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How to Properly Add QAM Elements to the DNCS

Overview

Introduction

When adding Quadrature Amplitude Modulation Modulator (QAM) elements to the Digital Network Control System (DNCS), operators must allow an adequate amount of time to pass between adding each element. Adding QAM elements to the DNCS in quick succession may cause the DNCS to become non-responsive. System operators can successfully add multiple QAM elements to the DNCS and ensure constant system operations by following the instructions in this document.

Purpose

This document explains how to properly add QAM elements to the DNCS to ensure constant system operations. Failure to follow the instructions described in this document may cause the system to become non-responsive.

Audience

This document is written for system operators who use Cisco's DNCS. Cisco engineers may also find this document to be useful.

Scope

Use these instructions when adding any of the following QAM elements to the DNCS:

- QAMs
- Multiple QAMs (MQAMs)
- Gigabit QAMs (GQAMs)
- Radio Frequency or Intermediate Frequency Gigabit Overlay QAMs (RF or IF GoQAMs)

Use these instructions for all system releases.

Document Version

This is the first release of this document.

Properly Add QAM Elements to the DNCS

You can use either of the following methods to properly add QAM elements to the DNCS. Select the method that best suits your needs:

- If you need to add one or two QAM elements, but do not need to add them immediately, monitor the sgManager process as you add a QAM element. For assistance, go to *Properly Add One or Two QAM Elements* (on page 3).
- If you need to add several QAM elements in quick succession, stop the sgManager process while you add the QAM elements. For assistance, go to *Properly Add Many QAM Elements* (on page 4).

Properly Add One or Two QAM Elements

If you need to add one or two QAM elements and do not need to add them immediately, follow this procedure to properly add these elements to the DNCS.

- 1 From the DNCS Administrative Console Status window, click **Control** in the DNCS area. The DNCS Control window opens.
- 2 Make sure the sgManager process is visible.
- 3 Begin adding a QAM element to the DNCS.

Important!

- Each time you click **Save** or **Apply** in the Set Up window, the indicator for the sgManager process changes from green to yellow. When this occurs, wait for the indicator to change from green to yellow and then back to green before clicking Save or Apply again.
- Unless the modulator has been connected and powered on as described in the Installation and Operation guide for the modulator, keep the **Administrative State** set to **Offline** (the default setting). Only change the Administrative State to Online when the modulator is connected and powered on as described in the Installation and Operation guide. Otherwise, your system may not function as expected.

Note: If the sgManager indicator does not change to green after you click Save or Apply, you may need to close the Set Up window and click a non-active area on the DNCS Administrative Console (somewhere in the gray background) to force a screen refresh.

- 4 Did the sgManager indicator change from yellow to green?
 - If **yes**, go to step 5.
 - If **no**, try closing the Set Up window by clicking **Cancel**, and then click a non-active area on the DNCS Administrative Console (somewhere in the gray background) to force a screen refresh.
- 5 Do you need to add another QAM element to the DNCS?

Properly Add QAM Elements to the DNCS

- If **yes**, return to step 3 to add another QAM element.
- If **no**, click **File** and select **Close** to close the DNCS Control window.

Properly Add Many QAM Elements

If you need to add several QAM elements in quick succession, follow this procedure to properly add these elements to the DNCS.

- 1 From the DNCS Administrative Console Status window, click **Control** in the DNCS area. The DNCS Control window opens.
- 2 Select the sgManager process. The sgManager process is highlighted.
- 3 Click **Process** and then select **Stop Process**. In a few minutes, the indicator for the process changes from green to red.

Important! Do not go to step 4 until the indicator is red.

- 4 Add QAM elements to the DNCS.

Important! Unless the modulator has been connected and powered on as described in the Installation and Operation guide for the modulator, leave the **Administrative State** set to **Offline** (the default setting). Only change the Administrative State to Online when the modulator is connected and powered on as described in the Installation and Operation guide. Otherwise, your system may not function as expected.

- 5 After you have added all the QAM elements to the DNCS, select the sgManager process in the DNCS Control window. The sgManager process is highlighted.
- 6 Click **Process** and then select **Start Process**. In a few minutes, the indicator for the sgManager process changes from red to green.

For Information

If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.



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