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# P802.1CM – Time-Sensitive Networking for Fronthaul

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This standard defines profiles that select features, options, configurations, defaults, protocols and procedures of bridges, stations and LANs that are necessary to build networks that are capable of transporting fronthaul streams, which are time sensitive.

The purpose of this standard is to enable the transport of time sensitive fronthaul streams in Ethernet bridged networks.

A mobile operator's radio equipment and radio equipment controller are often separated and the connection between them has very stringent requirements. This fronthaul connection is not provided by a bridged network today. In an IEEE 802.1 bridged network potentially carrying other categories of traffic, specific configurations of various IEEE 802 standards are needed to meet the requirements of the fronthaul streams. Therefore, the use and the configurations of functions defined in the IEEE 802 standards have to be specified by standard profiles for bridged fronthaul networks.

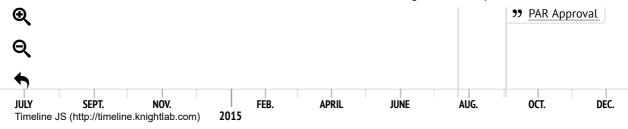
### **Current Status**

Status	Sponsor recirculation ballot	
Current Draft	(····‡········	
PAR & CSD	Full title: Time-Sensitive Networking for Fronthaul PAR (https://development.standards.ieee.org/P908100033/par) approved 3 Sep 2015; CSD (http://www.ieee802.org/1/files/public/docs2015/new-P802-1CM-draft-CSD-0515-v02.pdf)	
Editor	János Farkas (mailto:janos.farkas@ericsson.com)	

### **Timeline**



99 PAR Reques...



# **Archive**

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14 Mar 2018	P802.1CM, Draft 2.2 (http://www.ieee802.org/1/files/private/cm-drafts/d2/802-1CM-d2-2.pdf)
19 Jan 2018	P802.1CM, Draft 2.0 (http://www.ieee802.org/1/files/private/cm-drafts/d2/802-1CM-d2-0.pdf)
	P802.1CM, Draft 2.0 comment dispositions (http://ieee802.org/1/files/private/cm-drafts/d2/802-1CM-d2-0-dis-v02.pdf)
21 Dec 2017	P802.1CM, Draft 1.2 (http://www.ieee802.org/1/files/private/cm-drafts/d1/802-1CM-d1-2.pdf)
	P802.1CM, Draft 1.2 comment dispositions (http://www.ieee802.org/1/files/private/cm-drafts/d1/802-1CM-d1-2-dis-v01.pdf)
22 Sep 2017	P802.1CM, Draft 1.0 (http://www.ieee802.org/1/files/private/cm-drafts/d1/802-1CM-d1-0.pdf)
	P802.1CM, Draft 1.0 comment dispositions (http://www.ieee802.org/1/files/private/cm-drafts/d1/802-1CM-d1-0-dis-v03.pdf)
16 Jun 2017	P802.1CM, Draft 0.7 (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-7.pdf)
	P802.1CM, Draft 0.7 comment dispositions (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-7-dis-v01.pdf)
18 Feb 2017	P802.1CM, Draft 0.6 (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-6.pdf)
	P802.1CM, Draft 0.6 comment dispositions (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-6-dis-v01.pdf)
15 Oct 2016	P802.1CM, Draft 0.5 (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-5.pdf)
	P802.1CM, Draft 0.5 comment dispositions (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-5-dis-v01.pdf)
01 Jul 2016	P802.1CM, Draft 0.4 (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-4.pdf)
	P802.1CM, Draft 0.4 comment dispositions (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-4-dis-v01.pdf)

20 May 2016	P802.1CM, Draft 0.3 (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-3.pdf)
13 Mar 2016	P802.1CM, Draft 0.2 (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-2.pdf)
18 Jan 2016	P802.1CM, Draft 0.1 (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-1.pdf)
08 Sep 2015	P802.1CM, Draft 0.0 (http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-0.pdf)

The above list includes only the latest version of (proposed) dispositions. See the project folder (http://www.ieee802.org/1/files/private/cm-drafts) for a complete list). The dates listed are the website file dates; they may differ from the creation dates in the documents.

