



QPM 2.0(x) Supported Devices and Software Releases

The tables below describe the devices and software releases that QoS Policy Manager (QPM) 2.0(x) supports, and the QoS techniques you can use on the supported platforms. Please note that the information in the tables is subject to change, depending on specific devices and their QoS support.

Supported Devices and QoS Techniques for IOS Software Releases

Cisco IOS releases supported include 11.1, 11.2, 11.3, 11.1cc, 12.0, 12.1, 12.1(2)T, 12.1(5)T, and 12.1(2)E. In addition, a Cisco IOS mapping function is used to enable QPM 2.0(x) to support 12.1(5)T and 12.1(2)E QoS techniques included in later releases of IOS main (T or E train) software.



Note

In QPM 2.0, 12.1(4)T appears as the mapped version for IOS version 12.1(5)T. The device and QoS support is the same as for 12.1(5)T.

The tables below describe the QoS techniques that you can use with the devices and IOS software releases that QPM 2.0(x) supports.

- Table 1, Part 1 on page 2, “Supported Devices and QoS Techniques for IOS Software Releases 11.x”
- Table 1, Part 2 on page 3, “Supported Devices and QoS Techniques for IOS Software Releases 12.x”

Table 1, Part 1 Supported Devices and QoS Techniques for IOS Software Releases 11.x

Quality of Service Technique	Cisco Systems Device	IOS Software Release			
		11.1	11.2	11.3	11.1(cc)
Priority queuing (PQ), custom queuing (CQ)	7500, 7200	Supported	Supported	Supported	Supported
	RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2500, 1600	Supported	Supported	Supported	-
	2600	-	-	Supported	-
	7100, RSM VIP, 7500 VIP	-	-	-	-
Weighted random early detection (WRED)	7500 VIP (uses DWRED)	-	-	-	Supported
	7500, 7200, RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2500, 1600	-	Supported	Supported	-
	2600	-	-	Supported	-
	7100, RSM VIP	-	-	-	-
Weighted fair queuing (WFQ)	7500, 7200	Supported	Supported	Supported	Supported
	RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2500, 1600	Supported	Supported	Supported	-
	2600	-	-	Supported	-
	7100	-	-	-	-
	RSM VIP (uses FQ only)	-	-	-	-
	7500 VIP (uses FQ only)	-	-	-	Supported
Distributed weighted fair queuing (DWFQ), fair queuing, and QoS group DWFQ	7500 VIP	-	-	-	Supported
	7100, RSM VIP, RSM (Catalyst 5000), 4700, 4500, 3600, 4000, 2500	-	-	-	-
Policy-based routing (PBR) (also called coloring or classification)	7500, 7200, RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2500, 1600	-	Supported	Supported	-
	2600	-	-	Supported	-
	7100, RSM VIP, 7500 VIP	-	-	-	-
Generic traffic shaping (GTS)	7500, 7200, RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2500, 1600	-	Supported	Supported	-
	2600	-	-	Supported	-
	7100, RSM VIP, 7500 VIP	-	-	-	-
Frame Relay traffic shaping (FRTS)	7500, 7200, RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2500, 1600	-	Supported	Supported	-
	2600	-	-	Supported	-
	7100, RSM VIP, 7500 VIP	-	-	-	-
Committed access rate (CAR) classification (coloring)	7500, 7500 VIP, 7200	-	-	-	Supported
	RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2500, 1600, 2600, 7100, RSM VIP	-	-	-	-

Table 1, Part 1 *Supported Devices and QoS Techniques for IOS Software Releases 11.x (continued)*

Quality of Service Technique	Cisco Systems Device	IOS Software Release			
		11.1	11.2	11.3	11.1(cc)
Committed access rate (CAR) rate limiting	7500, 7500 VIP, 7200, RSM (Catalyst 5000), 4700, 4500, 3600, 2600	-	-	-	Supported
	4000, 2500, 1600, 7100, RSM VIP	-	-	-	-
Resource reservation protocol (RSVP)	7500, 7200, 4700, 4500, 4000, 3600, 2600, 2500, 1600	-	Supported	Supported	-
	7100, RSM VIP, 7500 VIP	-	-	-	-
Compressed real-time protocol (CRTP)	7500, 7200, 7100, RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2600, 2500, 1600	-	Supported	Supported	-
	RSM VIP, 7500 VIP	-	-	-	-
Link fragmentation and interleaving (LFI)	7500, 7200, 7100, RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2600, 2500, 1600	-	-	Supported	-
	RSM VIP, 7500 VIP	-	-	-	-
Access Control	All IOS devices (except 8500)	Supported	Supported	Supported	Supported

