic.
	IS	Matches the selected requests.

Option	Type	Description
	IS_NOT	Does not match the selected requests.
matchOn	enum	Specifies the match's scope.
	ANY_IM	Whether to match any requests that also include generated derivatives.
	PRISTINE	Whether to match only pristine requests on original images or videos from Image and Video Manager.

## bucket

- **Property Manager name:** [Percentage of Clients](#)<sup>\*)</sup>
- **Criteria version:** The v2021-09-22 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 v2021-09-22 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
match Operator	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 ).

Option	Type	Description
	NO_STORE	Content cache is disabled.
	BYPASS_CACHE	Content cache is ignored.
	CACHEABLE	Content cache is enabled.

## chinaCdnRegion

- **Property Manager name:** [ChinaCDN Region](#)
- **Criteria version:** The v2021-09-22 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 IS or IS_NOT deployed over ChinaCDN.
	IS	The request is deployed over ChinaCDN.
	IS_NOT	The request is not deployed over ChinaCDN.

## clientCertificate

- **Property Manager name:** [Client certificate](#)
- **Criteria version:** The v2021-09-22 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	<a href="#">Requires</a>
isCertificate Present	boolean	Executes rule behaviors only if a client certificate authenticates requests.	
isCertificate Valid	enum	Matches whether the certificate is VALID or INVALID . You can also IGNORE the certificate's validity.	isCertificate Present is true
	VALID	Match when the certificate is valid.	
	INVALID	Match when the certificate is invalid.	

Option	Type	Description	Requires
	IGNORE	Ignores the certificate's is valid.	

## clientIp

- **Property Manager name:** [Client IP](#)
- **Criteria version:** The v2021-09-22 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
match Operator	enum	Matches the contents of values if 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	IP or CIDR block, for example: 71.92.0.0/14 .
use Headers	boolean	When connecting via a proxy server as determined by the X-Forwarded-For 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 v2021-09-22 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 IPV4 or IPV6 .
	IPV4	Matches the IPv4 protocol.
	IPV6	Matches the IPv6 protocol.

Option	Type	Description
use XForwarded For	boolean	When connecting via a proxy server as determined by the X-Forwarded-For 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](#) <sup>†</sup>
- **Criteria version:** The v2021-09-22 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 v2021-09-22 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
match Operator	enum	Matches the specified network if set to IS , otherwise IS_NOT reverses the match.
	IS	Matches the specified network .
	IS_NOT	Does not match the specified network .
network	enum	Match the network.
	STAGING	Match the staging network.

Option	Type	Description
	PRODUCTION	Match the production network.

## contentType

- **Property Manager name:** [Content Type](#)
- **Criteria version:** The v2021-09-22 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
match Operator	enum	Matches any Content-Type among specified values when set to IS_ONE_OF , otherwise IS_NOT_ONE_OF reverses the match.
	IS_ONE_OF	Matches any Content-Type among the specified values .
	IS_NOT_ONE_OF	Matches none of the specified values .
values	string array	Content-Type response header value, for example text/html .
match Wildcard	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 v2021-09-22 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>
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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.	
	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.	

Option	Type	Description	<a href="#">Requires</a>
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>
	<code>MATCHES_ONE_OF</code>	The value is included as a string Value .	
	<code>DOES_NOT_MATCH_ONE_OF</code>	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>
	<code>IS</code>	Values are equal.	
	<code>IS_NOT</code>	Values are not equal.	
	<code>IS_LESS_THAN</code>	The <code>numericValue</code> is less than the matched client.	
	<code>IS_LESS_THAN_OR_EQUAL</code>	The <code>numericValue</code> is less than or equal to the matched client.	
	<code>IS_MORE_THAN</code>	The <code>numericValue</code> is more than the matched client.	
	<code>IS_MORE_THAN_OR_EQUAL</code>	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>versionValue</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>
	<code>IS</code>	The <code>versionValue</code> equals the matched client.	
	<code>IS_NOT</code>	The <code>versionValue</code> does not equal the matched client.	
	<code>IS_LESS_THAN</code>	The <code>versionValue</code> is less than the matched client.	
	<code>IS_LESS_THAN_OR_EQUAL</code>	The <code>versionValue</code> is less than or equal to the matched client.	
	<code>IS_MORE_THAN</code>	The <code>versionValue</code> is more than the matched client.	
	<code>IS_MORE_THAN_OR_EQUAL</code>	The <code>versionValue</code> is more than or equal to the matched client.	



