

IOS Upgrade Affects the Default Number of Antennas on ubr7200 VXR Routers

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Introduction

Cisco IOS® updates have changed the default number of antennas configured on the radio interface of the ubr7200 VXR routers.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Wireless networks
- Radio interface
- Command–line usage

In order to perform the tasks noted in this document, you must have privileged EXEC ("enabled") access on the router you want to examine.

Components Used

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

- uBR7223/7246/7246VXR platforms
- IOS versions 12.1(5)XM and 12.2(2)T.

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

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Problem

When you upgrade from Cisco IOS Software Release 12.1(5)XM to 12.2(2)T, the default number of antennas in Cisco IOS increases from one to two. If you use and have only one antenna configured in the Headend (HE) running the configuration, when you upgrade and reload the router, you cannot bring the radio interface to an **up/up** state.

When you issue the **no shut** command under the radio interface on the HE, you receive this error message:

```
%CWRMP-4-RF_IF_COMM: Radio2/0, IF-to-RF/ODU2 comm error on
ODU Controller Reset cmd
```

Solution

Use this solution to solve the problem.

Complete these steps:

1. Under the radio interface, issue this configuration command:

```
radio receive-antennas 1
```

2. The radio interface state changes to **up** as shown in this output:

```
UNII-HE(config-if)# no shut
Oct 29 22:42:41.451: %LINK-3-UPDOWN: Interface Radio2/0, changed state to
down
UNII-HE(config-if)#
Oct 29 22:42:53.395: %CWRMP-4-RF_IF_COMM: Radio2/0, IF-to-RF/ODU2 comm
error on ODU Controller Reset cmd
Oct 29 22:43:03.395: %CWRMP-4-RF_IF_COMM: Radio2/0, IF-to-RF/ODU2 comm
error on ODU Controller Reset cmd
Oct 29 22:43:13.399: %CWRMP-4-RF_IF_COMM: Radio2/0, IF-to-RF/ODU2 comm
error on ODU Controller Reset cmd
Oct 29 22:43:23.399: %CWRMP-4-RF_IF_COMM: Radio2/0, IF-to-RF/ODU2 comm
error on ODU Controller Reset cmd
UNII-HE(config-if)# radio receive-antennas 1
Oct 29 22:43:48.539: %UBR7200-5-UPDOWN: Interface Radio2/0 Port U0, changed
state to up
Oct 29 22:43:48.539: %UBR7200-5-UPDOWN: Interface Radio2/0 Port U1, changed
state to administratively down
Oct 29 22:43:48.539: %UBR7200-5-UPDOWN: Interface Radio2/0 Port U2, changed
state to administratively down
Oct 29 22:43:48.539: %UBR7200-5-UPDOWN: Interface Radio2/0 Port U3, changed
state to administratively down
Oct 29 22:43:49.663: %SYS-5-CONFIG_I: Configured from console by console
Oct 29 22:43:50.539: %LINK-3-UPDOWN: Interface Radio2/0, changed state to
up
Oct 29 22:43:51.539: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Radio2/0, changed state to up
```

Related Information

- [Cisco uBR7200 Series Universal Broadband Router Wireless Modem Card and Subsystem Installation and Configuration](#)
 - [Wireless Technology Support Page](#)
 - [Technical Support & Documentation – Cisco Systems](#)
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