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AWS Elemental MediaTailor API

Use the AWS Elemental MediaTailor API to configure scalable ad insertion for your live and VOD content. With AWS Elemental MediaTailor, you can serve targeted ads to viewers while maintaining broadcast quality in over-the-top (OTT) video applications. For information about using the service, including detailed information about the settings covered in this guide, see the AWS Elemental MediaTailor User Guide.

Through the REST API, you manage AWS Elemental MediaTailor configurations the same as you do through the console. For example, you specify ad insertion behavior and mapping information for the origin server and the ad decision server (ADS).

Specifying the REST API Endpoint

The AWS Elemental MediaTailor REST API endpoint is formatted as follows:

https://api.mediatailor.<region>.amazonaws.com/

For the list of AWS Elemental MediaTailor regions, see AWS Regions and Endpoints: AWS Elemental MediaTailor.

Signing Requirements

AWS Elemental MediaTailor supports authentication using AWS Signature Version 4. For more information, see Signature Version 4 Signing Process in the AWS General Reference.

When you access AWS Elemental MediaTailor through the CLI or one of the SDKs, the tools automatically sign the requests for you with the access key and secret key that you specify in your client configuration.

For REST API use, you implement a cryptographic hash function that complies with AWS Signature Version 4 to calculate the security signature for your requests. You include a security signature in each REST API request to AWS Elemental MediaTailor, and the service validates your signature before proceeding:

- To sign a request, you use your hash function to calculate a digital signature. You pass the function the text of your request and your secret access key. The function returns the corresponding hash value. You include the hash value in the signature portion of the Authorization header of your request.
- When it receives your request, AWS Elemental MediaTailor runs its own calculation of the signature, and then compares that to the signature that you provided in the header. If they match, AWS Elemental MediaTailor processes your request.
Resources

The AWS Elemental MediaTailor REST API includes the following resources.

Topics
- PlaybackConfiguration (p. 2)
- PlaybackConfiguration Name (p. 6)
- PlaybackConfigurations (p. 9)

PlaybackConfiguration

The central AWS Elemental MediaTailor configuration object. The playback configuration holds location information about the origin server and ad decision server (ADS). The configuration also holds endpoints that provide access points in and out of AWS Elemental MediaTailor.

URI

/playbackConfiguration

HTTP Methods

PUT

Operation ID: PutPlaybackConfiguration

Adds a new configuration to AWS Elemental MediaTailor.

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetPlaybackConfigurationResponse</td>
<td>Success (p. 3)</td>
</tr>
</tbody>
</table>

Schemas

Request Bodies

Example PUT

```json
{
    "AdDecisionServerUrl (p. 5)": "string",
    "CdnConfiguration (p. 5)": {
        "AdSegmentUrlPrefix (p. 3)": "string",
        "ContentSegmentUrlPrefix (p. 3)": "string"
    },
    "SlateAdUrl (p. 5)": "string",
```
Response Bodies

Example GetPlaybackConfigurationResponse

```json
{
    "SessionInitializationEndpointPrefix (p. 3)": "string",
    "AdDecisionServerUrl (p. 4)": "string",
    "CdnConfiguration (p. 4)": {
        "AdSegmentUrlPrefix (p. 3)": "string",
        "ContentSegmentUrlPrefix (p. 3)": "string"
    },
    "SlateAdUrl (p. 4)": "string",
    "PlaybackEndpointPrefix (p. 4)": "string",
    "HlsConfiguration (p. 4)": {
        "ManifestEndpointPrefix (p. 5)": "string"
    },
    "VideoContentSourceUrl (p. 4)": "string",
    "Name (p. 5)": "string"
}
```

Properties

CdnConfiguration

AdSegmentUrlPrefix

A non-default content delivery network (CDN) to serve ad segments. By default, AWS Elemental MediaTailor uses Amazon CloudFront with default cache settings as its CDN for ad segments. To set up an alternate CDN, create a rule in your CDN for the following origin: ads.mediatailor.<region>.amazonaws.com. Then specify the rule's name in this AdSegmentUrlPrefix. When AWS Elemental MediaTailor serves a manifest, it reports your CDN as the source for ad segments.

