ROGUE® | **aeros®**

Test Workflow and Data Management Solution

aeros

Cloud-based Workflow Manager
User's Guide

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aeRos® | ROGUE® Solution

Products Overview

AFL's ROGUE™ | aeRos® Test Workflow and Data Management Solution is a suite of products built completely around your company's specific testing requirements.

aeRos — is an open, cloud-based, workflow management platform that facilitates two-way communication and data exchange from engineering to project management to technicians in the field. aeRos users have access to test results and can address challenges in real-time. Project managers can send jobs directly to technicians, defining exactly which tests and configurations are needed. This reduces both set up time and mistakes in the field, creating real OPEX savings. Throughout the job, managers can monitor a technician's progress and help solve problems as they arise, thus avoiding expensive retesting and unnecessary truck rolls.

ROGUE — is the modular hardware platform that works seamlessly with aeRos. Like aeRos, it is an open system built around you, for both CAPEX and OPEX savings. By unbundling software and hardware, the ROGUE platform allows you to invest in the application-specific tests you really need. Because ROGUE works with iOS or Android, you can leverage your investment in your existing smart devices. Your technicians will use equipment and capabilities they are familiar with, further increasing their overall efficiency and your OPEX savings.

Taken together, all these combined aeRos/ROGUE advances have one singular goal: to help you build a better network.

ROGUE Modules — Each ROGUE test module uses state-of-the-art technology to produce the most accurate results in the shortest amount of time. OLTS Modules contain Bi-directional test ports as well as an optical power meter port and Visual Fault locator. All Multimode ports are Encircled Flux compliant as required by ANSI/TIA and ISO/IEC.

Smart Device Apps — By pairing ROGUE modules with smart device apps, AFL's patent pending architecture enables users to control their test hardware directly from Android or iOS smart device. Test configurations and instructions are pushed from AFL's aeRos cloud solution to the smart device App to simplify the process for technicians.

Apps available via Google play store or App Store.

Made for iPad mini 3

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aeRos® Workflow Management Options

aeRos, AFL's new cloud solution, combines AFL's ROGUE open hardware platform with a cloud-based workflow management system that enables seamless and efficient communications and data management. aeRos simplifies coordination between the main office and field technicians by providing remote project setup, automatic data collection and reporting, as well as the real-time job monitoring that is independent of technology or location.

AFL's aeRos cloud solution is available in two options:

- **aeRos BASIC - Data Management.**
  aeRos BASIC allows users to save their test data in the aeRos Cloud and then retrieve it from anywhere at any time with a standard Internet browser such as Chrome or Safari.

- **aeRos PRO - Workflow Management.**
  aeRos PRO provides users the ability to manage their entire testing workflow through the creation of Projects, Test Setups, Fibergroups and IDs, and industry as well as User defined Test Limits. Technicians can be assigned to projects and work assigned to their smart devices.

Features	aeRos BASIC	aeRos PRO
Data Transfer from ROGUE Units	◆	◆
Browser Based	◆	◆
Support/Manage SW Updates	◆	◆
View Archived Projects/Data/Results	◆	◆
Basic Reporting	◆	◆
OTDR, Certification, OLTS, Inspection	◆	◆
Advanced/Custom Reporting		◆
Remote Project Setup/Management		◆
Real-time Project Status/Monitor		◆
Active User Management		◆
Data Storage	Limited	Unlimited