## **Presentations and contributions**

27 Jan 2018	P802.1CM Overview (https://www.itu.int/en/ITU-T/Workshops-and- Seminars/20180127/Documents/4.%20Janos%20Farkas.pdf) at IEEE 802 and ITU-T SG 15 joint workshop (https://www.itu.int/en/ITU-T/Workshops-and- Seminars/20180127/Pages/default.aspx)
26 Jan 2018	Editor's report (http://ieee802.org/1/files/public/docs2018/cm-farkas-editor-report-0118-v01.pdf) (cm-farkas-editor-report-0118-v01.pdf (http://ieee802.org/1/files/public/docs2018/cm-farkas-editor-report-0118-v01.pdf))
06 Nov 2017	Strict Priority in P802.1CM (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-strict-priority-1117-v01.pdf) (cm-farkas-strict-priority-1117-v01.pdf (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-strict-priority-1117-v01.pdf))
06 Nov 2017	Editor's report on D1.0 (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-editor-report-d1-0-1117-v02.pdf) (cm-farkas-editor-report-d1-0-1117-v02.pdf (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-editor-report-d1-0-1117-v02.pdf))
30 Oct 2017	Comment #1 on D1.0 (http://www.ieee802.org/1/files/public/docs2017/cm-CPRI-D1-0-comment-1-1017.pdf) (cm-CPRI-D1-0-comment-1-1017.pdf) (http://www.ieee802.org/1/files/public/docs2017/cm-CPRI-D1-0-comment-1-1017.pdf))
06 Sep 2017	eCPRI Overview (http://www.ieee802.org/1/files/public/docs2017/cm-mustala-eCPRI-Overview-0917.pdf) (cm-mustala-eCPRI-Overview-0917.pdf (http://www.ieee802.org/1/files/public/docs2017/cm-mustala-eCPRI-Overview-0917.pdf))

06 Sep 2017	Support for eCPRI in P802.1CM (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-eCPRI-support-0917-v01.pdf) (cm-farkas-eCPRI-support-0917-v01.pdf (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-eCPRI-support-0917-v01.pdf)) backup material on ON/OFF traffic model (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-leveraging-ON-OFF-traffic-model-0917-v01.pdf)(cm-farkas-eCPRI-support-0917-v01.pdf (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-leveraging-ON-OFF-traffic-model-0917-v01.pdf))
10 Jul 2017	eCPRI Update (http://www.ieee802.org/1/files/public/docs2017/cm-mustala-eCPRI-update-0717.pdf) (cm-mustala-eCPRI-update-0717.pdf (http://www.ieee802.org/1/files/public/docs2017/cm-mustala-eCPRI-update-0717.pdf))
09 Jul 2017	Editor's report on D0.7 (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-editor-report-d0-7-0717-v02.pdf) (cm-farkas-editor-report-d0-7-0717-v02.pdf (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-editor-report-d0-7-0717-v02.pdf))
14 May 2017	P802.1CM Overview for MEF MBH IA (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-overview-for-MEF-MBH-IA-0417.pptx) (cm-farkas-overview-for-MEF-MBH-IA-0417.pptx (http://www.ieee802.org/1/files/public/docs2017/cm-farkas-overview-for-MEF-MBH-IA-0417.pptx))
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15 Sep 2016	Presentation cm-baosh-synchronization-comments-on-D0-4-0916-v02.pdf (http://www.ieee802.org/1/files/public/docs2016/cm-baosh-synchronization-comments-on-D0-4-0916-v02.pdf)
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20 Jan 2016	Presentation cm-varga-CPRI-packetloss-considerations-0116-v02.pdf (http://www.ieee802.org/1/files/public/docs2016/cm-varga-CPRI-packetloss-considerations-0116-v02.pdf)
20 Jan 2016	Presentation cm-farkas-delay-pdv-0116-v01.pdf (http://www.ieee802.org/1/files/public/docs2016/cm-farkas-delay-pdv-0116-v01.pdf)
20 Jan 2016	Presentation cm-bragg-CPRI-over-switched-Ethernet-0116-v01.pdf (http://www.ieee802.org/1/files/public/docs2016/cm-bragg-CPRI-over-switched-Ethernet-0116-v01.pdf)

