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Standards Vice President

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Source 32NF Technology Committee

Status Outbound Liaison

Title PTP device monitoring Public Committee Draft

To: 3GPP

Dear 3GPP Liaison Officer,

As previously informed in our April 2021 liaison, SMPTE Drafting Group on PTP monitoring (TC-32NF-80 DG on ST 2059-2 PTP Device Monitoring) is developing an engineering document that will provide guidance on implementing PTP monitoring in professional media equipment.

The intention is to provide a data set that enables the monitoring of elements found in PTP systems with parameters that are specific to SMPTE clearly identified and separated from parameters that are common to generic PTP systems.

The group has designed a YANG Data Model based upon the IETF RFC 8575 that has been adapted to align with the SMPTE ST 2059-2 PTP profile. The group has included PTP monitoring elements from IEEE 1588:2019 that are not defined in 1588:2008 (and by extension are not available in RFC 8575) and has worked to ensure that the PTP container is closely aligned with the ongoing work of the IEEE 1588e group.

For the wider PTP Ecosystem the group has then extended this work to include additional containers covering further parameters that are outside the scope of the IEEE 1588 syntax but are essential to the monitoring of the overall health of the wider PTP ecosystem. These additional containers have been included at root level and describe parameter sets relating to the monitoring of GNSS, antenna systems, and grandmaster equipment which are common to many PTP systems and not specific to SMPTE. Parameters specific to SMPTE are defined in a separate container.

The collective feedback we received from numerous sources across the media and timing related industries has been taken onboard thereby contributing to define a new revision of the SMPTE RP 2059-15 Public Committee Draft 2 (PCD2) publicly accessible online at the following location: <https://github.com/SMPTE/rp2059-15>

Additionally, a webcast was recorded to provide further insight into the goals and objectives of the RP 2059-15 initiative. The recording has been posted and made publicly available at the following location: <https://www.smpte.org/webcast/rp-2059-15-unify-monitoring-smpte-st-2059-2-ntp-network-devices>

To finalize RP 2059-15, SMPTE is seeking further feedback on the proposed data model to ensure it will match industry expectations in terms of capabilities and usability across several use cases.

SMPTE would appreciate feedback on the proposed PTP monitoring YANG data model, from 3GPP and its membership, via the GitHub tools, conventional correspondence, and the online survey available at the following location: <https://www.surveymonkey.com/r/29GGT87>

Please send conventional correspondence to svp@smpte.org with cc: to liaisons-chair@smpte.org.

Many thanks & best regards,

A handwritten signature in black ink, reading "F. Schleich". The letters are cursive and connected.

Florian Schleich

SMPTE Standards Vice-President

cc: Thomas Bause Mason (SMPTE Director of Standards & Engineering), Sally Hattori (SMPTE Liaison Secretary)