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# P802.1Qcr – Bridges and Bridged Networks Amendment: Asynchronous Traffic Shaping

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The full title of this PAR is “Standard for Local and Metropolitan Area Networks – Bridges and Bridged Networks Amendment: Asynchronous Traffic Shaping”.

This project specifies procedures and managed objects for a bridge to perform asynchronous traffic shaping over full-duplex links with constant bit data rates. Asynchronous traffic shaping provides an additional layer of shaped egress queues to merge flows into the existing queue structure. The required minimum number of independent queues at an egress port is adjustable and is at least the number of ingress ports of the particular bridge that require merging. The project provides an informative framework for worst case delay analysis in static networks/configurations.

There is well defined traffic that requires zero congestion loss and deterministic latency. Current bridging standards do not provide a sufficiently fine grained asynchronous traffic mechanism to meet these requirements without using network topology information. This project specifies mechanisms that do not rely on synchronous communication, thereby providing independence from clock synchronization mechanisms and higher link utilization than synchronous mechanisms.

## Current Status

<b>Status</b>	PAR ( <a href="https://development.standards.ieee.org/P946200033/par">https://development.standards.ieee.org/P946200033/par</a> ) approved Jun 30, 2016, TG ballot
<b>Editor</b>	Johannes Specht ( <a href="mailto:johannes.specht@uni-due.de">mailto:johannes.specht@uni-due.de</a> )

## Archive

Date	Document
09 Jan 2017	802.1Qcr, Draft 0.0 ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-0.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-0.pdf</a> )
26 Apr 2017	802.1Qcr, Draft 0.1 ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-1.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-1.pdf</a> )
15 May 2017	802.1Qcr, Draft 0.1: Proposed comment dispositions version 1 ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-1-pdis-v1.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-1-pdis-v1.pdf</a> )
27 Jun 2017	802.1Qcr, Draft 0.1: Proposed comment dispositions version 2 ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-1-pdis-v2.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-1-pdis-v2.pdf</a> )

20 Oct 2017	802.1Qcr, Draft 0.1: Comment dispositions ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-1-dis.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-1-dis.pdf</a> )
20 Oct 2017	802.1Qcr, Draft 0.2 ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-2.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-2.pdf</a> )
06 Nov 2017	802.1Qcr, Draft 0.2: Proposed comment dispositions ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-2-pdis-v00.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-2-pdis-v00.pdf</a> )
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22 Dec 2017	802.1Qcr, Draft 0.3 ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-3.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-3.pdf</a> )
22 Jan 2018	802.1Qcr, Draft 0.3: Proposed comment dispositions version 1 ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-3-pdis-v00.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-3-pdis-v00.pdf</a> )
24 Jan 2018	802.1Qcr, Draft 0.3: Proposed comment dispositions version 2 ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-3-pdis-v01.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-3-pdis-v01.pdf</a> )
26 Jan 2018	802.1Qcr, Draft 0.3: Comment dispositions ( <a href="http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-3-dis.pdf">http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-3-dis.pdf</a> )

## Presentations

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21 May 2015	Presentation new-tsn-specht-ubs-queues-0521-v0.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2015/new-tsn-specht-ubs-queues-0521-v0.pdf">http://www.ieee802.org/1/files/public/docs2015/new-tsn-specht-ubs-queues-0521-v0.pdf</a> )
24 May 2016	Presentation Qcr-specht-specification-mapping-proposal-0516-v01.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2016/Qcr-specht-specification-mapping-proposal-0516-v01.pdf">http://www.ieee802.org/1/files/public/docs2016/Qcr-specht-specification-mapping-proposal-0516-v01.pdf</a> )
27 Jul 2016	Presentation cr-nadas-combining-ATS-and-SRS-0716-v01.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2016/cr-nadas-combining-ATS-and-SRS-0716-v01.pdf">http://www.ieee802.org/1/files/public/docs2016/cr-nadas-combining-ATS-and-SRS-0716-v01.pdf</a> )
13 Sep 2016	Presentation cr-nadas-combining-ATS-and-SRS-0916-v01.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2016/cr-nadas-combining-ATS-and-SRS-0916-v01.pdf">http://www.ieee802.org/1/files/public/docs2016/cr-nadas-combining-ATS-and-SRS-0916-v01.pdf</a> )
10 Nov 2016	Presentation Qcr-specht-editing-1116-v01.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2016/Qcr-specht-editing-1116-v01.pdf">http://www.ieee802.org/1/files/public/docs2016/Qcr-specht-editing-1116-v01.pdf</a> )

12 Dec 2016	Presentation cr-nadas-SRS-for-TSN-use-cases-1216-v01.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2016/cr-nadas-SRS-for-TSN-use-cases-1216-v01.pdf">http://www.ieee802.org/1/files/public/docs2016/cr-nadas-SRS-for-TSN-use-cases-1216-v01.pdf</a> )
21 Feb 2017	Presentation cr-seaman-paternoster-policing-scheduling-0217-v02.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2017/cr-seaman-paternoster-policing-scheduling-0217-v02.pdf">http://www.ieee802.org/1/files/public/docs2017/cr-seaman-paternoster-policing-scheduling-0217-v02.pdf</a> )
13 Mar 2017	Presentation cr-seaman-paternoster-policing-scheduling-0317-v03.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2017/cr-seaman-paternoster-policing-scheduling-0317-v03.pdf">http://www.ieee802.org/1/files/public/docs2017/cr-seaman-paternoster-policing-scheduling-0317-v03.pdf</a> )
15 Mar 2017	Presentation cr-seaman-paternoster-ppt-0317-v01.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2017/cr-seaman-paternoster-ppt-0317-v01.pdf">http://www.ieee802.org/1/files/public/docs2017/cr-seaman-paternoster-ppt-0317-v01.pdf</a> )
06 Nov 2017	Presentation cr-specht-yang-1117-v01.pdf ( <a href="http://ieee802.org/1/files/public/docs2017/cr-specht-yang-1117-v01.pdf">http://ieee802.org/1/files/public/docs2017/cr-specht-yang-1117-v01.pdf</a> )

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