Option	Type	Description	Requires
booleanValue	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</code> , <code>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>
stringValue	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>
numericValue	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>
versionValue	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>
matchCase Sensitive	boolean	Sets a case-sensitive match for the <code>stringValue</code> field.	<code>stringMatchOperator</code> is either: <code>MATCHES_ONE_OF</code> , <code>DOES_NOT_MATCH_ONE_OF</code>
match Wildcard	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>


## edgeWorkersFailure

- **Property Manager name:** [EdgeWorkers Execution Status](#) 
- **Criteria version:** The `v2021-09-22` rule format supports the `edgeWorkersFailure` criteria v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Checks the EdgeWorkers execution status and detects whether a customer's JavaScript failed on edge servers.

Option	Type	Description
execStatus	enum	Specify execution status.
	FAILURE	Execution failed.
	SUCCESS	Execution succeeded.

## fileExtension

- **Property Manager name:** [File Extension](#) 
- **Criteria version:** The `v2021-09-22` 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
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	An array of file extension strings, with no leading dot characters, for example <code>png</code> , <code>jpg</code> , <code>jpeg</code> , and <code>gif</code> .
matchCase Sensitive	boolean	Sets a case-sensitive match.

## filename

- **Property Manager name:** [Filename](#)<sup>↗</sup>
- **Criteria version:** The `v2021-09-22` 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	<a href="#">Requires</a>
match Operator	enum	If set to <code>IS_ONE_OF</code> or <code>IS_NOT_ONE_OF</code> , matches whether the filename matches one of the <code>values</code> . If set to <code>IS_EMPTY</code> or <code>IS_NOT_EMPTY</code> , matches whether the specified filename is part of the path.	
	<code>IS_ONE_OF</code>	The filename matches one of the <code>values</code> .	
	<code>IS_NOT_ONE_OF</code>	The filename does not match one of the <code>values</code> .	
	<code>IS_EMPTY</code>	The filename is not part of the path.	
	<code>IS_NOT_EMPTY</code>	The filename is part of the path.	
values	string array	Matches the filename component of the request URL. Wildcards are allowed, where <code>?</code> matches a single character and <code>*</code> matches more than one. For example, specify <code>filename.*</code> to accept any extension.	matchOperator is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code>
match Case Sensitive	boolean	Sets a case-sensitive match for the <code>value</code> field.	matchOperator is either: <code>IS_ONE_OF</code> , <code>IS_NOT_ONE_OF</code>

## hostname

- **Property Manager name:** [Hostname](#)<sup>¶</sup>
- **Criteria version:** The v2021-09-22 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 v2021-09-22 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 v2021-09-22 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 v2021-09-22 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	<a href="#">Requires</a>
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 upperBound .	
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](#)
- **Criteria version:** The v2021-09-22 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 `set Variable` 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>variable Expression</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>variable Expression</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>variable Expression</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>

Option	Type	Description	Requires
variable Expression	string (allows <a href="#">variables</a> )	Specifies a single matching string.	matchOperator is either: IS, IS_NOT, IS_GREATER_THAN, IS_GREATER_THAN_OR_EQUAL_TO, IS_LESS_THAN, IS_LESS_THAN_OR_EQUAL_TO
lower Bound	string	Specifies the range's numeric minimum value.	matchOperator is either: IS_BETWEEN, IS_NOT_BETWEEN
upper Bound	string	Specifies the range's numeric maximum value.	matchOperator is either: IS_BETWEEN, IS_NOT_BETWEEN
match Wildcard	boolean	When matching string expressions, enabling this matches wildcard metacharacters such as * and ? .	matchOperator is either: IS, IS_NOT, IS_ONE_OF, IS_NOT_ONE_OF
match Case Sensitive	boolean	When matching string expressions, enabling this performs a case-sensitive match.	matchOperator is either: IS, IS_NOT, IS_ONE_OF, IS_NOT_ONE_OF

## metadataStage

- **Property Manager name:** [Metadata Stage](#)
- **Criteria version:** The v2021-09-22 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 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.

Option	Type	Description
	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 v2021-09-22 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
matchOperator	enum	Specifies a single required ORIGIN_TIMED_OUT value.
	ORIGIN_TIMED_OUT	This is currently the only supported value.

