GPS Cable Delay Measurement Procedure VIAVI OneAdvisor 800 (ONA-800)



OneAdvisor 800

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Scope and Purpose

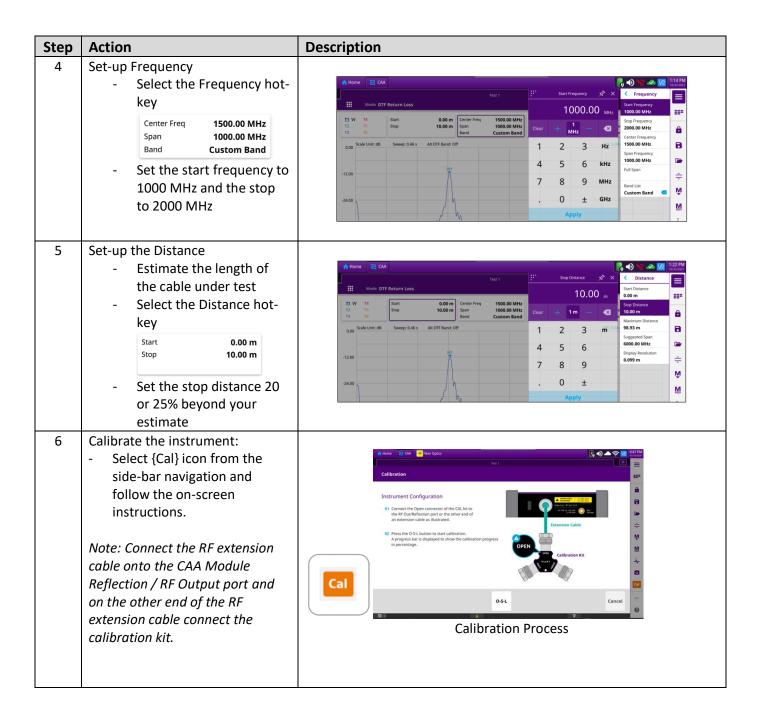
This document describes how to configure the OneAdvisor for a Distance to Fault (DTF) measurement of a GNSS (GPS) Cable and antenna system. The purpose is not to locate any fault, but rather to understand the time delay of the RF signal through this cabling system so that this delay may be entered into the Grand Master or Edge Grand Master clock.

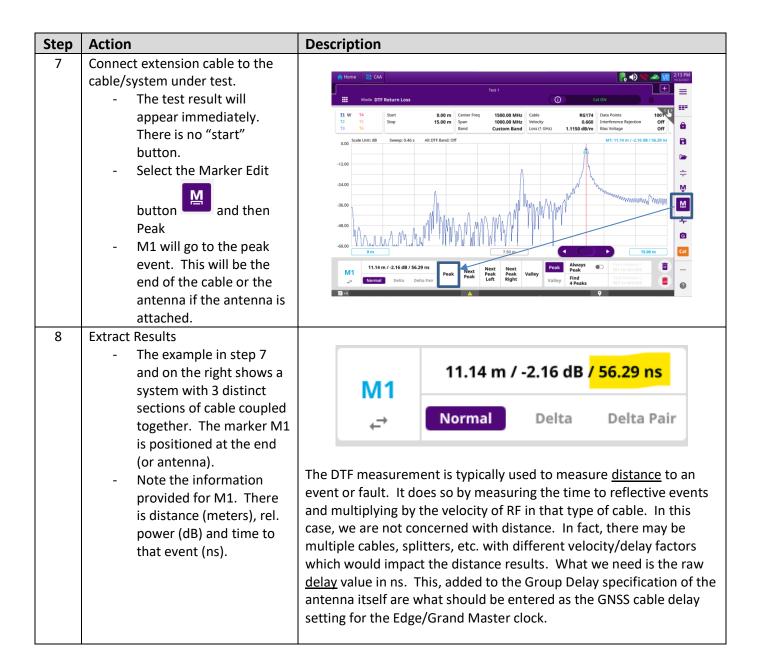
The required products and parts to complete this procedure are as follows:

Description	Diagram
OneAdvisor with the following functions: - ONA-800 mainframe equipped with the following module: - CA006MA: Cable and antenna analysis 6GHz	ONA Front View. CAA Module
OSL calibration Kit (Manual or EZcal) - JD78050509: Manual OSL calibration kit Type-N(m)	Open, Short, Load
RF Cables - G700050531: RF Cable DC to 8 GHz Type-N M to Type-N (F) 1.5 m	RF Cable
RF Adapters - Depending on the cable termination adapters or gender changes may be required	

