call-block (dial peer)

To enable blocking of incoming calls, use the **call-block** command in dial peer configuration mode. To return to the default value, use the **no** form of this command.

call-block {**disconnect-cause incoming** {**call-reject** | **invalid-number** | **unassigned-number** | **user-busy**} | **translation-profile incoming** *name*}

no **call-block** {**disconnect-cause incoming** {**call-reject** | **invalid-number** | **unassigned-number** | **user-busy**} | **translation-profile incoming** *name*}

Syntax Description

disconnect-cause incoming	Associates a disconnect cause of incoming calls.
call-reject	Specifies call rejection as the cause for blocking a call during incoming call-number translation.
invalid-number	Specifies invalid number as the cause for blocking a call during incoming call-number translation.
unassigned-number	Specifies unassigned number as the cause for blocking a call during incoming call-number translation.
user-busy	Specifies busy as the cause for blocking a call during incoming call-number translation.
translation-profile incoming	Associates the translation profile for incoming calls.
name	Name of the translation profile.

Command Default

Disconnect cause: No Service (once the call-blocking translation profile is defined)
Translation profile: No default behavior or values

Command Modes

Dial peer configuration

Command History

Release	Modification
12.2(11)T	This command was introduced.

Usage Guidelines

An incoming call can be blocked from the gateway if one of the call numbers (calling, called, or redirect) is matched with the reject translation rule of the incoming call-blocking translation profile.

The cause value is returned to the source of the call when a call is blocked during the incoming call-number translation.

This command is supported in POTS, VoIP, VoFR, and VoATM dial-peer configuration. For VoATM, only ATM Adaptation Layer 5 (AAL5) calls are supported.

The only option for call blocking is in the incoming direction. From the perspective of the voice gateway, the incoming direction can be either of the following:

• ⸺Incoming from a telephony device directly attached to a voice port on the gateway toward the gateway itself

• ⸺Incoming by way of an inbound Voice over X (VoX) call from a peer gateway

To configure incoming call blocking, define a translation rule with a **reject** keyword. For example:

```
voice translation-rule 1

 rule 1 reject /408252*/
```

Apply the rule to a translation profile for called, calling, or redirect-called numbers, such as:

```
voice translation profile call_block_profile

 translate calling 1
```

Include the translation profile within a dial peer definition. For example:

```
dial-peer voice 111 pots

 call-block translation-profile incoming call_block_profile

 call-block disconnect-cause incoming invalid_number
```

In this example, the gateway blocks any incoming time-division multiplexing (TDM) call that successfully matches inbound dial-peer 111 and has a calling number that starts with 408252. The gateway also returns the disconnect cause "invalid number" to the source of the call. (Other disconnect causes can be assigned: unassigned-number, user-busy, or call-rejected.)

Examples

The following example assigns the translation profile "example" to be used for incoming calls and returns the message "invalid number" as a cause for blocked calls:

```
Router(config)# dial-peer voice 5 pots

Router(config-dial-peer)# call-block translation-profile incoming example

Router(config-dial-peer)# call-block disconnect-cause incoming invalid-number
```

Following are two possible call-blocking scenarios:
Scenario 1: Block Inbound Calls from the PSTN/PBX/CO
We place the rejection profile on a POTS dial peer that is associated with the voice port on which we expect the inbound call. When the inbound call attempt is made, we see in the CCAPI debugs that POTS dial-peer 9 is matched for the telephony call leg. The call-block rule is checked and we send back user-busy to the switch.

```
voice translation-rule 1

 rule 1 reject /9193927582/   <<<<-------- filter out calls from this CallerID


voice translation-profile reject_ANI

 translate calling 1


dial-peer voice 9 pots

 destination-pattern 9T

 direct-inward-dial

 port 1/0:23

 call-block translation-profile incoming reject_ANI

 call-block disconnect-cause incoming user-busy
```

Scenario 2: Block Inbound VoX Calls from Using Local POTS Resources
We place the rejection profile on a VoIP/VoATM/VoFR dial peer that matches an inbound VoX call attempt. When the inbound call attempt is made, we see in the CCAPI debugs that VoIP dial-peer 7 is matched for the IP call leg. The call-block rule is checked and we send back user-busy to the switch.

```
voice translation-rule 1

 rule 1 reject /9193927582/   <<<<-------- filter out calls from this CallerID


voice translation-profile reject_ANI
```

```
   translate calling 1


dial-peer voice 7 voip

 destination-pattern 7T

 session target ipv4:A.B.C.D

 incoming called-number .   <<<<-------- force inbound IP call-leg match

 call-block translation-profile incoming reject_ANI

 call-block disconnect-cause incoming user-busy
```

Related Commands

Command	Description
dial-peer voice	Initiates the dial-peer voice configuration mode.
voice translation-profile	Defines a translation profile for voice calls.
voice translation-rule	Defines a translation rule for voice calls.