



CHAPTER 7

Request Routing Engine API

This chapter describes the Request Routing Engine API. The Request Routing Engine contains all the functionality that was part of the Service Router in Release 2.4 and previous releases. Because the Service Router now contains the Proximity Engine, the original Service Router functionality has been encapsulated and renamed the Request Routing Engine.

Request Routing Engine API

The Request Routing Engine API allows another platform's software client to make queries, in the form of an HTTP request, to the Request Routing Engine about which Service Engine the Request Routing Engine selects.



Note

The Request Routing Engine API is a Release 2.5.9 and later releases feature and does not support service-aware routing.

Parameter

The Request Routing Engine determines the best Service Engine based on the client IP address and requested URL. Therefore, the platform's software client must include these two parameters in the API query.

- Service Router IP address (required)
- CDNURL (required)
- ClientIP (required)

Request Syntax

`http://ServiceRouterIP/routeURL?CDNURL=<Requested URL>&ClientIP=<ClientIP>`

Request Example

The following is an example of a client's API HTTP request:

```
http://10.252.250.118/routeURL?CDNURL=http://cds.mov/smooth_linear/cnn.isml/victory&ClientIP=165.137.13.117
```

In this example, the request parameters have the following values:

- Service Router IP address—10.252.250.118
- CDNURL—http://cds.mov/smooth_linear/cnn.isml/victory

- ClientIP—192.0.2.121

Return

The Request Routing Engine returns an HTTP response with an XML payload with the following information:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<RoutedURLResponse>
<primaryContentRoutedURL>SRresponse</primaryContentRoutedURL>
</RoutedURLResponse>
```

The response identifies the name of the Service Engine the Request Routing Engine selected.

Return Example

For the example HTTP request described above, the HTTP response would be the following:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<RoutedURLResponse>
<primaryContentRoutedURL>http://str01-hub03.se.cds.mov/smooth_linear/cnn.isml/victory</pri
maryContentRoutedURL>
</RoutedURLResponse>
```

In this example, str-01-hub03 is the Service Engine the Request Routing Engine selected.



Note

When there are API query requests for `clientaccesspolicy.xml` or `crossdomain.xml`, the requests are treated like normal API request and the XML payload is sent in the HTTP response as described above.

If requests for `clientaccesspolicy.xml` or `crossdomain.xml` are sent directly to the Request Routing Engine (non-API request), then these files are served. For more information about the Cross-Domain Policy, refer to *Cisco Internet Streamer CDS 2.6 Software Configuration Guide*. See the “[Related Publications](#)” section on page ix for links to documentation online.