Type: string
Required: False

ContentSegmentUrlPrefix

A content delivery network (CDN) to cache content segments, so that content requests don't always have to go to the origin server. First, create a rule in your CDN for the content segment origin server. Then specify the rule's name in this ContentSegmentUrlPrefix. When AWS Elemental MediaTailor serves a manifest, it reports your CDN as the source for content segments.

Type: string
Required: False

GetPlaybackConfigurationResponse

SessionInitializationEndpointPrefix

The URL that the player uses to initialize a session that uses client-side reporting.
Properties

Type: string
Required: False

**AdDecisionServerUrl**

The URL for the ad decision server (ADS). This includes the specification of static parameters and placeholders for dynamic parameters. AWS Elemental MediaTailor substitutes player-specific and session-specific parameters as needed when calling the ADS. Alternately, for testing, you can provide a static VAST URL. The maximum length is 25000 characters.

Type: string
Required: False

**CdnConfiguration**

The configuration for using a content delivery network (CDN), like Amazon CloudFront, for content and ad segment management.

Type: CdnConfiguration (p. 3)
Required: False

**SlateAdUrl**

The URL for a high-quality video asset to transcode and use to fill in time that's not used by ads. AWS Elemental MediaTailor shows the slate to fill in gaps in media content. Configuring the slate is optional for non-VPAID configurations. For VPAID, the slate is required because AWS Elemental MediaTailor provides it in the slots designated for dynamic ad content. The slate must be a high-quality asset that contains both audio and video.

Type: string
Required: False

**PlaybackEndpointPrefix**

The URL that the player accesses to get a manifest from AWS Elemental MediaTailor. This session will use server-side reporting.

Type: string
Required: False

**HlsConfiguration**

The configuration for HLS content.

Type: HlsConfiguration (p. 5)
Required: False

**VideoContentSourceUrl**

The URL prefix for the master playlist for the stream, minus the asset ID. The maximum length is 512 characters.

Type: string
Required: False
Name
The identifier for the configuration.

    Type: string
    Required: False

HlsConfiguration

ManifestEndpointPrefix
The URL that is used to initiate a playback session for devices that support Apple HLS. The session uses server-side reporting.

    Type: string
    Required: False

PutPlaybackConfigurationRequest

AdDecisionServerUrl
The URL for the ad decision server (ADS). This includes the specification of static parameters and placeholders for dynamic parameters. AWS Elemental MediaTailor substitutes player-specific and session-specific parameters as needed when calling the ADS. Alternately, for testing you can provide a static VAST URL. The maximum length is 25000 characters.

    Type: string
    Required: False

CdnConfiguration
The configuration for using a content delivery network (CDN), like Amazon CloudFront, for content and ad segment management.

    Type: CdnConfiguration (p. 3)
    Required: False

SlateAdUrl
The URL for a high-quality video asset to transcode and use to fill in time that's not used by ads. AWS Elemental MediaTailor shows the slate to fill in gaps in media content. Configuring the slate is optional for non-VPAID configurations. For VPAID, the slate is required because AWS Elemental MediaTailor provides it in the slots that are designated for dynamic ad content. The slate must be a high-quality asset that contains both audio and video.

    Type: string
    Required: False

VideoContentSourceUrl
The URL prefix for the master playlist for the stream, minus the asset ID. The maximum length is 512 characters.

    Type: string
PlaybackConfiguration Name

A playback configuration object specified by name.

URI

/playbackConfiguration/ Name

HTTP Methods

GET

Operation ID: GetPlaybackConfiguration

Returns the configuration for the specified name.

Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>String</td>
<td>True</td>
<td>The identifier for the configuration.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>GetPlaybackConfigurationSuccess</td>
<td>(p. 7)</td>
</tr>
</tbody>
</table>

DELETE

Operation ID: DeletePlaybackConfiguration

Deletes the configuration for the specified name.

Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>String</td>
<td>True</td>
<td>The identifier for the configuration.</td>
</tr>
</tbody>
</table>
Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>204</td>
<td>None</td>
<td>204 response indicating that there was no content found for the request.</td>
</tr>
</tbody>
</table>

Schemas

Response Bodies

Example GetPlaybackConfigurationResponse

```json
{
  "SessionInitializationEndpointPrefix (p. 8)": "string",
  "AdDecisionServerUrl (p. 8)": "string",
  "CdnConfiguration (p. 8)": {
    "AdSegmentUrlPrefix (p. 7)": "string",
    "ContentSegmentUrlPrefix (p. 7)": "string"
  },
  "SlateAdUrl (p. 8)": "string",
  "PlaybackEndpointPrefix (p. 8)": "string",
  "HlsConfiguration (p. 8)": {
    "ManifestEndpointPrefix (p. 9)": "string"
  },
  "VideoContentSourceUrl (p. 9)": "string",
  "Name (p. 9)": "string"
}
```

Properties

CdnConfiguration

AdSegmentUrlPrefix

A non-default content delivery network (CDN) to serve ad segments. By default, AWS Elemental MediaTailor uses Amazon CloudFront with default cache settings as its CDN for ad segments. To set up an alternate CDN, create a rule in your CDN for the following origin: ads.mediatailor.<region>.amazonaws.com. Then specify the rule's name in this AdSegmentUrlPrefix. When AWS Elemental MediaTailor serves a manifest, it reports your CDN as the source for ad segments.

Type: string
Required: False

ContentSegmentUrlPrefix

A content delivery network (CDN) to cache content segments, so that content requests don't always have to go to the origin server. First, create a rule in your CDN for the content segment origin server. Then specify the rule's name in this ContentSegmentUrlPrefix. When AWS Elemental MediaTailor serves a manifest, it reports your CDN as the source for content segments.

Type: string
Properties

GetPlaybackConfigurationResponse

SessionInitializationEndpointPrefix
The URL that the player uses to initialize a session that uses client-side reporting.

  Type: string
  Required: False

AdDecisionServerUrl
The URL for the ad decision server (ADS). This includes the specification of static parameters and placeholders for dynamic parameters. AWS Elemental MediaTailor substitutes player-specific and session-specific parameters as needed when calling the ADS. Alternately, for testing, you can provide a static VAST URL. The maximum length is 25000 characters.

  Type: string
  Required: False

CdnConfiguration
The configuration for using a content delivery network (CDN), like Amazon CloudFront, for content and ad segment management.

  Type: CdnConfiguration (p. 7)
  Required: False

SlateAdUrl
The URL for a high-quality video asset to transcode and use to fill in time that's not used by ads. AWS Elemental MediaTailor shows the slate to fill in gaps in media content. Configuring the slate is optional for non-VPAID configurations. For VPAID, the slate is required because AWS Elemental MediaTailor provides it in the slots designated for dynamic ad content. The slate must be a high-quality asset that contains both audio and video.

  Type: string
  Required: False

PlaybackEndpointPrefix
The URL that the player accesses to get a manifest from AWS Elemental MediaTailor. This session will use server-side reporting.

  Type: string
  Required: False

HlsConfiguration
The configuration for HLS content.

  Type: HlsConfiguration (p. 9)
Required: False

VideoContentSourceUrl

The URL prefix for the master playlist for the stream, minus the asset ID. The maximum length is 512 characters.

Type: string
Required: False

Name

The identifier for the configuration.

Type: string
Required: False

HlsConfiguration

ManifestEndpointPrefix

The URL that is used to initiate a playback session for devices that support Apple HLS. The session uses server-side reporting.

Type: string
Required: False

PlaybackConfigurations

An array of playback configuration objects.

URI

/playbackConfigurations

HTTP Methods

GET

Operation ID: ListPlaybackConfigurations

Returns a list of the configurations defined in AWS Elemental MediaTailor. You can specify a max number of configurations to return at a time. The default max is 50. Results are returned in pagefuls. If AWS Elemental MediaTailor has more configurations than the specified max, it provides parameters in the response that you can use to retrieve the next pageful.