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Presentation cm-varga-towards-cpri-parameters-1115-v01.pdf (http://www.ieee802.org/1/files/public/docs2015/cm-varga-towards-cpri-parameters-1115-v01.pdf)
P802.1CM TSN for Fronthaul – Introduction (http://www.ieee802.org/1/files/public/docs2015/cm-farkas-intro-1115-v03.pdf) (cm-farkas-ntro-1115-v03.pdf (http://www.ieee802.org/1/files/public/docs2015/cm-farkas-intro-1115-v03.pdf))
P802.1CM TSN for Fronthaul – Goals, PAR, CSD (http://www.ieee802.org/1/files/public/docs2015/new-cm-farkas-scope-0615.pdf) (new-cm-farkas-scope-0615.pdf (http://www.ieee802.org/1/files/public/docs2015/new-cm-farkas-scope-0615.pdf))
TSN Fronthaul Considerations (http://www.ieee802.org/1/files/public/docs2015/TSN-chen-Fronthaul_Considerations-0315-v2.pdf) (TSN-chen-Fronthaul_Considerations-0315-v2.pdf (http://www.ieee802.org/1/files/public/docs2015/TSN-chen-Fronthaul_Considerations-0315-v2.pdf))
TSN for Fronthaul (http://www.ieee802.org/1/files/public/docs2015/new-farkas-tsn-for-fronthaul-0315-v01.pdf) (new-farkas-tsn-for-fronthaul-0315-v01.pdf) (http://www.ieee802.org/1/files/public/docs2015/new-farkas-tsn-for-fronthaul-0315-v01.pdf))
CPRI overview (http://www.ieee802.org/1/files/public/docs2015/liaison-CPRI_Tdoc_1124_presentation-0315.pdf) (liaison-CPRI_Tdoc_1124_presentation-0315.pdf (http://www.ieee802.org/1/files/public/docs2015/liaison-CPRI_Tdoc_1124_presentation-0315.pdf))

04 Nov 2014	CPRI "FrontHaul" requirements – continuing discussion with TSN (http://www.ieee802.org/1/files/public/docs2014/new-ashwood-tsn-cpri-fronthaul-1101-v01.pdf) (new-ashwood-tsn-cpri-fronthaul-1101-v01.pdf (http://www.ieee802.org/1/files/public/docs2014/new-ashwood-tsn-cpri-fronthaul-1101-v01.pdf))
11 Sep 2014	Mobile Networks: Transport Impacts (http://www.ieee802.org/1/files/public/docs2014/new-irvine-mobile-networks-fronthaul-0914.pdf) (new-irvine-mobile-networks-fronthaul-0914.pdf (http://www.ieee802.org/1/files/public/docs2014/new-irvine-mobile-networks-fronthaul-0914.pdf))
10 Jul 2014	CPRI "FrontHaul" requirements – discussion with TSN (http://www.ieee802.org/1/files/public/docs2014/new-ashwood-tsn-cpri-fronthaul-0714-v03.pdf) (new-ashwood-tsn-cpri-fronthaul-0714-v03.pdf (http://www.ieee802.org/1/files/public/docs2014/new-ashwood-tsn-cpri-fronthaul-0714-v03.pdf))

The above list includes only the latest version of updated documents and omits those superseded by subsequent discussion or inclusion in the current draft (see filenames beginning "cm-" in the 2015 (http://www.ieee802.org/1/files/public/docs2015/), 2016

(http://www.ieee802.org/1/files/public/docs2016/), 2017

(http://www.ieee802.org/1/files/public/docs2017/), and 2018

(http://www.ieee802.org/1/files/public/docs2018/) public directories for a complete list). The dates listed are the website file dates; they may differ from the creation dates in the documents.

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