## path

- **Property Manager name:** [Path](#)
- **Criteria version:** The v2021-09-22 rule format supports the path criteria v1.2.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches the URL's non-hostname path component.

Option	Type	Description
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Option	Type	Description
match Operator	enum	Matches the contents of the <code>values</code> array.
	MATCHES_ ONE_OF	Matches any of the <code>values</code> array.
	DOES_ NOT_ MATCH_ ONE_OF	Matches none of the <code>values</code> array.
values	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> .
match Case Sensitive	boolean	Sets a case-sensitive match.
normalize	boolean	Transforms URLs before comparing them with the provided value. URLs are decoded, and any directory syntax such as <code>../</code> or <code>//</code> is stripped as a security measure. This protects URL paths from being accessed by unauthorized users.

## queryStringParameter

- **Property Manager name:** [Query String Parameter](#)
- **Criteria version:** The `v2021-09-22` 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>
parameter Name	string	The name of the query field, for example, <code>q</code> in <code>?q=string</code> .	
match Operator	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.	



Option	Type	Description	<a href="#">Requires</a>
	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.	
<code>values</code>	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>
<code>lowerBound</code>	number	Specifies the match's minimum value.	<code>matchOperator</code> is either: <code>IS_MORE_THAN</code> , <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 either: <code>IS_LESS_THAN</code> , <code>IS_BETWEEN</code>
<code>matchWildcardName</code>	boolean	Allows <code>*</code> and <code>?</code> wildcard matches in the <code>parameterName</code> field.	
<code>matchCaseSensitiveName</code>	boolean	Sets a case-sensitive match for the <code>parameterName</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_ONE_OF</code> , <code>IS_NOT_ONE_OF</code>
<code>matchCaseSensitiveValue</code>	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>
<code>escapeValue</code>	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](#)
- **Criteria version:** The `v2021-09-22` 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
<code>bucket</code>	number (0-100)	Specify a percentage of random requests to which to apply a behavior. Any remainders do not match.

## recoveryConfig

- **Property Manager name:** [Recovery Configuration Name](#)
- **Criteria version:** The v2021-09-22 rule format supports the `recoveryConfig` criteria v1.0.
- **Rule format status:** [Deprecated, outdated rule format](#)
- **Access:** [Read-write](#)

Matches on specified origin recovery scenarios. The `originFailureRecoveryPolicy` behavior defines the scenarios that trigger the recovery or retry methods you set in the `originFailureRecoveryMethod` rule. If the origin fails, the system checks the name of the recovery method applied to your policy. It then either redirects the requesting client to a backup origin or returns predefined HTTP response codes.

Option	Type	Description
<code>config Name</code>	string	A unique identifier used for origin failure recovery configurations. This is the recovery method configuration name you apply when setting origin failure recovery methods and scenarios in <code>originFailureRecoveryMethod</code> and <code>originFailureRecoveryPolicy</code> behaviors. The value can contain alphanumeric characters and dashes.

## regularExpression

- **Property Manager name:** [Regex](#)
- **Criteria version:** The v2021-09-22 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
<code>matchString</code>	string (allows <a href="#">variables</a> )	The string to match, typically the contents of a dynamic variable.
<code>regex</code>	string	The regular expression (PCRE) to match against the string.
<code>caseSensitive</code>	boolean	Sets a case-sensitive regular expression match.

## requestCookie

- **Property Manager name:** [Request Cookie](#)
- **Criteria version:** The v2021-09-22 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.	
	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.	
value	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>
lowerBound	number	When the <code>value</code> is numeric, this field specifies the match's minimum value.	<code>matchOperator</code> is <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 <code>IS_BETWEEN</code>
matchWildcardName	boolean	Allows <code>*</code> and <code>?</code> wildcard matches in the <code>cookieName</code> field.	
matchCaseSensitiveName	boolean	Sets a case-sensitive match for the <code>cookieName</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</code> , <code>IS_NOT</code>
matchCaseSensitiveValue	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 `v2021-09-22` 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>
headerName	string	The name of the request header, for example <code>Accept-Language</code> .	
matchOperator	enum	Narrows the match criteria.	
	IS_ONE_OF	Tests whether the field's <code>value</code> string matches.	