DTF (Cable Delay) Measurement Setup

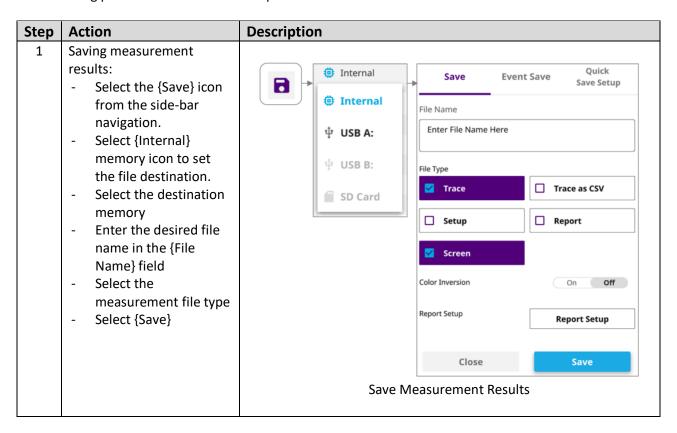
Step	Action	Description
1	Power ON the OneAdvisor	Press and hold the ON/OFF button for 3 seconds to power on the OneAdvisor
2	The ONA-800 supports CAA and fiber testing Modules Connectivity: Connect the RF extension cable into the CAA Module Reflection / RF Output port.	CAA Module ONA Front View. ONA Back View
3	Cable and Antenna Analysis mode: - Select {Home}, {Tests}, {CAA}, {CAA} - To select a measurement type, select the multi-grid icon	Fiber 1 (ONA-PMVFL) Tests Fiber 2 (4126 MA2) Fiber 2 (4126 MA2) Fiber 2 (4126 MA2) Fiber 3 (4126 MA2) Fiber 3 (4126 MA2) Fiber 4 (4126 MA2) Fiber 5 (4126 MA2) Fiber 6 (4126 MA2) Fiber 7 (4126 MA2) Fiber 8 (4126 MA2) Fiber 8 (4126 MA2) Fiber 9 (4126 MA2) Fiber 9 (4126 MA2) Fiber 1 (ONA-PMVFL) Fiber 1 (ONA-PMVFL) Fiber 1 (ONA-PMVFL) Fiber 1 (ONA-PMVFL) Fiber 2 (4126 MA2) Fiber 2 (4126 MA2) Fiber 2 (4126 MA2) Fiber 3 (4126 MA2) Fiber 3 (4126 MA2) Fiber 4 (4126 MA2) Fiber 5 (4126 MA2) Fiber 6 (4126 MA2) Fiber 7 (4126 MA2) Fiber 8 (4126 MA2) Fiber 8 (4126 MA2) Fiber 9 (4126 MA2) Fiber 9 (4126 MA2) Fiber 9 (4126 MA2) Fiber 1 (ONA-PMVFL) Fiber 1 (ONA-PMVFL) Fiber 2 (4126 MA2) Fiber 2 (4126 MA2) Fiber 3 (4126 MA2) Fiber 3 (4126 MA2) Fiber 4 (4126 MA2) Fiber 5 (4126 MA2) Fiber 6 (4126 MA2) Fiber 7 (4126 MA2) Fiber 8 (4126 MA2) Fiber 9 (4126 MA2) Fiber 1 (ONA-PMVFL) Fiber 1 (ONA-PMVFL) Fiber 2 (4126 MA2) Fiber 1 (ONA-PMVFL) Fiber 2 (4126 MA2) Fiber 3 (4126 MA2) Fiber 6 (4126 MA2) Fiber 7 (4126 MA2) Fiber 8 (4126 MA2) Fiber 9 (





Save Measurement Results

The following procedure describes the steps to save measurement results with OneAdvisor



Resources (SW, FW, Tech Support, Job Manager, StrataSync)

JD VIEWER SOFTWARE: Off-line analysis and reporting for ONA-800 traces can be performed with JD Viewer. That software is available for free at the following location:

http://celladvisor.updatemyunit.net/

FIRMWARE: Regularly new firmware updates for the ONA-800 are released and it is recommended to keep the instrument in the latest firmware to provide all the enhancements and bug fixes.

- For firmware updates go to: http://ona-800.updatemyunit.net/
- For additional information of cell site test go to: <u>http://www.viavisolutions.com/en/products/network-test-and-certification/cell-site-test</u>

TECHNICAL SUPPORT: Technical support is available by contacting VIAVI in one of two ways:

- Phone: 1-844-GO-VIAVI (1-844-468-4284) options 3-2-3
- Email: <u>diagnostics.tac@viavisolutions.com</u>

JOB MANAGER: Job Manager is a web-based test sequence builder that allows an organization to standardize any test process and push those standards across all their instruments:

- https://jobmanager.stratasync.viavisolutions.com/
- Overview Video: https://www.viavisolutions.com/en-us/how-videos-oneadvisor-800

STRATASYNC: A hosted service from VIAVI that can be used to track test set inventory, push firmware, share licenses, distribute test configurations/jobs, collect and distribute test results. If you own a supported VIAVI test set, you are eligible to utilize StrataSync. Contact your VIAVI representative.

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