Table 1, Part 2 *Supported Devices and QoS Techniques for IOS Software Releases 12.x*

Quality of Service Technique	Cisco Systems Device	IOS Software Release				
		12.0	12.1	12.1(2)E and later ¹	12.1(2)T	12.1(5)T and later ¹
Priority queuing (PQ)	7500	Supported	Supported	Supported	Supported	Supported
	7200	Supported	Supported	Supported	Supported	Supported
	7100	-	-	Supported	Supported	Supported
	RSM (Catalyst 5000), 4700, 4500, 3600	Supported	Supported	Supported	Supported	Supported
	4000, 2600, 2500, 1600	Supported	Supported	-	Supported	Supported
	1750, 1720	Supported	Supported	-	Supported	Supported
	RSM VIP, 7500 VIP, MSFC FlexWAN	-	-	-	-	-

Table 1, Part 2 Supported Devices and QoS Techniques for IOS Software Releases 12.x (continued)

Quality of Service Technique	Cisco Systems Device	IOS Software Release				
		12.0	12.1	12.1(2)E and later ¹	12.1(2)T	12.1(5)T and later ¹
Custom queuing (CQ)	7500	Supported	Supported	Supported	Supported	Supported
	7200	Supported	Supported	Supported	Supported	Supported
	7100	-	-	Supported	Supported	Supported
	RSM (Catalyst 5000), 4700, 4500, 3600	Supported	Supported	Supported	Supported	Supported
	4000, 2600, 2500, 1600	Supported	Supported	Supported	Supported	Supported
	1750, 1720	Supported	Supported	-	Supported	Supported
	RSM VIP, 7500 VIP, MSFC FlexWAN	-	-	-	-	-
Weighted random early detection (WRED)	7500, 7500 VIP (uses DWRED)	Supported	Supported	Supported	Supported	Supported
	7200	Supported	Supported	Supported	Supported	Supported
	7100	-	-	Supported	Supported	Supported
	1750, 1720	Supported	Supported	-	Supported	Supported
	RSM (Catalyst 5000), RSM VIP (Catalyst 5000), 4700, 4500, 4000, 3600, 2600, 2500, 1600	Supported	Supported	-	Supported	Supported
	MSFC FlexWAN	-	-	Supported	Supported	Supported
	Weighted fair queuing (WFQ) (or fair queuing (FQ) where indicated)	7500, 7500 VIP (uses FQ only)	Supported	Supported	Supported	Supported
7200		Supported	Supported	Supported	Supported	Supported
7100		-	-	Supported	Supported	Supported
1750, 1720		Supported	Supported	-	Supported	Supported
RSM (Catalyst 5000), RSM VIP (Catalyst 5000; uses FQ), 4700, 4500, 4000, 3600, 2600, 2500, 1600		Supported	Supported	-	Supported	Supported
MSFC FlexWAN		-	-	Supported	Supported	Supported
Distributed weighted fair queuing (DWFQ), fair queuing, and QoS group DWFQ		7500 VIP	-	Supported	-	-
	7500, RSM VIP (Catalyst 5000), 7200, 7100, RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2600, 2500, 1600, MSFC FlexWAN	-	-	-	-	-
Class-based weighted fair queuing (CBWFQ) using Modular CLI (MQC) with policing	7500, 7200, 4700, 4500, 4000, 3800, 3600, 2600, 2500	-	-	Supported	-	Supported
	1750, 1720	-	-	-	-	-
	7500 VIP, RSM VIP, 7100	-	-	Supported	-	Supported

Table 1, Part 2 Supported Devices and QoS Techniques for IOS Software Releases 12.x (continued)