Option	Type	Description	<a href="#">Requires</a>
	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>matchWildcardName</code>	boolean	Allows <code>*</code> and <code>?</code> wildcard matches in the <code>headerName</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_ONE_OF</code> , <code>IS_NOT_ONE_OF</code>
<code>matchCaseSensitiveValue</code>	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>

## requestMethod

- **Property Manager name:** [Request Method](#)
- **Criteria version:** The `v2021-09-22` 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
<code>matchOperator</code>	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> .
<code>value</code>	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.

Option	Type	Description
	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.
	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](#) <sup>ⓘ</sup>
- **Criteria version:** The v2021-09-22 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> <div>HTTP</div> <div>HTTPS</div>

# requestType

- **Property Manager name:** [Request Type](#)
- **Criteria version:** The v2021-09-22 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 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 v2021-09-22 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>
header Name	string	The name of the response header, for example <code>Content-Type</code> .	
match Operator	enum	Narrows the match according to various criteria.	
	<code>IS_ONE_OF</code>	The field's <code>value</code> string matches.	

Option	Type	Description	<a href="#">Requires</a>
	IS_NOT_ONE_OF	The field's value string does not match.	
	EXISTS	The HTTP field headerName is present.	
	DOES_NOT_EXIST	The HTTP field headerName is absent.	
	IS_LESS_THAN	Matches ranges when the value is numeric.	
	IS_MORE_THAN	Matches ranges when the value is numeric.	
	IS_BETWEEN	Is between the numeric lowerBound and upperBound values.	
values	string array	The response header's value, for example application/x-www-form-urlencoded when the header headerName is Content-Type .	matchOperator is either: IS_ONE_OF , IS_NOT_ONE_OF
lower Bound	number	When the value is numeric, this field specifies the match's minimum value.	matchOperator is either: IS_MORE_THAN , IS_BETWEEN
upper Bound	number	When the value is numeric, this field specifies the match's maximum value.	matchOperator is either: IS_LESS_THAN , IS_BETWEEN
match Wildcard Name	boolean	Allows * and ? wildcard matches in the headerName field.	
match Wildcard Value	boolean	Allows * and ? wildcard matches in the value field.	matchOperator is either: IS_ONE_OF , IS_NOT_ONE_OF
match Case Sensitive Value	boolean	When enabled, the match is case-sensitive for the value field.	matchOperator is either: IS_ONE_OF , IS_NOT_ONE_OF

## time

- **Property Manager name:** [Time Interval](#)
- **Criteria version:** The v2021-09-22 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	<a href="#">Requires</a>
match Operator	enum	Specifies how to define the range of time.	
	BEGINNING	The duration is indefinite, using the value of beginDate .	

Option	Type	Description	<a href="#">Requires</a>
	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> .	
<code>repeatInterval</code>	string (duration)	Sets the time between each repeating time period's starting points.	match Operator is REPEATING
<code>repeatDuration</code>	string (duration)	Sets the duration of each repeating time period.	match Operator is REPEATING
<code>lastingDuration</code>	string (duration)	Specifies the end of a time period as a duration relative to the <code>lastingDate</code> .	match Operator is LASTING
<code>lastingDate</code>	string (timestamp)	Sets the start of a fixed time period.	match Operator is LASTING
<code>repeatBeginDate</code>	string (timestamp)	Sets the start of the initial time period.	match Operator is REPEATING
<code>applyDaylightSavingsTime</code>	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 Operator is REPEATING
<code>beginDate</code>	string (timestamp)	Sets the start of a time period.	match Operator is BEGINNING OR match Operator is BETWEEN
<code>endDate</code>	string (timestamp)	Sets the end of a fixed time period.	match Operator is BETWEEN

## tokenAuthorization

- **Property Manager name:** Token Verification Result
- **Criteria version:** The `v2021-09-22` 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	<a href="#">Requires</a>
<code>matchOperator</code>	enum	Error match scope.	



Option	Type	Description	<a href="#">Requires</a>
	IS_SUCCESS	No errors occurred.	
	IS_CUSTOM_FAILURE	Match any error in <code>statusList</code> .	
	IS_ANY_FAILURE	Any error occurred.	

