

New ETSI Telemetry Standard Improves Automation for better End-User Quality of Experience

SOPHIA ANTIPOLIS, FRANCE, December 2, 2022 /EINPresswire.com/ -- As the scale and services offered through the Optical Access Networks increase, it is crucial to maintain network good operation and performance. To achieve this, the Optical Access Network monitoring can be improved when compared to existing traditional methods via automated real-time data collection. Telemetry enables this and transmits data from the optical line terminal (OLT) - i.e., the device at the



endpoint of a passive optical network - in real-time to provide information to the data collection platform.

With the new ETSI specification <u>ETSI GS F5G-011</u> defining Telemetry Framework and Requirements for Access Networks, service providers and operators benefit from the advantages of real-time monitoring with scale, speed and automation using telemetry. The data retrieved by telemetry, together with analytics and AI, will ultimately offer end users an optimized quality of experience of their fibre to the home (FTTH) network, unlocking the potential of the fifth generation of fixed networks.

Today, the Access Network deployment is based on a traditional data pulling methods, such as Simple Network Management Protocol (SNMP), syslog and Command-Line Interface (CLI) to pull data from the OLT to monitor Optical Access Network and troubleshoot any issues. The interface uses proprietary management information bases (MIBs) from different OLT equipment vendors, making automation a difficult task. Each request to pull data is therefore resource intensive and impacts the performance of the OLT, adding complexity because there is more than one pull request per OLT. The pulling method does not efficiently scale.

With the flexibility of telemetry, which uses the push method to continuously stream data from the OLT, the data of interest can be selected from the OLT and transmitted in a structured

format to a data collection platform for monitoring, AI-based analytics and visualization.

Telemetry introduces finer granular data points and more frequent data streaming in the Optical Access Network. It enables better performance monitoring and therefore better control over large Access Networks. Telemetry data can assist in the prediction of network problems and take preventative actions without impacting the performance of the OLT. The operators can gain better visibility and insight into the network. They can also enhance the network operational performance by using data analytics.

"Telemetry technology opens the door to big data and machine learning methods application in the Access Network and brings a clear benefit to end users," outlines Luca Pesando, Chair of the ETSI F5G group which developed this standard. "In the Group Specification, we also showcase examples of implementation of the telemetry system as we recommend it, already at the stage of Proof of Concept so that operators can leverage the potential of this new telemetry architecture," he adds.

The ETSI F5G Industry Specification Group is working on 10 other specifications and will soon release F5G PON (Passive Optical Networks) for industrial applications and an F5G security architecture. If you're interested, feel free to join us and contact isgsupport@etsi.org.

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