Quality of Service Technique	Cisco Systems Device	IOS Software Release				
		12.0	12.1	12.1(2)E and later ¹	12.1(2)T	12.1(5)T and later ¹
Class-based weighted fair queuing (CBWFQ) using Modular CLI (MQC) with LLQ	7500, 7200, 4700, 4500, 3600, 2600, 2500, 1600	-	Supported	Supported	Supported	Supported
	1750, 1720	-	Supported	Supported	Supported	Supported
Class-based weighted fair queuing (CBWFQ) using MQC with LLQ + set/match classification	7500, 7200, 7100	-	-	Supported	Supported	Supported
	4700, 4500, 3600, 2600, 2500, 1600	-	-	-	Supported	Supported
	1750, 1720	-	-	-	Supported	Supported
	7500 VIP, MSFC FlexWAN	-	-	Supported	-	Supported
	RSM VIP	-	-	-	-	Supported
Class-based weighted fair queuing (CBWFQ) using MQC with RTP	7500, 7500 VIP, 7200, 4500, 3600, 2600	-	-	-	Supported	Supported
	7100, 4700, 4000, 2500, 1600	-	-	-	-	-
	1750, 1720	-	-	-	-	-
Class-based weighted fair queuing (CBWFQ) using MQC with FRTS	7500, 7200, 7100, 4700, 4500, 3600, 2600, 2500, 1600	-	-	-	Supported	Supported
	1750	-	-	-	Supported	Supported
	1720	-	-	-	-	Supported
	RSM VIP, 7500 VIP, MSFC FlexWAN	-	-	-	-	-
Class-based weighted fair queuing (CBWFQ) using MQC with GTS	7500, 7200, 7100, 4700, 4500, 3600, 2600, 2500, 1600	-	-	-	Supported	Supported
	RSM VIP, 7500 VIP, MSFC FlexWAN	-	-	-	-	-
	1750, 1720	-	-	-	-	Supported
Class-based weighted fair queuing (CBWFQ) using MQC with dTS and dFRF	7500 VIP	-	-	Supported	-	Supported
	MSFC FlexWAN	-	-	Supported (no dFRF)	-	Supported (no dFRF)

Table 1, Part 2 Supported Devices and QoS Techniques for IOS Software Releases 12.x (continued)

Quality of Service Technique	Cisco Systems Device	IOS Software Release				
		12.0	12.1	12.1(2)E and later ¹	12.1(2)T	12.1(5)T and later ¹
IP RTP Priority (“PQ+WFQ”)	7500	-	Supported	Supported	Supported	Supported
	7200	-	Supported	Supported	Supported	Supported
	7100	-	-	Supported	Supported	Supported
	4000	-	Supported	Supported	Supported	Supported
	1750	-	-	-	Supported	Supported
	1720	-	-	-	-	Supported
	4700, 4500, 3600, 2600, 2500	-	Supported	-	Supported	Supported
	1600	-	Supported	-	-	-
	RSM VIP, 7500 VIP, MSFC FlexWAN	-	-	-	-	-
Policy-based routing (PBR) (also called coloring or classification)	7500, 7500 VIP, 7200, 7100, RSM (Catalyst 5000), RSM VIP (Catalyst 5000), 4700, 4500, 3600, 2600	-	-	-	-	-
	4000	Supported	Supported	-	Supported	Supported
	2500, 1600	Supported	Supported	-	-	-
Generic traffic shaping (GTS)	7500	Supported	Supported	Supported	Supported	Supported
	7200	Supported	Supported	Supported	Supported	Supported
	7100	-	-	Supported	Supported	Supported
	1750, 1720	Supported	Supported	-	Supported	Supported
	RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2600, 2500, 1600	Supported	Supported	-	Supported	Supported
	7500 VIP, RSM VIP (Catalyst 5000)	-	-	-	-	-
	MSFC FlexWAN	-	-	-	-	-
Frame Relay traffic shaping (FRTS)	7500	Supported	Supported	Supported	Supported	Supported
	7200	Supported	Supported	Supported	Supported	Supported
	7100	-	-	Supported	Supported	Supported
	1750, 1720	Supported	Supported	-	Supported	Supported
	RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2600, 2500, 1600	Supported	Supported	-	Supported	Supported
	7500 VIP, RSM VIP (Catalyst 5000)	-	-	-	-	-
	MSFC FlexWAN	-	-	-	-	-

Table 1, Part 2 Supported Devices and QoS Techniques for IOS Software Releases 12.x (continued)

