

CAT v24

NEW FUNCTIONALITY AND ENHANCEMENTS

(October 2019)



Contents

1 Software Release Overview	3
2 Features and Benefits.....	4
3 Base Product Enhancements.....	5
3.1 ITU-T G.8271.2 Pk-Pk Time Error limit	5
4 Appendix A: Software Advisory Notes.....	7

1 Software Release Overview

v24 (24.XX.XX) adds the following features to CAT, for customers with a valid CSS (Customer Support Service) contract:

Base product enhancements
ITU-T G.8271.2 Pk-Pk Time Error limit
Bug Fixes

 To check the current software version installed, select **Help > About** on the CAT GUI.

2 Features and Benefits

Product Enhancement	Benefit
ITU-T G.8271.2 Pk-Pk Time Error limit	Apply the appropriate network test metric/limit for Partial Timing Support Scenarios

3 Base Product Enhancements

3.1 ITU-T G.8271.2 Pk-Pk Time Error limit

ITU-T Recommendation G.8271.2 addresses the distribution of time and phase across a network, using the packet-based method with partial timing support to the protocol level from the network: i.e. not every node in a path is PTP-aware. As such, the test scenarios, metrics and limits are specific and different to those for fully PTP-aware networks.

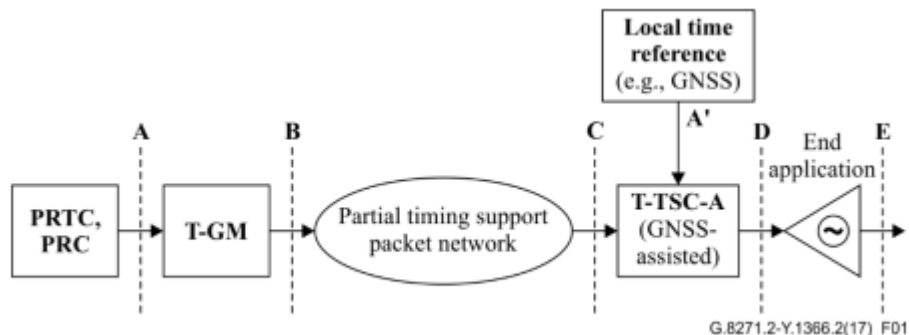


Figure 1 – Reference model for network limits for assisted partial timing support

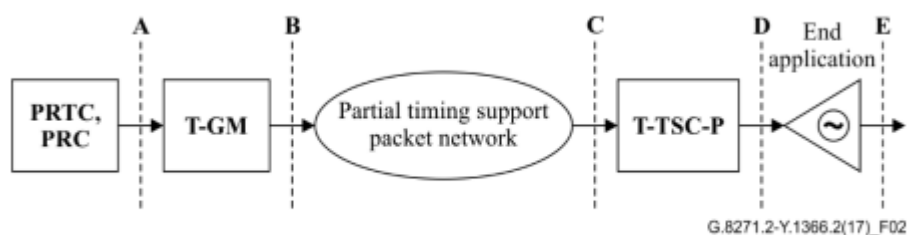


Figure 2 – Reference model for network limits for partial timing support

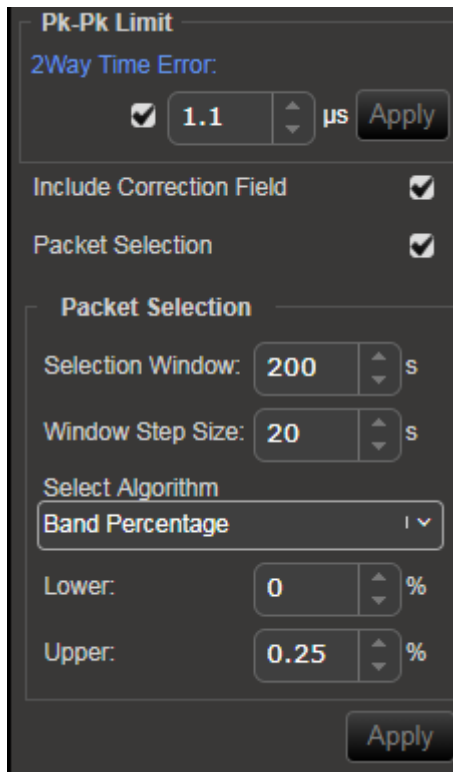
In this release, CAT has been enhanced to include the Pk-Pk Time Error metric with pass/fail capability, as required for testing parameters such as below:

7.3.1.1 Type I network limit

The network limit value and the metric processing parameters that apply for a type I network are as follows:

- Peak-to-peak pktSelected2wayTE < 100 ns
- Selection window = 200 s
- Selection percentage = 0.25%

To perform this measurement, select the 2wayTE metric and tab, and make the desired window and percentage settings in the **Packet Selection** section in the lower right of the window (Selection Window 200s, band percentage – upper 0.25%), and enable the **Pk-Pk limit** of **1.1us**. Ensure **Apply** has been pressed after all selections are made.



Pass/Fail will be displayed in the upper right of the CAT window.

4 Appendix A: Software Advisory Notes

- When using automation, it is recommended to have live captures stopped before trying to access/read data via script, as there can be intermittent errors.
- There are fixes in this release for several customer reported issues – for the full list of resolved customer issues, please see the CAT section on the Calnex Product FAQ page: <https://calnexsolutions.atlassian.net/wiki/spaces/KB/overview>

Calnex Solutions Ltd
Oracle Campus
Linlithgow
West Lothian
EH49 7LR
United Kingdom

tel: +44 (0) 1506 671 416
email: info@calnexsol.com

calnexsol.com

© Calnex Solutions Ltd, 2019.
This document is subject to change without notice.

Document v0.1 Oct-19

