



Finding Feature Information

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Your software release may not support all the features documented in this module. For the latest caveats and feature information, see [Bug Search Tool](#) and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table at the end of this module.

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Prerequisites for Multiple Destination Pattern Support on a Voice Dial Peer

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Cisco Unified Border Element (Enterprise)

- Cisco IOS XE Release 3.7S or a later release must be installed and running on your Cisco ASR 1000 Series Router.

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Restrictions for Multiple Destination Pattern Support on a Voice Dial Peer

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- The Multiple Destination Pattern Support on Voice Dial Peer feature is supported only on a VoIP dial peer.
- An E.164 pattern map is not supported on an inbound dial peer.
- An E.164 pattern map may not be supported on a local file system depending on the Cisco software version that you are using.
- Duplicate destination patterns cannot be added to a pattern map.

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Information About Multiple Destination Pattern Support on a Voice Dial Peer

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- [Overview of Multiple Destination Pattern Support on a Voice Dial Peer, page 4](#)

Overview of Multiple Destination Pattern Support on a Voice Dial Peer

On Cisco Unified Border Element (Enterprise) and Session Initiation Protocol (SIP) Gateway, one VoIP dial peer can have only one destination pattern. To support multiple destination patterns on a VoIP dial peer, which involve massive dial peer configuration, use an E.164 destination pattern map. You can create a destination E.164 pattern map and then link it to one or more dial peers. A destination pattern, which is associated with a dialed string on a specific telephony device, is configured on a VoIP dial peer by using the **destination e164-pattern map** command. When a dialed string on a telephony device matches the destination pattern, calls are routed on to the VoIP dial peer; otherwise the call fails. You must configure an E.164 destination pattern map for each VoIP dial peer that is defined on a device. Configuring an E.164 destination pattern map on multiple dial peers requires several configurations as compared to configuring a destination pattern map on a single dial peer.

When a destination pattern is the only source to enable a dial peer, a valid E.164 destination pattern map enables linked dial peers, whereas an invalid E.164 destination pattern map disables the linked dial peers. Additionally, whenever an E.164 destination pattern map is created or reloaded, one or more dial peers linked with an E.164 destination pattern map is enabled or disabled based on the validation of a pattern map.

When a dial peer has multiple destination patterns, select the longest prefix matching criteria to count as the pattern matched for the dial peer. For example, if dial peer A has two destination patterns matched where one destination pattern is matched with five digits and the other destination pattern is matched with four digits, then dial peer A is counted as matched with five digits.

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How to Configure Multiple Destination Pattern Support on a Voice Dial Peer

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- [Configuring Multiple Destination Pattern Support on a Voice Dial Peer, page 6](#)

Configuring Multiple Destination Pattern Support on a Voice Dial Peer

SUMMARY STEPS

1. `enable`
2. `configure terminal`
3. `voice class e164-pattern-map tag`
4. `url url`
5. `e164 pattern`
6. `description string`
7. `exit`
8. `dial-peer voice tagvoip system`
9. `destination e164-pattern-map tag`
10. `end`
11. `voice class e164-pattern-map loadtag`
12. `show dial-peer voice`
13. `show voice class e164-pattern-map [summary | tag]`

DETAILED STEPS

	Command or Action	Purpose
Step 1	<p>enable</p> <p>Example:</p> <pre>Device> enable</pre>	<p>Enters privileged EXEC mode.</p> <ul style="list-style-type: none"> Enter your password if prompted.
Step 2	<p>configure terminal</p> <p>Example:</p> <pre>Device# configure terminal</pre>	<p>Enters global configuration mode.</p>
Step 3	<p>voice class e164-pattern-map tag</p> <p>Example:</p> <pre>Device(config)# voice class e164-pattern-map 11</pre>	<p>Creates an E.164 pattern map to configure multiple destination E.164 patterns on a dial peer and enters voice class E.164 pattern map configuration mode.</p>
Step 4	<p>url url</p> <p>Example:</p> <pre>Device(config-voice class e164-pattern-map)# url http://http-host/config-files/destination-pattern-map.cfg</pre>	<p>Defines the URL of an internally or an externally stored text file used in the E.164 pattern map.</p> <p>Note If you are using the url command, skip Step 5 and proceed to Step 6.</p>
Step 5	<p>e164 pattern</p> <p>Example:</p> <pre>Device(config-voice class e164-pattern-map)# e164 5557123</pre>	<p>Defines a complete E.164 telephone number prefix.</p>
Step 6	<p>description string</p> <p>Example:</p> <pre>Device(config-voice class e164-pattern-map)# description It has 3 entries</pre>	<p>Provides a description for a specific E.164 pattern map.</p>

