

Software Release 3t: Drop 1 (X.50.03.xx)

NEW FUNCTIONALITY AND ENHANCEMENTS




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Software Release Overview

This Software Release (X.50.03) adds the following features to Paragon-t and the Calnex Analysis Tool (CAT):

Software Maintenance



Enhancements to existing options	Base product enhancements
Clock Wander Measurement:	Event Logging Function
New Rates – 64kHz, J1, 6212kHz	CAT: <ul style="list-style-type: none">• Latest Enhancements from 'Stand-Alone' Calnex Analysis Tool

 To check the current software version installed, select Help -> About Paragon-t Remote Client on the Paragon-t GUI.

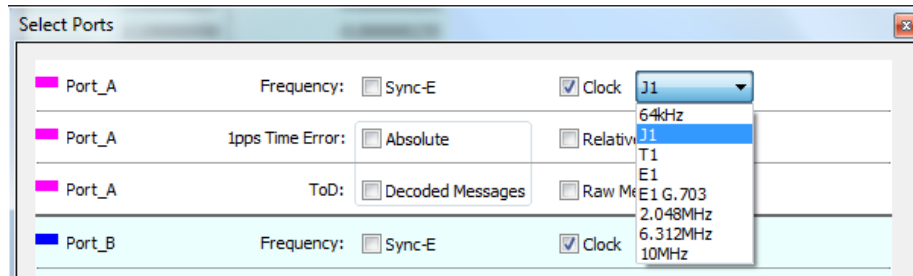
1 Features and Benefits

Paragon-t Feature	Benefit
Wander Measurement at additional clock rates	More flexible test with additional options for up to 4 simultaneous clock wander measurements, and potential for verification of multiple outputs from single or multiple DUTs
Event Logging	Faster troubleshooting and debugging of test issues
CAT Feature	Benefit
New Browser-based Operation	Improved responsiveness and processing time
Trace Overlay	Added capability for graphical analysis, allowing clear one-graph comparison for results from multiple individual or parallel tests

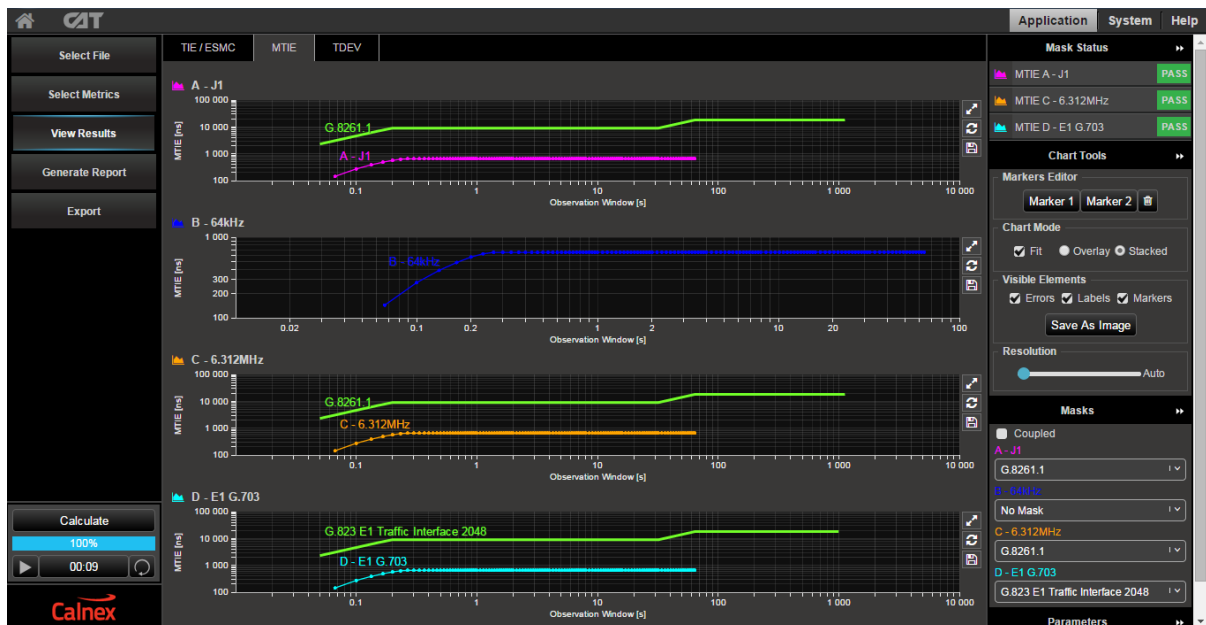
2 Enhancements to Existing Options¹

2.1 Clock Wander Measurements: Additional Rates – J1, 64kHz, 6312kHz

As part of the simultaneous clock wander measurement feature, with real-time and post-capture graphical analysis including pass/fail to metrics in CAT, there are now additional options for user selectable clock rates.



