Gear up your PBX Cut Costs, Boost Profits

Advanced Inbound Routing



Version 20160226

Goal of this Module

- Inbound Routing based on Caller ID (CID)
- Inbound CID Re-Formatting

Concept: CID Inbound Routing

- Like DID \rightarrow but Routes based on the Calling Number
- Different Destinations based on
 - Time of Day
 - Holiday
- Can add same CID Rule multiple times for different Trunks

Adding a CID Inbound Rule

- Management Console \rightarrow Inbound Rules \rightarrow Add CID Rule
- Set Name for CID Rule (Optional) (Prepended on Incoming Calls)
- Set Caller ID mask
 - \rightarrow Can use the * wildcard
 - (e.g. 0044* or 0044203*)
 - \rightarrow Used to "catch" numbers from
 - a certain group (country, area, etc)
- Point to Destination

dd Inbound Rule	ок	Cancel	Help 🖗
General			
Name			
Inbound from UK			
Caller ID			
0044*			
Choose a SIP Trunk to li	ink to this Inbour	id rule	
1000			~
Routing of calls to Mair	n Number		
Destination for calls duri	ng office hours		
Extension			~
800			
Dertination for calls outs	ide office hours		
Destination for calls outs Extension	ide office hours		~
Extension	ide office hours		*
	ide office hours		▼
Extension		unk	×

Inbound Rule Order

- On Incoming Call
 - \rightarrow Per Trunk
 - \rightarrow Inbound Rules top to bottom
 - \rightarrow First match is used
- Example

 \rightarrow Incoming Call from <u>0044</u> 2033272020 to 0049 892206<u>1592</u>

- Scenario 1
 - DID *1592 \leftarrow uses this
 - DID *9035
 - CID 0044*

- Scenario 2
 - CID 0044* \leftarrow uses this
 - **DID *1592**
 - DID *9035

Concept: Inbound CID Re-Formatting

- Changes the format of the Caller ID number
 - \rightarrow Based on 3CX-specific Regular Expressions
 - → Identifies Source Pattern
 - → Replaces/Reformats based on Replace Pattern
 - \rightarrow Does not Reformat Caller ID Name

More Information: http://www.3cx.com/blog/docs/cid-formatting/

Inbound CID Re-Formatting - When?

- The Provider sends the Caller ID in an inconvenient format
 - Most Common use
 - \rightarrow Provider sends an un-dialable number \rightarrow redial fails
- Example (UK)
 - \rightarrow Provider sends Caller ID: 442033272020
 - \rightarrow Extension misses call and presses redial
 - \rightarrow Call Fails \rightarrow Invalid Number
- Solution
 - \rightarrow Any number starting with "44", prepend "00", then route call

Creating Inbound CID Re-Formatting Rules

• Management Console \rightarrow SIP Trunks \rightarrow Edit Trunk \rightarrow Caller ID tab

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Cancel

• Inbound section $\rightarrow \text{Add}$

General DIDs Caller ID Options Inbound Parameters		
Outbound Parameters		
Reformat Incoming or Outgoing Caller Identification numbers by configuring matching patterns. For more information click here	Edit formatting	
Default caller ID	Source Pattern	
Configure Outbound Caller ID	44(.*)	
	Replace Pattern	
Inbound	0044\1	
+ Add * Delete IF Move Up I Move Down		
Source Pattern Replace Pattern	ок	

Source Pattern

- . \rightarrow One Digit
- \dots \longrightarrow Two Digits
- $.^* \rightarrow All$ the Rest Digits (can only be used at the end)
- 0-9,+ \rightarrow Fix Digits
- () \rightarrow Save content of () as Variable
- Sample: 44(.*)
 - \rightarrow All Numbers starting with 44

Replace Pattern

- 0-9,+ \rightarrow Digit to write
- $(1-9] \rightarrow$ Return the value from a () \leftarrow Variable
- Sample Number 442033272020
 - Source Pattern: 44(.*)
 - Replace Pattern: 44\1 -> 442033272020
 - Source Pattern: (44)(.*)
 - Replace Pattern: +44\2 -> +442033272020
 - Source Pattern: (44)2033(.*)
 - Replace Pattern: +44\2 -> +44272020

Test Your Knowledge

- Format 44 Numbers into International Format
 - → From: 44 203 3272020
 - \rightarrow To: 0044 203 3272020
 - Source Pattern: ?
 Replace Pattern: ?
- Convert International Format to Local
 - → From: 0044 203 3272020
 - → To: 3272020
 - Source Pattern: ?Replace Pattern: ?

Test Your Knowledge

- Format 44 Numbers into International Format
 - → From: 44 203 3272020
 - → To: **0044** 203 3272020
 - Source Pattern: 44(.*)
 Replace Pattern: 0044\1
- Convert International Format to Local
 - → From: 0044 203 3272020
 - \rightarrow To: 3272020
 - Source Pattern: (0044) (203) (.*)
 Replace Pattern: \3

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More Training Material at: www.3CX.com/3CXAcademy