Command or Action	Purpose
<p>Step 7 <code>exit</code></p> <p>Example:</p> <pre>Device(config-voice class e164-pattern-map)# exit</pre>	<p>Exits voice class E.164 pattern map configuration mode and enters global configuration mode.</p>
<p>Step 8 <code>dial-peer voice tagvoip system</code></p> <p>Example:</p> <pre>Device(config)# dial-peer voice 123 voip system</pre>	<p>Defines a local dial peer and enters dial peer configuration mode.</p>
<p>Step 9 <code>destination e164-pattern-map tag</code></p> <p>Example:</p> <pre>Device(config-dial-peer)# destination e164-pattern-map 1111</pre>	<p>Links an E.164 pattern map to one or more dial peers.</p> <ul style="list-style-type: none"> Identifies a destination E.164 pattern map associated with a dial peer with a number assigned to the destination E.164 pattern map. The range is from 1 to 10000. <p>Note Repeat the Steps 1 to 9 to add multiple destination E.164 patterns to a pattern map.</p>
<p>Step 10 <code>end</code></p> <p>Example:</p> <pre>Device(config-dial-peer)# end</pre>	<p>Exits dial peer configuration mode and enters privileged EXEC mode.</p>
<p>Step 11 <code>voice class e164-pattern-map loadtag</code></p> <p>Example:</p> <pre>Device# voice class e164-pattern-map load 2543</pre>	<p>Loads a destination E.164 pattern map that is specified by a text file.</p>
<p>Step 12 <code>show dial-peer voice</code></p> <p>Example:</p> <pre>Device# show dial-peer voice</pre>	<p>Displays the status of an E.164 pattern map when the pattern map is associated with a dial peer.</p>
<p>Step 13 <code>show voice class e164-pattern-map [summary tag]</code></p> <p>Example:</p> <pre>Device# show voice class e164-pattern-map 11</pre>	<p>Displays the status of the configured E.164 pattern maps and the status of the text file.</p> <ul style="list-style-type: none"> Also displays the status and the content of a particular E.164 pattern map.

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Configuration Examples for Multiple Destination Pattern Support on a Voice Dial Peer

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- [Example: Multiple Destination Pattern Support on a Voice Dial Peer, page 10](#)

Example: Multiple Destination Pattern Support on a Voice Dial Peer

```
voice class e164-pattern-map 11
  url http://http-host/config-files/destination-pattern-map.cfg
  e164 5557456
description it has 5 entries
!
dial-peer voice tag voip system
destination e164-pattern-map 1131
!
voice class e164-pattern-map load 2543
!
```

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Information About Multiple Destination Pattern Support on a Voice Dial Peer

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The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

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Table 1 *Feature Information for Multiple Destination Pattern Support on a Voice Dial Peer*

Feature Name	Releases	Feature Information
Multiple Destination Pattern Support on a Voice Dial Peer	15.2(4)M	<p>The Multiple Destination Pattern Support on a Voice Dial Peer feature is used for handling calls that have noncontiguous dial patterns. This feature allows you to create an E.164 pattern map with multiple destination E.164 pattern, which helps to define and configure destination patterns on an individual dial peer or multiple dial peers.</p> <p>The following commands were introduced or modified: destination e164-pattern-map, e164, show voice class e164-pattern-map, url, voice class e164-pattern-map load, voice class e164-pattern-map.</p>



Feature Name	Releases	Feature Information
Multiple Destination Pattern Support on a Voice Dial Peer	Cisco IOS XE Release 3.7S	<p>The Multiple Destination Pattern Support on a Voice Dial Peer feature is used for handling calls that have noncontiguous dial patterns. This feature allows you to create an E.164 pattern map with multiple destination E.164 pattern, which helps to define and configure destination patterns on an individual dial peer or multiple dial peers.</p> <p>The following commands were introduced or modified: destination e164-pattern-map, e164, show voice class e164-pattern-map, url, voice class e164-pattern-map load, voice class e164-pattern-map.</p>

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