



## **Cisco Virtual PGW 2200 Softswitch Enhanced Generic Number Handling Feature Module**

**For Cisco Hosted Collaboration Solution 9.0**

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*Cisco Virtual PGW 2200 Softswitch Support of PAID Tel URI Feature Module*

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# Feature description

The Enhanced Generic Number Handling feature enables the Cisco Virtual PGW 2200 (VPGW) Softswitch to pass the Generic Number parameter present in a UK ISDN User Part (ISUP) IAM message into the user field of the P-Asserted-ID header in a SIP INVITE message when the Number Qualifier field in the Generic Number is set to “intra-nw-use” (254 in the signaling). This feature introduces a new property called GenNumInclude. The GenNumInclude property enables or disables the feature as follows:

- When set to 1, the system maps the Generic Number in an IAM to the user field of the P-ASSERTED-ID Header in a SIP INVITE.
- When set to 0, the system does *not* map the Generic Number to the user field of the P-ASSERTED-ID Header in a SIP INVITE.

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**Note** The Enhanced Generic Number Handling feature is restricted to deployments in which the ISUP side is provisioned for the United Kingdom variant (ISUPV3\_UK).

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The Cisco VPGW Softswitch performs this message conversion when it determines that it must set up a call between an ISUP network on the originating side and a SIP network on the destination side.

## Prerequisites

The Cisco VPGW Softswitch must be running Release 9.9(1). Prerequisites for this release are documented in the *Release Notes for the Cisco Virtual PGW 2200 (VPGW) Softswitch Software Release 9.9(1)*.

## Provisioning tasks

Information about provisioning is available in *Cisco Virtual PGW 2200 (VPGW) Softswitch Release 9.9 Provisioning Guide* in the following sections:

- Provisioning Overview:
- MML Basics:Provisioning Examples

This section provides a provisioning example for the Enhanced Generic Number Handling feature. Additional provisioning examples for the Cisco VPGW Softswitch software are contained in *Cisco Virtual PGW 2200 (VPGW) Softswitch Software Release 9.9 Provisioning Guide*.

## Provisioning Properties

The following sample MML command sequence provisions the Enhanced Generic Number Handling feature. When provisioned, the Cisco VPGW Softswitch passes a Generic Number received in an IAM to the username of a P-Asserted-ID in a SIP INVITE.

```
prov-ed:profile:name="sip-profl",mapclitosipheader="3"  
prov-ed:profile:name="sip-profl",CliSelectionForCodeOfPractice3 ="2"  
prov-ed:profile:name="sip-profl",GenNumInclude="1".  
prov-add:profile:NAME="sipprol",type="grprofile",cgpninclude="0"  
prov-ed:profile:name="sip-profl",grprofile="sipprol"
```

# Software changes

The following section documents software changes related to the Enhanced Generic Number Handling feature.

## Properties

The following table describes one existing property and new property introduced for this feature that you must provision. For information on other properties, see *Cisco Virtual PGW 2200 (VPGW) Softswitch Release 9.9 MML Command Reference*.

### Properties

Property	Definition
mapclitosipheader (existing)	<p>Indicates the mapping from ISUP CLI to the outgoing SIP message. Maps the calling party number to the P-Asserted ID in the privacy header value ID. If an additional calling party number is contained in the Generic Number field, the Cisco VPGW Softswitch maps it to the SIP From header.</p> <p>Valid values: Integer (0–4)</p> <ul style="list-style-type: none"><li>• 0—Map the CLI to the SIP From header.</li><li>• 1—Map the CLI to Remote-Party-ID header, in addition to the SIP From header.</li><li>• 2—Map the CLI to Remote-Party-ID header, in addition to the SIP From header only when the CLI presentation is allowed.</li><li>• 3—Map the CLI to P-Asserted-ID header, in addition to the SIP From header.</li></ul> <p><b>Note</b> Set this property to 3 to enable the Enhanced Generic Number Handling feature.</p> <ul style="list-style-type: none"><li>• 4—Map the CLI to P-Asserted-ID header, in addition to the SIP From header, only when the CLI presentation is allowed.</li></ul> <p>Default: 0</p> <p>Dynamically reconfigurable: yes.</p> <p>Provisioning example to support the Enhanced Generic Number Handling feature:</p> <pre>prov-ed:profile:name="sip- prof1",mapclitosipheader="3"</pre>

GenNumInclude	<p>Enables or disables the mapping of the Generic Number to the user field of a P-ASSERTED-ID Header in a SIP INVITE.</p> <p>Valid Values:</p> <ul style="list-style-type: none"> <li>1—Map the Generic Number in IAM to the user field of the P-ASSERTED-ID in a SIP INVITE. (Generic Number Handling Enabled)</li> <li>0—Do not map the Generic Number to the user field of the P-ASSERTED-ID in a SIP INVITE. (Generic Number Handling Disabled)</li> </ul> <p>Default Value: 0</p> <p>Property Domain: SIP PROFILE</p> <p>Protocol Family: SIP</p> <p>Provisioning example:</p> <pre>mml&gt; prov-ed:profile:name="sip- prof1",GenNumInclude="1"</pre> <p><b>Note</b> To enable the Generic Number Handling feature, provision the mapclitosipheader property to the value 3.</p>
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## Glossary

### Expansions

Acronym	Expansion
ISUP	ISDN (Integrated Services Digital Network) User Part
SIP	Session Initiation Protocol

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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