



Cable and Antenna Testing

OneAdvisor 800

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1. Scope

This MOP outlines the process of creating a “Job” using the Viavi Solutions Job Manager web page for the ONA-800. Job Manager is used when a series of tests and reports are needed to complete a “job” at a site. Included in this document is a step by step guide to create a Job and run the job on an ONA-800. Included in this MOP are the following high-level topics.

- Creating a job
- Loading a job into an instrument via USB
- Loading a Job on the ONA-800
- Running a test via Job Manager
- Creating a report in Job Manager

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

Description	Diagram
OneAdvisor with the following functions: <ul style="list-style-type: none"> - ONA-800 mainframe equipped with the following module: <ul style="list-style-type: none"> o CA006MA: Cable and antenna analysis 6GHz o E41xx Series OTDR Module 	 <p style="text-align: center;">ONA Front View. ONA Side View</p>
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2. OneAdvisor Overview

The OneAdvisor is a portable instrument for Cell Site installation and maintenance, the main test functions of OneAdvisor for cell site installation include:




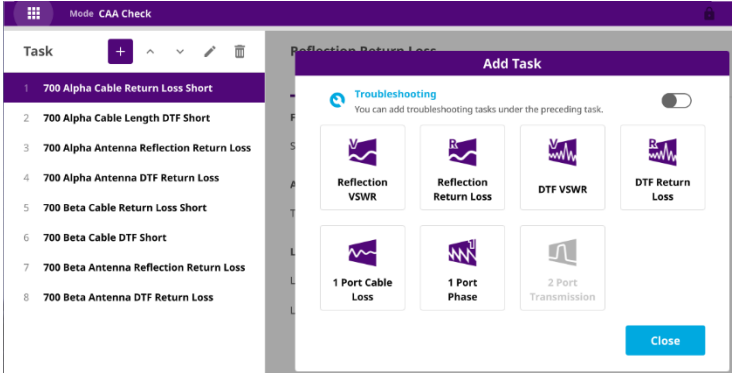
- Cable and antenna analysis up to 6GHz
- Fiber Inspection verification
- Fiber validation (OTDR)

2.1 CAA Check initial Setup

The following procedure describes the steps to create a CAA Check profile with OneAdvisor.

