

# VCO/4K Extended and Standard Mode API, C-Bus, SS7, and 2Kto4K Configurator FAQs

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## Questions

### Introduction

How do I find out if the VCO is running in the standard or the extended operational mode?

What dictates whether I should use the standard Application Programming Interface (API) or the extended API?

Can I use the extended Application Programming Interface (API) when the C-Bus is disabled?

Do I have to enable the extended operation mode when I enable the C-Bus?

Can I access ports above the 2K range using the standard Application Programming Interface (API)?

How do I configure the VCO for 4K (4096 ports) mode?

What is the proper way to enable the extended operation mode and the C-Bus?

What is the advantage of running VCO in the extended operation mode when the host is not going to access any port above 0x7FF (2K) range?

How many virtual ports are supported in the standard and extended operation modes?

How many resource groups can I define in the standard and extended operation modes?

How many members (port counts) can each resource group have?

How many inpulse rules can be defined in the standard and extended operation modes?

How many outpulse rules can you define in the standard and extended operation modes?

Can the 2Kto4K Configurator run on Signaling System 7 (SS7) using the extended Application Programming Interface (API)?

What factors determine if the 2Kto4K Configurator software needs to run on the Signaling System 7 (SS7)?

### Related Information

## Introduction

This document applies to the following hardware and software components:

- Virtual Central Office (VCO) and Specialty Digital Switch (SDS) platforms
- All VCO generic versions V5.0.x and later

### Q. How do I find out if the VCO is running in the standard or the extended operational mode?

A. Check the Extended Operation Mode Set field on the System Feature Configuration screen (Main Menu > System Config > System Feature Configuration). If it is set to Y, VCO is running in the extended mode. If it is set to N, VCO is running in the standard mode.

### Q. What dictates whether I should use the standard Application Programming Interface (API) or the extended API?

A. When the extended operation mode is enabled on the VCO, you must use the extended API. When the extended operation mode is disabled, you must use the standard API.

**Q. Can I use the extended Application Programming Interface (API) when the C-Bus is disabled?**

A. Yes. As long as you enable the extended operation mode on the VCO and do not need to access any port address above 0x7FF (2K range), you can use the extended API with the C-Bus disabled.

**Q. Do I have to enable the extended operation mode when I enable the C-Bus?**

A. Yes. To access ports on the C-Bus (above 0x7FF), you must enable the extended operation mode.

**Q. Can I access ports above the 2K range using the standard Application Programming Interface (API)?**

A. No. With the standard API, you are restricted to port address 0x7FF (2K range). You must use the extended API to access ports up to 0xFFF (4K range).

**Q. How do I configure the VCO for 4K (4096 ports) mode?**

A. To configure your VCO system for accessing 4096 ports, you must enable both the C-Bus and the extended operation mode (set to Y).

**Q. What is the proper way to enable the extended operation mode and the C-Bus?**

A. Boot the system with VCO Installation Disk 1 and follow the menu options to enable these modes.

**Q. What is the advantage of running VCO in the extended operation mode when the host is not going to access any port above 0x7FF (2K) range?**

A. In the extended operation mode, you have more virtual ports and can define more resource groups, inpulse, and outpulse rules compared to the standard operation mode (for more information, refer to the following question).

**Q. How many virtual ports are supported in the standard and extended operation modes?**

A. The standard mode supports 256 (port addresses 0x8000–0x80FF) virtual ports. The extended mode supports 999 (port addresses 0x8000 – 0x83E6) virtual ports.

**Q. How many resource groups can I define in the standard and extended operation modes?**

A. In the standard mode, you can define up to 63 resource groups. In the extended operation mode, you can define up to 224 resource groups.

## **Q. How many members (port counts) can each resource group have?**

**A.** In the standard operational mode, each resource group can have a maximum of 256 members or ports. The extended operation mode supports a maximum of 1920 members or ports per resource group.

## **Q. How many impulse rules can be defined in the standard and extended operation modes?**

**A.** In the standard mode, you can define up to 30 impulse rules compared to the extended operation mode, which supports up to 255 impulse rules.

## **Q. How many outpulse rules can you define in the standard and extended operation modes?**

**A.** In the standard operation mode, you can define up to 30 outpulse rules compared to the extended operation mode, which supports up to 255 outpulse rules.

## **Q. Can the 2Kto4K Configurator run on Signaling System 7 (SS7) using the extended Application Programming Interface (API)?**

**A.** No, the VCO mode does not affect the SS7 subsystem. When the TCP/IP link between the VCO and the SS7 subsystem is established, the VCO sends a \$DC report that is analyzed by the SS7/CktInt to determine the VCO's operational mode. The VCO then formats its commands and reports accordingly.

## **Q. What factors determine if the 2Kto4K Configurator software needs to run on the Signaling System 7 (SS7)?**

**A.** This depends on the VCO to which the SS7 is connected. If the C-Bus is enabled on the VCO, you need to run the 2Kto4K Configurator on the SS7.

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## **Related Information**

- **Voice Technology Support**
- **Voice and Unified Communications Product Support**
- **Troubleshooting Cisco IP Telephony**
- **Technical Support & Documentation – Cisco Systems**

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