

DCM/D9036/VSM Statmux Pool Priority Settings

TAC

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Introduction

This document describes the additional measures taken by Cisco in order to avoid confusion with customers on the priority setting within a Statmux (SMX) setup with Cisco equipment.

- Cisco D9036– Cisco Digital Content Manager (DCM) SMX systems where Cisco DCM acts as a SMX Controller for services encoded/transcoded on a Cisco D9036.
- Multi Format Processor (MFP) – DCM SMX systems where Cisco DCM acts as a SMX Controller for services encoded/transcoded on a DCM MFP card.

Problem

Due to historical reasons, SMX implementation and in particular the meaning of "priority setting" is different for Cisco DCM MFP and Cisco DCM – D9036 SMX systems.

Cisco DCM MFP SMX

0 – lowest priority

6 – highest priority

Outputs - I/O 2 - Port 1 - Port 2 - test

Type MFP All Services

Name

Total Bit Rate (Mbps)

Algorithm

TS Overhead (Mbps)

Rate Control Group Settings

IP Address	UDP Port	ON ID	TS ID	Name	SID	Rate Mode	Min Bit Rate (Mbps)	Max Bit Rate (Mbps)	Priority (0=Low,3=Normal,6=High)
10.0.0.1	49410	1	1	EEN	4112	Statmuxed	0.5	50.0	3
10.0.0.1	49410	1	1	Canvas	4128	Statmuxed	0.5	50.0	3

Update All

Rate Mode

Min Bit Rate (Mbps)

Max Bit Rate (Mbps)

Priority (0=Low,3=Normal,6=High)

Cisco D9036 DCM SMX for Cisco DCM Versions 10.30 and Later

0 – highest priority
6 – lowest priority

Cisco D9036 DCM SMX for Cisco DCM Versions Earlier Than 10.30

0 – lowest priority
6 – highest priority

The Cisco DCM manual was not correctly updated on the changed behavior for D9036 DCM SMX for DCM Versions 10.30 and later.

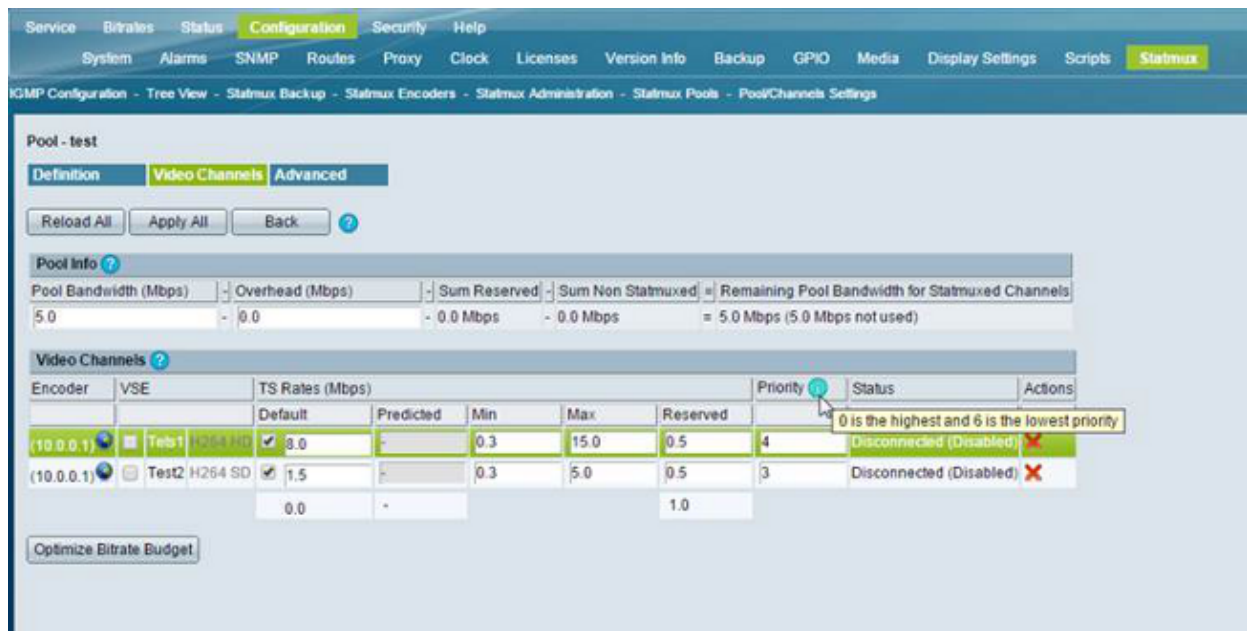
Unfortunately, it is not possible to harmonize the designs in both products for compatibility reasons with the installed base. However, a series of updates are implemented in future releases in order to avoid any confusion on this priority setting within a SMX setup, which are described in this document.

Solution

Updates in Future Releases

Modification on Cisco DCM Version 15.10.00

Modification 1 – for the Cisco D9036 – Cisco DCM–based SMX System configuration. The Cisco DCM Version 15.10.00 GUI will have an information icon.

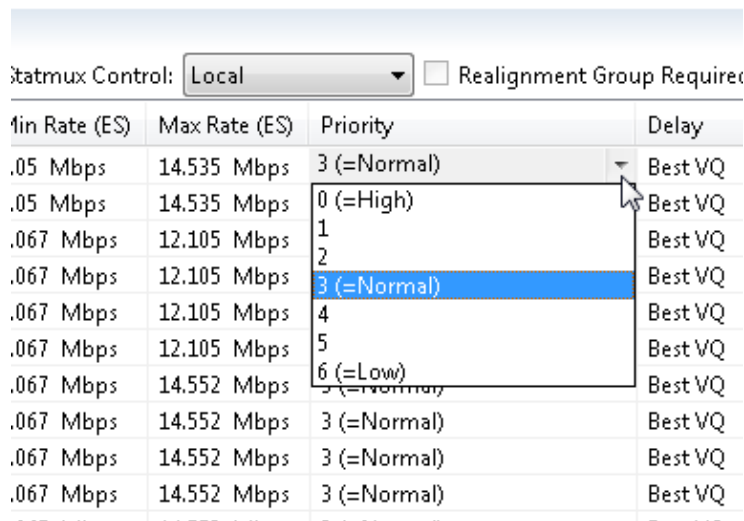


Modification 2 – the description in the online help/configuration guide is modified as follows:

Priority – This parameter can be set to prioritize which Virtual Service Encoder (VSE) get access to bandwidth if there is not enough bandwidth available. In normal circumstances, all VSEs will have the same priority setting but if a VSE has consistently low action content (for instance, a talk back show) a lower priority can be allocated to that VSE, knowing that the VSE can perhaps afford a reduction in picture quality from time to time. A value can be given between 0 (highest priority) and 6 (lowest priority).

Modification on Cisco Video Service Manager (VSM) Version 06.04.00

Modification 1 – for Cisco D9036–DCM SMX systems



Modification 2 – for Cisco DCM–MFP SMX systems

▼ MFP MPTS All: test

Statmux Algorithm: High Density ▾

	Type	Service	Rate Mode	CBR Rate (ES)	Min Bit Rate (TS)	Max Bit...te (TS)	Priority
✓	MP2 SD	Foo...42)	Statmuxed		1 Mbps	12.5 Mbps	3 (=Normal) ▾
✓	MP2 SD	HGT...41)	Statmuxed		1 Mbps	12.5 Mbps	0 (=Low)
		Total			2 Mbps...muxed)		1
							2
							3 (=Normal)
							4
							5
							6 (=High)