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802.1Qca - Path Control and Reservation

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: Path Control and Reservation".

This project extends the application of Intermediate System to Intermediate System (IS-IS) to control bridged networks (beyond the capabilities of Shortest Path Bridging) and specifies additional protocols, procedures and managed objects. The new standard will provide explicit path control, bandwidth and stream reservation, redundancy (protection or restoration) for data flows and distribution of control parameters for time synchronization and scheduling.

There is no control protocol that integrates the required control features. The new control protocol will provide explicit forwarding path control thus enabling the use of non-shortest paths. It will also integrate a tool for bandwidth and stream reservation along the forwarding path. Resiliency control mechanisms will be also provided for the data traffic. In addition, the new standard will support carrying control information using IS-IS for time synchronization and scheduling.

Current Status

Status	PAR approved 5th Dec 2012.
Editor	János Farkas

Archive

Date	Document
19 Mar 2013	802.1ca, Draft 0.0
15 May 2013	802.1ca, Draft 0.1
13 Jul 2013	802.1ca, Draft 0.2
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22 Oct 2013	802.1Qca, Draft 0.3 comment dispositions
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20 Feb 2014	802.1Qca, Draft 0.5 comment dispositions
25 Feb 2014	802.1Qca, Draft 0.6
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27 Mar 2014	802.1Qca, Draft 0.6 comment dispositions
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25 Jun 2014	802.1Qca, Draft 0.8
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05 Aug 2014	802.1Qca, Draft 1.0
08 Sep 2014	802.1Qca, Draft 1.0 proposed comment dispositions
17 Sep 2014	802.1Qca, Draft 1.0 comment dispositions
26 Sep 2014	802.1Qca, Draft 1.1
03 Nov 2014	802.1Qca, Draft 1.1 proposed comment dispositions
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12 Dec 2014	802.1Qca, Draft 1.2

12 Jan 2015	802.1Qca, Draft 1.2 proposed comment dispositions
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07 Apr 2015	802.1Qca, Draft 2.0
12 May 2015	802.1Qca, Draft 2.0 proposed comment dispositions
18 May 2015	802.1Qca, Draft 2.0 proposed comment dispositions
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23 Jun 2015	802.1Qca, Draft 2.1
12 Jul 2015	802.1Qca, Draft 2.1 proposed comment dispositions
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Presentations

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15 Jan 2013	Presentation ca-farkas-proposal-0113-v01.pdf
15 Jan 2013	Presentation ca-nbragg-SPB-Explicit-Routes-0113-v01.pdf
15 May 2013	Presentation ca-farkas-editors-notes-0513-v01.pdf
04 Jul 2013	Presentation ca-farkas-LFA-SPBM-unicast-0513-v02.pdf
16 Jul 2013	Presentation ca-farkas-SRP-ISIS-interworking-0713-v01.pdf
16 Jul 2013	Presentation ca-farkas-editors-notes-0713-v01.pdf
18 Jul 2013	Presentation ca-kiessling-ISIS-SPB-PCR-for-TSN-0713-v02.pdf
04 Sep 2013	Presentation ca-farkas-editor-report-0913-v01.pdf
12 Nov 2013	Presentation ca-farkas-d0-4-operation-v01.pdf
12 Nov 2013	Presentation ca-farkas-editor-report-1113-v01.pdf

12 Nov 2013	Presentation ca-nbragg-routing-structures-v02.pdf
22 Jan 2014	Presentation ca-farkas-editor-report-0114-v01.pdf
22 Jan 2014	Presentation ca-farkas-generalized-spb-0114-v01.pdf
22 Jan 2014	Presentation ca-farkas-mrt-0114-v01.pdf
22 Jan 2014	Presentation ca-kiessling-ISIS-PCR-and-TSN-0114-v01.pdf
17 Mar 2014	Presentation ca-farkas-LFA-SPBM-multicast-0314-v01.pdf
17 Mar 2014	Presentation ca-farkas-editor-report-0314-v01.pdf
19 Mar 2014	Presentation ca-nfinn-another-approach-0314-v02.pdf
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19 May 2015	Presentation ca-farkas-mrt-operation-0515-v03.pdf
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