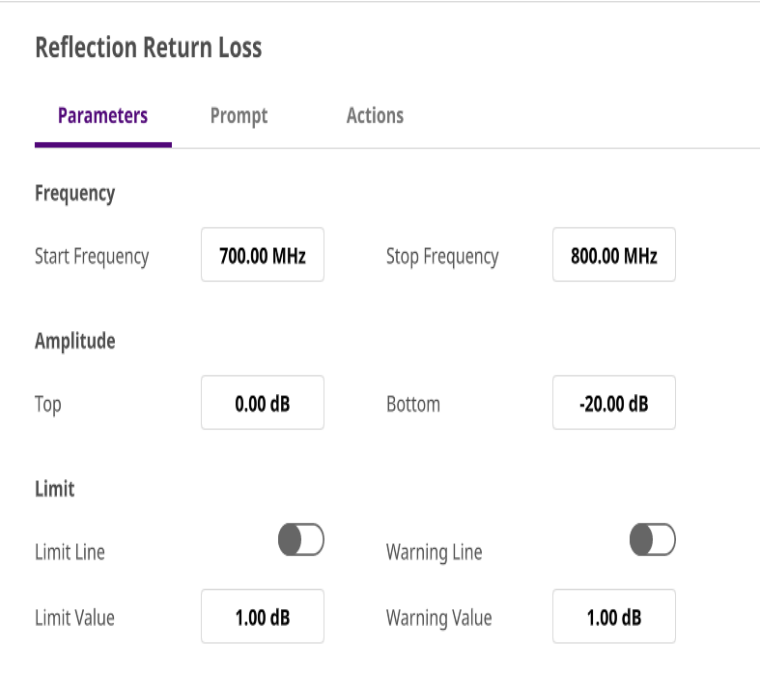
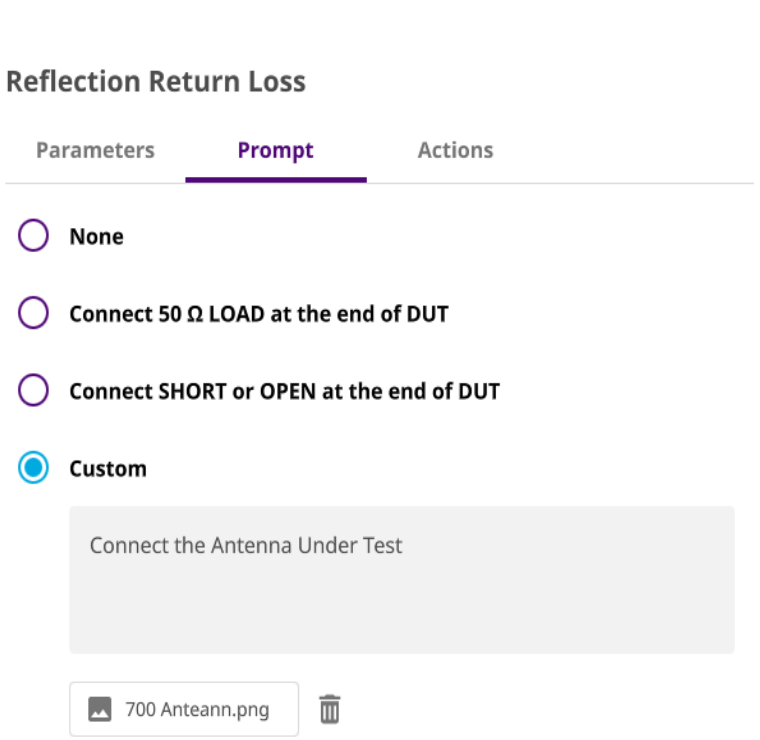
2.1.1 Initial Setup

The following procedure describes the initial setup of CAA Check, including creating a test sequence, adding pass/fail results, and saving the profile.

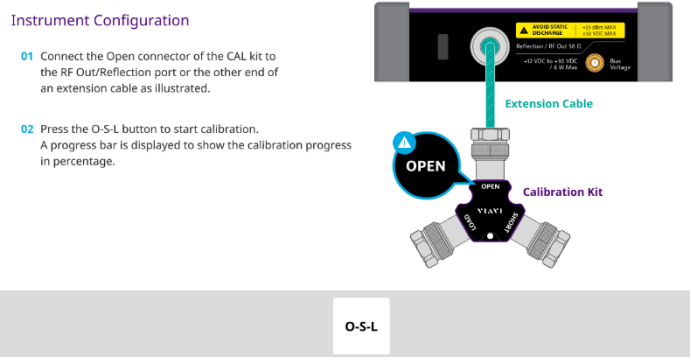
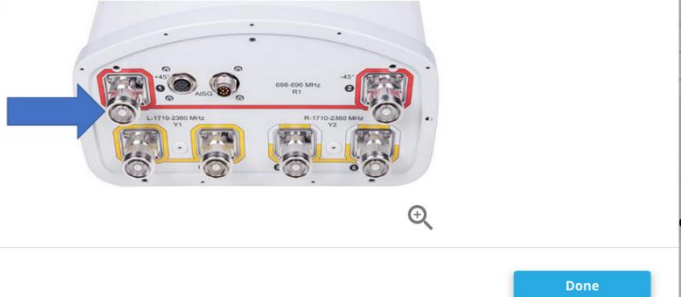
Step	Action	Description
1	Power ON OneAdvisor	Press and hold the ON/OFF button for 3 seconds to power on the OneAdvisor 
2	Connectivity: connect the RF cable (cable under test or extension cable) into the CAA Module Reflection / RF Output port.	 <p style="text-align: center;"> ONA Front View. ONA Back View </p>
3	CAA Check mode: - Select {Home}, {Tests}, {CAA}, {CAA Check} - To create a profile, select the “Get Started” icon <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center; margin: 5px 0;">Get Started</div> <ul style="list-style-type: none"> ○ Select a task to add it to the task list. ○ Add as many tasks as needed. ○ Tasks can be reordered and renamed as needed ○ Select “Close” when completed 	 <p style="text-align: center;">Cable and Antenna Analyzer Measurement Mode</p>  <p style="text-align: center;">Add Tasks Screen</p>


2.1.2 CAA Check

The following procedure describes the steps to setup Parameters on CAA Check with OneAdvisor.