## userAgent

- **Property Manager name:** [User Agent](#) <sup>⚠</sup>
- **Criteria version:** The `v2021-09-22` 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
<code>match</code> Operator	enum	Matches the specified set 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 any of the specified <code>values</code> .
	<code>IS_NOT_ONE_OF</code>	Does not match any of the specified <code>values</code> .
<code>values</code>	string array	The <code>User-Agent</code> header's value. For example, <code>Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)</code> .
<code>match</code> Wildcard	boolean	Allows <code>*</code> and <code>?</code> wildcard matches in the <code>value</code> field. For example, <code>*Android*</code> , <code>*iPhone5*</code> , <code>*Firefox*</code> , or <code>*Chrome*</code> .
<code>matchCase</code> Sensitive	boolean	Sets a case-sensitive match for the <code>value</code> field.

## userLocation

- **Property Manager name:** [User Location Data](#) <sup>⚠</sup>
- **Criteria version:** The `v2021-09-22` 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 <code>IS_ONE_OF</code> , otherwise <code>IS_NOT_ONE_OF</code> 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 <code>US</code> or <code>CN</code> .	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.	
	SA	South America.	
region Values	string array	ISO 3166 country and region codes, for example <code>US:MA</code> for Massachusetts or <code>JP:13</code> for Tokyo.	field is REGION
checkIps	enum	Specifies which IP addresses determine the user's location.	
	BOTH	Behaves like <code>HEADERS</code> , but also considers the connecting client's IP address.	
	CONNECTING	Considers the connecting client's IP address.	
	HEADERS	Considers IP addresses specified in the <code>X-Forwarded-For</code> header, succeeding if any of them match.	
useOnly First XForwarded ForIp	boolean	When connecting via a proxy server as determined by the <code>X-Forwarded-For</code> header, enabling this option matches the end client specified in the header. Disabling it matches the connecting client's IP address.	checkIps is either: BOTH , HEADERS

