

IP Phone Replies to One Ping Out of Two

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Introduction

This document describes why the IP phone only replies to one ping when it is pinged twice.

Prerequisites

Requirements

Readers of this document should be knowledgeable of the following:

- Cisco IP Phone
- Cisco CallManager

Components Used

The information in this document is based on the software and hardware versions:

- Cisco CallManager version 3.x
- Cisco IP Phone version 79xx

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, see the Cisco Technical Tips Conventions.

Replying to a Ping

When trying to ping an Cisco IP Phone 79xx from a router, the phone will only reply to one ping out of two.

```
router > ping ipphoneA
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to ipphoneA, timeout is 2 seconds:
!...!
Success rate is 60 percent (3/5), round-trip min/avg/max = 1/2/4
ms
```

This is not the case when pinging from a PC.

```
C:\>ping ipphoneA
Pinging ipphoneA with 32 bytes of data:
Reply from ipphoneA: bytes=32 time<10ms TTL=63
Reply from ipphoneA: bytes=32 time<10ms TTL=63
Reply from ipphoneA: bytes=32 time<10ms TTL=63
Reply from ipphoneA: bytes=32 time<10ms TTL=63
Ping statistics for ipphoneA:
    Packets: Sent = 4, Received = 4, Lost = 0
(0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average
= 0ms
```

This is because the IP phones have been designed to only reply to an echo every 10ms, in order to withstand Denial of Service (DoS) attacks. A Cisco IOS gateway sends echos more frequently so one out of two will timeout. This is not the case for a PC since the time between two echos is greater than 10ms.

Note: Cisco IP Phones 7902/05/12 have a different code base from the Cisco 7940/60. Consequently, there is a delayed reply to the network ping with the 7902/05/12, but not the 7940/60.

Related Information

- [Voice Technology Support](#)
- [Voice and Unified Communications Product Support](#)
- [Recommended Reading: Troubleshooting Cisco IP Telephony](#)
- [Technical Support – Cisco Systems](#)

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