Step	Action	Description
1	<ul style="list-style-type: none"> - Select the First task from the list and set the parameters as needed. - Set the Start and stop Frequencies - Optional – set the screen scale - Optional – Set a pass fail limit and warning limit 	 <p style="text-align: center;">Reflection Test Measurement Types</p>
2	<p>User Prompt</p> <ul style="list-style-type: none"> - Select the “Prompt” tab <p>Prompt</p> <ul style="list-style-type: none"> - Select a user prompt from the list such as “Connect a SHORT or OPEN” - Optional – Select “Custom” to create a custom prompt - Optional – Add a picture to the customer prompt as needed 	 <p style="text-align: center;">Setting User Prompt</p>

Step	Action	Description																																																
3	<p>Test Actions</p> <ul style="list-style-type: none"> - Select the “Actions” tab - Actions - Set the Calibration to “Current if valid” - Set the Markers - Set the Scale as needed - Select a file name to save - Select the type of file to save <p>Repeat the steps for all tests needed</p>	<p style="text-align: center;">Actions Tab</p>																																																
4	<p>Saving Results</p> <ul style="list-style-type: none"> - Select “Save Profile” - Save Profile - Name the file and press the save button <p style="text-align: center;">Save</p>	<p style="text-align: center;">Save</p>																																																
5	<p>Running the Tests</p> <ul style="list-style-type: none"> - Select the “Run Test” tab - Run Test - Select the Start Button to start the tests <p style="text-align: center;">Start</p>	<table border="1"> <thead> <tr> <th>Task</th> <th>Settings</th> <th>Status</th> <th>Retest</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>1 700 Alpha Cable Return Loss Short</td> <td>🔍</td> <td>🕒 Ready</td> <td></td> <td></td> </tr> <tr> <td>2 700 Alpha Cable Length DTF Short</td> <td>🔍</td> <td>🕒 Ready</td> <td></td> <td></td> </tr> <tr> <td>3 700 Alpha Antenna Reflection Re...</td> <td>🔍</td> <td>🕒 Ready</td> <td></td> <td></td> </tr> <tr> <td>4 700 Alpha Antenna DTF Return L...</td> <td>🔍</td> <td>🕒 Ready</td> <td></td> <td></td> </tr> <tr> <td>5 700 Beta Cable Return Loss Short</td> <td>🔍</td> <td>🕒 Ready</td> <td></td> <td></td> </tr> <tr> <td>6 700 Beta Cable DTF Short</td> <td>🔍</td> <td>🕒 Ready</td> <td></td> <td></td> </tr> <tr> <td>7 700 Beta Antenna Reflection Ret...</td> <td>🔍</td> <td>🕒 Ready</td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">0 / 8</p> <p style="text-align: right;">Start</p> <p>Summary</p> <table> <tr> <td>Pass</td> <td>0</td> </tr> <tr> <td>Fail</td> <td>0</td> </tr> <tr> <td>Complete</td> <td>0</td> </tr> <tr> <td>🕒</td> <td>00:00:00</td> </tr> </table>	Task	Settings	Status	Retest	Result	1 700 Alpha Cable Return Loss Short	🔍	🕒 Ready			2 700 Alpha Cable Length DTF Short	🔍	🕒 Ready			3 700 Alpha Antenna Reflection Re...	🔍	🕒 Ready			4 700 Alpha Antenna DTF Return L...	🔍	🕒 Ready			5 700 Beta Cable Return Loss Short	🔍	🕒 Ready			6 700 Beta Cable DTF Short	🔍	🕒 Ready			7 700 Beta Antenna Reflection Ret...	🔍	🕒 Ready			Pass	0	Fail	0	Complete	0	🕒	00:00:00
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Step	Action	Description
	<ul style="list-style-type: none"> - After starting the test, the ONA will need to calibrate – Follow the on screen prompts to calibrate the unit. 	<div style="background-color: #4a4a8a; color: white; padding: 5px; text-align: center;">Calibration</div> <p>Instrument Configuration</p> <ol style="list-style-type: none"> 01 Connect the Open connector of the CAL kit to the RF Out/Reflection port or the other end of an extension cable as illustrated. 02 Press the O-S-L button to start calibration. A progress bar is displayed to show the calibration progress in percentage. 
	<p>After calibration is complete, follow the prompts on the screen as needed.</p> <p>Select “Done” to start the test</p>	<div style="background-color: #4a4a8a; color: white; padding: 5px; text-align: center;">700 Alpha Cable Return Loss Short</div> <p style="text-align: right;">Connect the Antenna Under Test</p> 