## userNetwork

- **Property Manager name:** [User Network Data](#) <sup>✱</sup>
- **Criteria version:** The `v2021-09-22` 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_TYPE	A more general NETWORK_TYPE .																																																																																																																			
	BANDWIDTH	Bandwidth.																																																																																																																			
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 .																																																																																																																			
network Values	string array	Any set of specific networks.	field is NETWORK																																																																																																																		
		<div><b>Supported values:</b><table><tr><td>@NIFTY</td><td>EASYNET</td><td>REDIRIS</td></tr><tr><td>AIRTEL</td><td>EITC</td><td>RENATER</td></tr><tr><td>ALPHA_INTERNET</td><td>ETISALAT</td><td>RESERVED</td></tr><tr><td>ALTITUDE_TELECOM</td><td>EUROCIBER</td><td>RETEVISION</td></tr><tr><td>AOL</td><td>FASTWEB</td><td>ROAD_RUNNER</td></tr><tr><td>ARNET</td><td>FIBERTEL</td><td>ROGERS</td></tr><tr><td>ASAHI</td><td>FRANCE_TELECOM</td><td>SASKTEL</td></tr><tr><td>ATT</td><td>FREE</td><td>SEEDNET</td></tr><tr><td>AWS</td><td>FREECOM</td><td>SEIKYO_INTERNET</td></tr><tr><td>BELLALIAN</td><td>FRONTIER</td><td>SFR</td></tr><tr><td>BELL_CANADA</td><td>GOOGLECLOUD</td><td>SHAW</td></tr><tr><td>BIGLOBE</td><td>H3G</td><td>SOFTLAYER</td></tr><tr><td>BITMAILER</td><td>HINET</td><td>SO_NET</td></tr><tr><td>BOUYGUES</td><td>IBM</td><td>SPRINT</td></tr><tr><td>BRIGHT_HOUSE</td><td>IDECNET</td><td>SUDDENLINK</td></tr><tr><td>BSKYB</td><td>IJ4U</td><td>TALKTALK</td></tr><tr><td>BT</td><td>INFOSPHERE</td><td>TEKSAVY</td></tr><tr><td>CABLEONE</td><td>JANET</td><td>TELEFONICA</td></tr><tr><td>CABLEVISION</td><td>JAZZTELL</td><td>TELSTRA</td></tr><tr><td>CERNET</td><td>JUSTNET</td><td>TERRA_MEXICO</td></tr><tr><td>CHARTER</td><td>LIVEDOOR</td><td>TI</td></tr><tr><td>CHINANET</td><td>MCI</td><td>TIKITIKI</td></tr><tr><td>CHINA_MOBILE</td><td>MEDIACOM</td><td>TIME_WARNER</td></tr><tr><td>CHINA_UNICOM</td><td>MEDIA_ONE</td><td>TISCALI</td></tr><tr><td>CLEARWIRE</td><td>MICROSOFT</td><td>TURK_TELEKOM</td></tr><tr><td>COGECO</td><td>MIL</td><td>T_MOBILE</td></tr><tr><td>COLOCROSSING</td><td>NERIM</td><td>UNI2</td></tr><tr><td>COLT</td><td>NEWNET</td><td>UNINET</td></tr><tr><td>COMCAST</td><td>NUMERICABLE</td><td>UPC</td></tr><tr><td>COMPLETEL</td><td>OCN</td><td>USEMB</td></tr><tr><td>COMPUSERVE</td><td>ODN</td><td>UUNET</td></tr><tr><td>COVAD</td><td>ONO</td><td>VERIZON</td></tr><tr><td>DION</td><td>PANASONIC_HI_HO</td><td>VIRGIN_MEDIA</td></tr><tr><td>DIRECTV</td><td>PLALA</td><td>VODAFONE</td></tr><tr><td>DREAMNET</td><td>PLUSNET</td><td>WAKWAK</td></tr><tr><td>DTAG</td><td>PRODIGY</td><td>WIND</td></tr><tr><td>DTI</td><td>QWEST</td><td>WINDSTREAM</td></tr><tr><td>EARTHLINK</td><td>RCN</td><td>ZERO</td></tr></table></div>	@NIFTY	EASYNET	REDIRIS	AIRTEL	EITC	RENATER	ALPHA_INTERNET	ETISALAT	RESERVED	ALTITUDE_TELECOM	EUROCIBER	RETEVISION	AOL	FASTWEB	ROAD_RUNNER	ARNET	FIBERTEL	ROGERS	ASAHI	FRANCE_TELECOM	SASKTEL	ATT	FREE	SEEDNET	AWS	FREECOM	SEIKYO_INTERNET	BELLALIAN	FRONTIER	SFR	BELL_CANADA	GOOGLECLOUD	SHAW	BIGLOBE	H3G	SOFTLAYER	BITMAILER	HINET	SO_NET	BOUYGUES	IBM	SPRINT	BRIGHT_HOUSE	IDECNET	SUDDENLINK	BSKYB	IJ4U	TALKTALK	BT	INFOSPHERE	TEKSAVY	CABLEONE	JANET	TELEFONICA	CABLEVISION	JAZZTELL	TELSTRA	CERNET	JUSTNET	TERRA_MEXICO	CHARTER	LIVEDOOR	TI	CHINANET	MCI	TIKITIKI	CHINA_MOBILE	MEDIACOM	TIME_WARNER	CHINA_UNICOM	MEDIA_ONE	TISCALI	CLEARWIRE	MICROSOFT	TURK_TELEKOM	COGECO	MIL	T_MOBILE	COLOCROSSING	NERIM	UNI2	COLT	NEWNET	UNINET	COMCAST	NUMERICABLE	UPC	COMPLETEL	OCN	USEMB	COMPUSERVE	ODN	UUNET	COVAD	ONO	VERIZON	DION	PANASONIC_HI_HO	VIRGIN_MEDIA	DIRECTV	PLALA	VODAFONE	DREAMNET	PLUSNET	WAKWAK	DTAG	PRODIGY	WIND	DTI	QWEST	WINDSTREAM	EARTHLINK	RCN	ZERO	
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bandwidth Values	string array	Bandwidth range in bits per second, either 1 , 57 , 257 , 1000 , 2000 , or 5000 .	field is BANDWIDTH																																																																																																																		
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Option	Type	Description	Requires
	HEADERS	Considers IP addresses specified in the <code>X-Forwarded-For</code> header, succeeding if any of them match.	
<code>useOnlyFirstXForwardedForIp</code>	boolean	When connecting via a proxy server as determined by the <code>X-Forwarded-For</code> header, enabling this option matches the end client specified in the header. Disabling it matches the connecting client's IP address.	<code>checkIps</code> is either: <code>BOTH</code> , <code>HEADERS</code>

## variableError

- **Property Manager name:** [Variable Error](#)
- **Criteria version:** The `v2021-09-22` 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
<code>result</code>	boolean	Matches errors for the specified set of <code>variableNames</code> , otherwise matches errors from variables outside that set.
<code>variableNames</code>	string 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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