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# P802.1Qci – Per-Stream Filtering and Policing

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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: Per-Stream Filtering and Policing”.

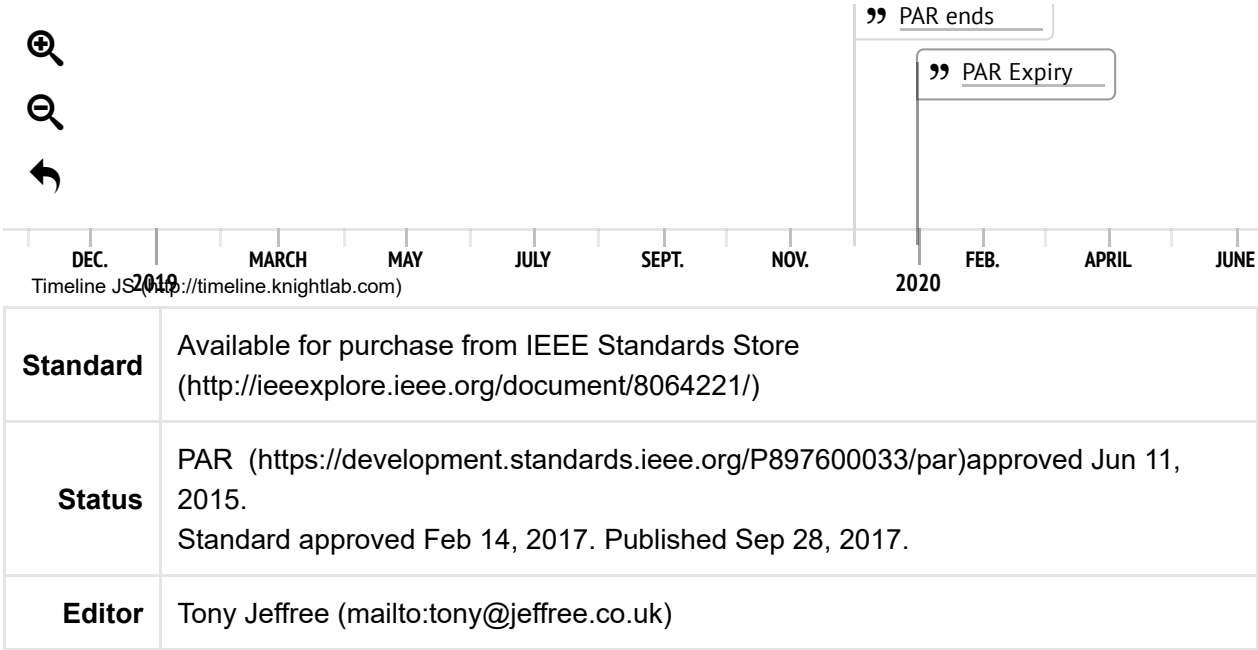
This standard specifies procedures and managed objects for a bridge to perform frame counting, filtering, policing, and service class selection for a frame based on the particular data stream to which the frame belongs, and a synchronized cyclic time schedule. Policing and filtering functions include the detection and mitigation of disruptive transmissions by other systems in a network, improving the robustness of that network.

The development of standards for Time-Sensitive Networking (TSN) have shown that there exist no interoperable standards that enable a bridge to detect whether or not some systems in a network are conforming to behaviors agreed by configuration and/or protocol exchanges. For example, devices that exceed the allocated bandwidth for one stream can prevent the network from achieving the benefits of TSN for any or all streams, not just the misbehaving stream.

## Current Status

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07 Jul 2016	802.1Qci, Draft 1.2 ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-d1-2.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-d1-2.pdf</a> )
25 Jul 2016	802.1Qci, Draft 1.2 proposed comment dispositions ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-D1-2-pdis-v1.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-D1-2-pdis-v1.pdf</a> )
22 Aug 2016	802.1Qci, Draft 1.3 ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-d1-3.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-d1-3.pdf</a> )
10 Sep 2016	802.1Qci, Draft 1.3 proposed comment dispositions ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-D1-3-pdis-v1.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-D1-3-pdis-v1.pdf</a> )
13 Sep 2016	802.1Qci, Draft 1.3 comment dispositions ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-D1-3-dis.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-D1-3-dis.pdf</a> )
13 Sep 2016	802.1Qci, Draft 1.4 ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-d1-4.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-d1-4.pdf</a> )
04 Oct 2016	802.1Qci, Draft 1.4 comment dispositions ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-D1-4-dis.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-D1-4-dis.pdf</a> )
04 Oct 2016	802.1Qci, Draft 2.0 ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-d2-0.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-d2-0.pdf</a> )
04 Nov 2016	802.1Qci, Draft 2.0 proposed comment dispositions ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-D2-0-pdis.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-D2-0-pdis.pdf</a> )
09 Nov 2016	802.1Qci, Draft 2.0 comment dispositions ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-D2-0-dis.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-D2-0-dis.pdf</a> )
15 Nov 2016	802.1Qci, Draft 2.1 ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-d2-1.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-d2-1.pdf</a> )
26 Nov 2016	802.1Qci, Draft 2.1 comment dispositions ( <a href="http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-D2-1-dis.pdf">http://www.ieee802.org/1/files/private/ci-drafts/d2/802-1Qci-D2-1-dis.pdf</a> )

## Presentations

Date	Document
24 May 2016	Presentation ci-zebralla-block-streams-0516-v01.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2016/ci-zebralla-block-streams-0516-v01.pdf">http://www.ieee802.org/1/files/public/docs2016/ci-zebralla-block-streams-0516-v01.pdf</a> )
27 Jul 2016	Presentation ci-farkas-asynchron-gates-0716-v01.pdf ( <a href="http://www.ieee802.org/1/files/public/docs2016/ci-farkas-asynchron-gates-0716-v01.pdf">http://www.ieee802.org/1/files/public/docs2016/ci-farkas-asynchron-gates-0716-v01.pdf</a> )