Step	Action	Description																												
1	<p>Reports</p> <ul style="list-style-type: none"> - Select the Report tab <div style="text-align: center; font-size: 24px; color: #0070c0; font-weight: bold;">Report</div> <ul style="list-style-type: none"> - Enter the information needed - Select the File Folder  <ul style="list-style-type: none"> - Create a file name - Select “Apply” <div style="text-align: center; background-color: #0070c0; color: white; padding: 5px; border-radius: 5px; display: inline-block;">Apply</div> <ul style="list-style-type: none"> - Press the Create Report button <div style="text-align: center; background-color: #0070c0; color: white; padding: 10px; border-radius: 10px; display: inline-block; font-weight: bold; font-size: 18px;">Create Report</div>	<p>File Name</p> <div style="border: 1px solid #ccc; padding: 5px; width: 200px; margin-bottom: 10px;">SAMPLE REPORT</div> <p style="text-align: center; font-weight: bold;">Report Name</p> <hr/> <p>Report</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Customer</td> <td style="width: 30%;"><input type="text" value="Viavi Solutions"/></td> <td style="width: 10%;">Notes</td> <td style="width: 30%;"><input type="text"/></td> </tr> <tr> <td>Technician ID</td> <td><input type="text" value="55231"/></td> <td>File Type</td> <td>PDF</td> </tr> <tr> <td>Work Order ID</td> <td><input type="text"/></td> <td>File Name</td> <td><input type="text"/></td> </tr> <tr> <td>Test Location</td> <td><input type="text" value="WA"/></td> <td>Internal</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Cell Site Info.</td> <td><input type="text" value="123"/></td> <td><input checked="" type="checkbox"/> View report after creation</td> <td></td> </tr> <tr> <td>Radio</td> <td><input type="text" value="Alpha"/></td> <td></td> <td></td> </tr> <tr> <td>Band</td> <td><input type="text" value="700"/></td> <td></td> <td></td> </tr> </table> <div style="text-align: right; margin-top: 10px;"> <input type="button" value="Preview"/> <input style="margin-left: 20px;" type="button" value="Create Report"/> </div>	Customer	<input type="text" value="Viavi Solutions"/>	Notes	<input type="text"/>	Technician ID	<input type="text" value="55231"/>	File Type	PDF	Work Order ID	<input type="text"/>	File Name	<input type="text"/>	Test Location	<input type="text" value="WA"/>	Internal	<input type="checkbox"/>	Cell Site Info.	<input type="text" value="123"/>	<input checked="" type="checkbox"/> View report after creation		Radio	<input type="text" value="Alpha"/>			Band	<input type="text" value="700"/>		
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3. Technical Support

Technical support is provided by:

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

Regularly new firmware updates for the CellAdvisor 5G 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://celladvisor.updatemyunit.net/>
- For additional information of cell site test go to:
<http://www.viavisolutions.com/en/products/network-test-and-certification/cell-site-test>