Query Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MaxResults</td>
<td>String</td>
<td>False</td>
<td>Maximum number of records to return.</td>
</tr>
</tbody>
</table>
### Schemas

#### Response Bodies

**Example ListPlaybackConfigurationsResponse**

```json
{
  "NextToken (p. 12)": "string",
  "Items (p. 12)": [
    {
      "SessionInitializationEndpointPrefix (p. 11)": "string",
      "AdDecisionServerUrl (p. 11)": "string",
      "CdnConfiguration (p. 11)": {
        "AdSegmentUrlPrefix (p. 10)": "string",
        "ContentSegmentUrlPrefix (p. 11)": "string"
      },
      "SlateAdUrl (p. 11)": "string",
      "PlaybackEndpointPrefix (p. 11)": "string",
      "HlsConfiguration (p. 12)": {
        "ManifestEndpointPrefix (p. 12)": "string"
      },
      "VideoContentSourceUrl (p. 12)": "string",
      "Name (p. 12)": "string"
    }
  ]
}
```

#### Properties

**CdnConfiguration**

**AdSegmentUrlPrefix**

A non-default content delivery network (CDN) to serve ad segments. By default, AWS Elemental MediaTailor uses Amazon CloudFront with default cache settings as its CDN for ad segments. To set up an alternate CDN, create a rule in your CDN for the following origin: ads.mediatailor.<region>.amazonaws.com. Then specify the rule's name in this `AdSegmentUrlPrefix`. When AWS Elemental MediaTailor serves a manifest, it reports your CDN as the source for ad segments.
Properties

**Type**
string
Required: False

**ContentSegmentUrlPrefix**

A content delivery network (CDN) to cache content segments, so that content requests don’t always have to go to the origin server. First, create a rule in your CDN for the content segment origin server. Then specify the rule’s name in this `ContentSegmentUrlPrefix`. When AWS Elemental MediaTailor serves a manifest, it reports your CDN as the source for content segments.

Type: string
Required: False

**GetPlaybackConfigurationResponse**

**SessionInitializationEndpointPrefix**

The URL that the player uses to initialize a session that uses client-side reporting.

Type: string
Required: False

**AdDecisionServerUrl**

The URL for the ad decision server (ADS). This includes the specification of static parameters and placeholders for dynamic parameters. AWS Elemental MediaTailor substitutes player-specific and session-specific parameters as needed when calling the ADS. Alternately, for testing, you can provide a static VAST URL. The maximum length is 25000 characters.

Type: string
Required: False

**CdnConfiguration**

The configuration for using a content delivery network (CDN), like Amazon CloudFront, for content and ad segment management.

Type: [CdnConfiguration](p. 10)
Required: False

**SlateAdUrl**

The URL for a high-quality video asset to transcode and use to fill in time that’s not used by ads. AWS Elemental MediaTailor shows the slate to fill in gaps in media content. Configuring the slate is optional for non-VPAID configurations. For VPAID, the slate is required because AWS Elemental MediaTailor provides it in the slots designated for dynamic ad content. The slate must be a high-quality asset that contains both audio and video.

Type: string
Required: False

**PlaybackEndpointPrefix**

The URL that the player accesses to get a manifest from AWS Elemental MediaTailor. This session will use server-side reporting.
**Properties**

- **Type**: string  
  **Required**: False

  **HlsConfiguration**

  The configuration for HLS content.

  - **Type**: HlsConfiguration (p. 12)  
    **Required**: False

- **VideoContentSourceUrl**

  The URL prefix for the master playlist for the stream, minus the asset ID. The maximum length is 512 characters.

  - **Type**: string  
    **Required**: False

- **Name**

  The identifier for the configuration.

  - **Type**: string  
    **Required**: False

  **HlsConfiguration**

  **ManifestEndpointPrefix**

  The URL that is used to initiate a playback session for devices that support Apple HLS. The session uses server-side reporting.

  - **Type**: string  
    **Required**: False

- **ListPlaybackConfigurationsResponse**

  **NextToken**

  Pagination token returned by the GET list request when results overrun the maximum allowed. Use the token to fetch the next page of results.

  - **Type**: string  
    **Required**: False

  **Items**

  Array of playback configurations. This may be all of the available configurations or a subset, depending on the settings you provide and on the total number of configurations stored.

  - **Type**: Array of type GetPlaybackConfigurationResponse (p. 11)  
    **Required**: False
Document History

The following table describes important changes to this documentation.

- **API version: latest**

<table>
<thead>
<tr>
<th>Change</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>New AWS Elemental MediaTailor API release</td>
<td>Initial documentation for the AWS Elemental MediaTailor REST API.</td>
<td>May, 2018</td>
</tr>
</tbody>
</table>
AWS Glossary

For the latest AWS terminology, see the AWS Glossary in the AWS General Reference.