By selecting the desired rate from the drop-down menu for a chosen measurement port, you can now additionally choose to measure wander for J1 signals, 64kHz frequency (64k + 8k and 64 + 8 + 400Hz formats are also supported by this selection) and 6312kHz frequency.



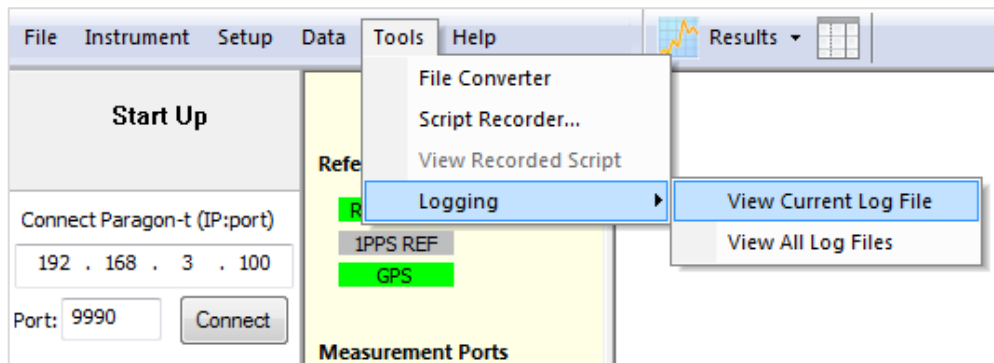
¹ Paragon-t updated features, option 001 required

3 Base Product Enhancements²

3.1 Event Logging

Paragon-t now includes an event logger which produces a readable file with date and time information (based on user PC time) of events during Paragon-t operation. This is to facilitate troubleshooting and, if needed, aid in factory debug.

Logging will run automatically when the Paragon-t GUI is launched and the resulting file (identified by launch date/time) will be available from the folder: *Calnex->Paragon-t->Tracing* or directly from the GUI: *Tools->Logging*



If the log file exceeds 100MB, a child file will be started, identifiable by a sequential filename suffix.

Events recorded: Unit connect/disconnects, capture start/stop.

Details of available data and format are displayed below:

Connection/Disconnection

System Time Time:04/02/2016 14:49:43 303 mSecs

04/02/2016 14:50:11 899 mSecs (192.168.254.223): Status: Initialising

04/02/2016 14:50:12 189 mSecs (192.168.254.223): Status: Connected

04/02/2016 14:50:14 432 mSecs Status: Connected

Capture Start/Capture Stop

04/02/2016 14:50:18 596 mSecs ** Capture Status Engine [A: Sync-E] State [start-e]**

04/02/2016 14:50:18 607 mSecs ** Capture Status Engine [B: 1pps Time Error] State [start-e]**

04/02/2016 14:50:22 745 mSecs ** Capture Status Engine [A: Sync-E] State [stop-e]**

04/02/2016 14:50:22 746 mSecs ** Capture Status Engine [B: 1pps Time Error] State [stop-e]**

² Paragon-t updated features

4 Enhancements to CAT

4.1 Latest enhancements from CAT version 18.4

For more information on the large range of feature additions and useability enhancements in the latest version of the Calnex Analysis Tool, please view the Release Notes at:

<https://calnexsol.com/en/resources-en/product-software>

Please note that the 'Stand Alone' CAT release is version 18.3, therefore the 18.3 release notes will cover the features available in 18.4 as well.

5 Software Advisory Notes

- A major fix has been implemented in this release to resolve an issue that caused potential loss of data during long-term testing (multiple weeks/months) using Paragon-t.
- The measurement accuracy for 10MHz signals has been improved in this release.
- An issue in previous releases meant that user configuration for Time of Day capture was not recorded by the 'Save Settings' function. This is now rectified.
- Status indication SoftLED for the 1pps reference signal has now been decoupled from '1pps measurement' being selected, so that signal lock can be checked independently.
- When using the Script Recorder feature, it should be noted that file export from the main GUI will not be recorded to the script. The functional workaround is to ensure that results are opened in CAT, then exported from within the tool.

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