Quality of Service Technique	Cisco Systems Device	IOS Software Release				
		12.0	12.1	12.1(2)E and later ¹	12.1(2)T	12.1(5)T and later ¹
Enhanced FRTS with Frame Relay fragmentation (FRF.12), Frame Relay fair queue, and Frame Relay voice configuration	7200	-	Supported	-	Supported	Supported
	3600, 2600	-	Supported	-	Supported	Supported
	7500, 7100, RSM VIP	-	-	-	-	Supported
	1750, 1720	-	-	-	-	Supported
Committed access rate (CAR) classification (also called coloring)	7500, 7500 VIP, 7200	Supported	Supported	Supported	Supported	Supported
	7100	-	-	Supported	Supported	Supported
	1750, 1720	Supported	Supported	-	Supported	Supported
	RSM (Catalyst 5000), RSM VIP (Catalyst 5000), 4700, 4500, 3600, 2600	Supported	Supported	-	Supported	Supported
	2500, 1600	-	Supported	-	Supported	Supported
	MSFC FlexWAN	-	-	Supported	Supported	Supported
	4000	-	-	-	-	-
Committed access rate (CAR) rate limiting	7500, 7500 VIP, 7200	Supported	Supported	Supported	Supported	Supported
	7100	-	-	-	-	Supported
	RSM VIP (Catalyst 5000)	Supported	Supported	-	Supported	Supported
	1750, 1720	Supported	Supported	-	Supported	Supported
	RSM (Catalyst 5000), 4700, 4500, 3600, 2600	Supported	Supported	-	-	Supported
	2500, 1600	-	-	-	Supported	Supported
	MSFC FlexWAN	-	-	Supported	Supported	Supported
Weighted round robin (WRR)	Catalyst 8510, Catalyst 8540	Supported	Supported	-	-	-
	Catalyst 4003 with L3, Catalyst 4006 with L3, 4908GL-3, 2948GL-3	Supported	Supported	-	-	-
Resource reservation protocol (RSVP)	7500	Supported	Supported	Supported	Supported	Supported
	7200	Supported	Supported	Supported	Supported	Supported
	7100	-	-	Supported	Supported	Supported
	4000	Supported	Supported	Supported	Supported	Supported
	7500 VIP, MSFC FlexWAN	-	-	Supported	Supported	-
	4700, 4500, 3600, 2600, 2500	Supported	Supported	-	Supported	Supported
	1600	Supported	Supported	-	-	-
RSM VIP	-	-	-	-	-	

Table 1, Part 2 *Supported Devices and QoS Techniques for IOS Software Releases 12.x (continued)*

Quality of Service Technique	Cisco Systems Device	IOS Software Release				
		12.0	12.1	12.1(2)E and later ¹	12.1(2)T	12.1(5)T and later ¹
Network-based application recognition (NBAR)	7200, 7100	-	-	Supported	-	Supported
	7500 VIP	-	-	-	-	-
	2600, 3600	-	-	-	-	Supported
Compressed real-time protocol (CRTP)	7500, 7200, 7100, RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2600, 2500	Supported	Supported	Supported	Supported	Supported
	1600	Supported	Supported	-	-	-
	1750, 1720	Supported	Supported	-	Supported	Supported
	7500 VIP, RSM VIP, MSFC FlexWAN	-	-	-	-	-
Link Fragmentation and Interleaving (LFI)	7500, 7200, 7100, RSM (Catalyst 5000), 4700, 4500, 4000, 3600, 2600, 2500	Supported	Supported	Supported	Supported	Supported
	1600	Supported	Supported	-	-	-
	1750, 1720	Supported	Supported	-	Supported	Supported
	7500 VIP, RSM VIP, MSFC FlexWAN	-	-	-	-	-
Access control	All IOS devices, except 8500	Supported	Supported	Supported	Supported	Supported

1. A Cisco IOS mapping function is used to enable QPM 2.0(x) to support 12.1(5)T and 12.1(2)E QoS techniques included in later releases of IOS main (T or E train) software.

Supported Devices and QoS Techniques for CATOS Software Releases

Cisco CATOS releases supported include 5.4, 5.5, and 6.1. In addition, a Cisco CATOS mapping function is used to enable QPM 2.0(x) to work with the supported QoS techniques of 5.4, 5.5, and 6.1 in later releases of CATOS.

The table below describes the QoS techniques that you can use with the devices and CATOS software releases that QPM supports.

Table 2 *Supported Devices and QoS Techniques for Catalyst Operating System*

Quality of Service Technique	Cisco Systems Device	Catalyst Software Release		
		5.4	5.5	6.1 and later ¹
Classification (coloring)	Catalyst 5000 family with NFFC-II	Supported	Supported	Supported
	Catalyst 6000 family with PFC	Supported	Supported	Supported
Traffic policing including microflows	Catalyst 6000 family with PFC	Supported	Supported	Supported
2Q2T queuing, 1P2Q2T queuing	Catalyst 6000 family with PFC	Supported	Supported	Supported

1. A Cisco CATOS mapping function is used to enable QPM 2.0(x) to work with the supported QoS techniques of 5.4, 5.5, and 6.1 in later releases of CATOS.

Supported Device Software Releases and QoS Techniques for Other Devices

The table below describes the QoS techniques that you can use with other devices and device software releases that QPM 2.0(x) supports.

Table 3 *Supported Device Software Releases and QoS Techniques for Other Devices*

Quality of Service Technique	Cisco Systems Device	Device Software Release
Packet classification (coloring)	LocalDirector	3.1.1

More Information

For more information about QPM 2.0(x) and the CiscoWorks2000 product family, please see the following URLs:

<http://www.cisco.com/warp/public/cc/pd/wr2k/qoppmn/>

<http://www.cisco.com/warp/public/cc/pd/wr2k/>

