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802.1Qbu - Frame Preemption

The full title of this PAR is "Standard for Local and Metropolitan Area Networks-Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks - Amendment: Frame Preemption".

This amendment specifies procedures, managed objects, and protocol extensions that:

- Define a class of service for time-critical frames that requests the transmitter in a bridged Local Area Network to suspend the transmission of a non-time-critical frame, and allow for one or more time-critical frames to be transmitted. When the time-critical frames have been transmitted, the transmission of the preempted frame is resumed. A non-time-critical frame could be preempted multiple times.
- Provide for discovery, configuration, and control of preemption service for a bridge port and end station.
- Ensure that preemption is only enabled on a given link if both link partners have that capability.

The purpose of this amendment is to provide reduced latency transmission for scheduled, time-critical frames in a bridged LAN.

A large, non-time-critical frame may start ahead of time-critical frame transmission. This condition leads to excessive latency for the time-critical frame. The lack of transmission preemption severely inhibits the capabilities of an application that uses scheduled frame transmission to implement a real-time control network.

Current Status

Status	PAR approved 15th May 2012.
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Archive

Date	Document
19 Aug 2013	802.1Qbu, Draft 0.0
04 Jul 2014	802.1Qbu, Draft 0.1
28 Jul	802.1Qbu, Draft 1.0

2014	
28 Aug 2014	802.1Qbu, Draft 1.0 proposed comment dispositions
29 Aug 2014	802.1Qbu, Draft 1.0 proposed comment dispositions
01 Sep 2014	802.1Qbu, Draft 1.0 proposed comment dispositions
29 Sep 2014	802.1Qbu, Draft 1.0 comment dispositions
16 Oct 2014	802.1Qbu, Draft 1.1
02 Nov 2014	802.1Qbu, Draft 1.1 proposed comment dispositions
21 Nov 2014	802.1Qbu, Draft 1.1 comment dispositions
01 Dec 2014	802.1Qbu, Draft 2.0
11 Jan 2015	802.1Qbu, Draft 2.0 proposed comment dispositions
22 Jan 2015	802.1Qbu, Draft 2.0 comment dispositions
22 Jan 2015	802.1Qbu, Draft 2.0 comment dispositions
13 Feb 2015	802.1Qbu, Draft 2.1
10 Mar 2015	802.1Qbu, Draft 2.1 proposed comment dispositions
10 Mar 2015	802.1Qbu, Draft 2.1 proposed comment dispositions
12 Mar 2015	802.1Qbu, Draft 2.1 comment dispositions
01 May 2015	802.1Qbu, Draft 2.2
17 May 2015	802.1Qbu, Draft 2.2 proposed comment dispositions
21 May 2015	802.1Qbu, Draft 2.2 comment dispositions
04 Jun 2015	802.1Qbu, Draft 2.3
10 Jul 2015	802.1Qbu, Draft 2.3 proposed comment dispositions
15 Jul 2015	802.1Qbu, Draft 2.3 comment dispositions
29 Jul 2015	802.1Qbu, Draft 3.0
02 Sep 2015	802.1Qbu, Draft 3.0 proposed comment dispositions
25 Sep 2015	802.1Qbu, Draft 3.0 comment dispositions

07 Oct 2015	802.1Qbu, Draft 3.1 comment dispositions
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Presentations

Date	Document
18 Jul 2012	Presentation bu-mjt-bu-goals-for-ethernet-0712.pdf
20 Mar 2013	Presentation bu-boiger-TAS-in-combination-with-Qbu-0313.pdf
16 May 2013	Presentation bu-boiger-IET-and-TAS-0513.pdf
15 May 2014	Presentation bu-nfinn-status-for-802-3-0514-v01.pdf
10 Sep 2014	Presentation bu-boiger-CBS-Preemption-Support-0914-v01.pdf
11 Sep 2014	Presentation bu-thaler-iet-management-model-alternatives-v01.pdf

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