aeRos Software Licensing

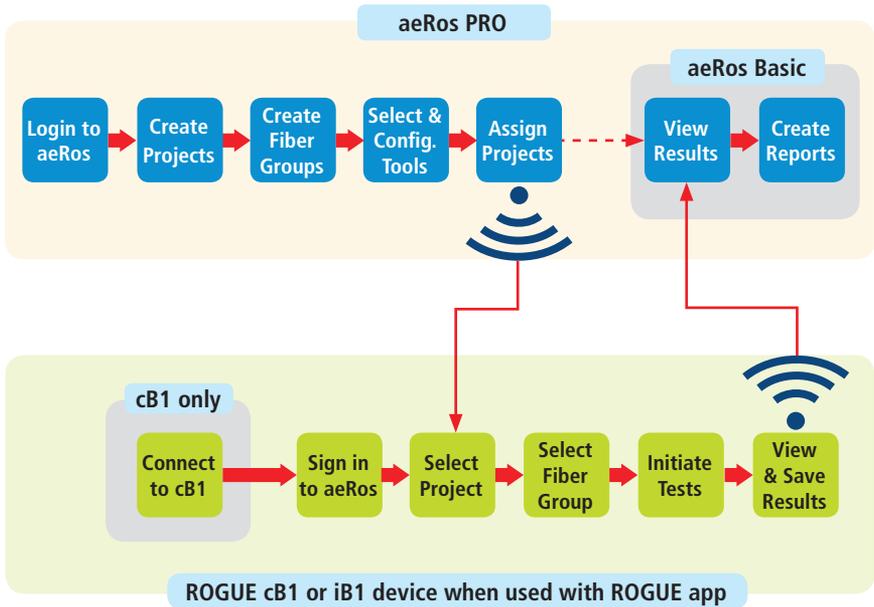| Description	AFL NO.
aeRos Basic (1) account	aeRos
aeRos PRO (1) account, 1 year subscription	aeRos-PRO-YRL
aeRos PRO (1) account, lifetime subscription	aeRos-PRO-LFT

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aeRos simplifies coordination between the main office and field technicians by providing remote project setup, automatic data collection and reporting, as well as the real-time job monitoring that is independent of technology or location.

- **Login to aeRos.** See section "Logging into an aeRos account" on page 9.

- **Setup your Organization.** See section "Organization Setup Overview" on page 46.

- **Create Projects.** See section "Creating a Project" on page 12. With aeRos PRO, projects can be defined remotely with a variety of test activities, configurations, custom or industry pass/ fail limits for single fiber or MPO multi-fiber links. Projects can be assigned to a single user or to multiple technicians.

- **Create Fiber Groups.** Once a Project is created, add Fiber Groups to it to test. See section "Creating a Fibergroup" on page 18.

- **Configure Tools: Test Setups and Test Limits.** See sections:

  – "Organization Menu Overview" on page 35

  – "Test Setups and Test Limits Overview" on page 37

- **Apply Tools to Projects.** See section "Applying Test Setups" on page 19

- **Assign Projects.** See section "Assigning a Project" on page 23

- **Work on Project Assignment using your ROGUE equipment.** Once created, projects are pushed from aeRos cloud solution to the smart device app to simplify the process for technicians.

  – Technicians receive a notification on their smart device and can perform required tests.

  – Changes to a project can be made remotely while in progress, and updates to all users can be assigned simultaneously through their smart devices.

  – When the testing is complete, the test results automatically and seamlessly synchronize with the aeRos cloud.

- **View Test Results.** See section "Results Overview" on page 25

- **Create Reports.** See section "Reports Overview" on page 32. Reports creation is simplified with aeRos customizable, easy to use reporting templates that include "what-if" analysis against different industry standards. If there is a need to re-test a project against a new or different industry standard, simply enter a new pass/fail limit and aeRos provides the new status.

Testing with aeRos® | ROGUE® | Apps

aeRos Guided Operation

ROGUE apps (TURBO and LinkMap OTDR) accept projects configured in the aeRos Workflow Management Solution or allow users to locally create projects and initiate tests.

aeRos PRO

aeRos Basic

Login to aeRos → Create Projects → Create Fiber Groups → Select & Config. Tools → Assign Projects ⇢ View Results → Create Reports

cB1 only

Connect to cB1 → Sign in to aeRos → Select Project → Select Fiber Group → Initiate Tests → View & Save Results

ROGUE cB1 or iB1 device when used with ROGUE app

ROGUE cB1 Base equipped with OLTS/CERT Module paired with smart devise with TURBO app.

ROGUE iB1 Base equipped with OTDR Module and LinkMap OTDR app.

Example I shows aeRos guided testing and reporting

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ROGUE App Guided Operation

Illustration below shows app guided workflow steps when projects created within ROGUE app.
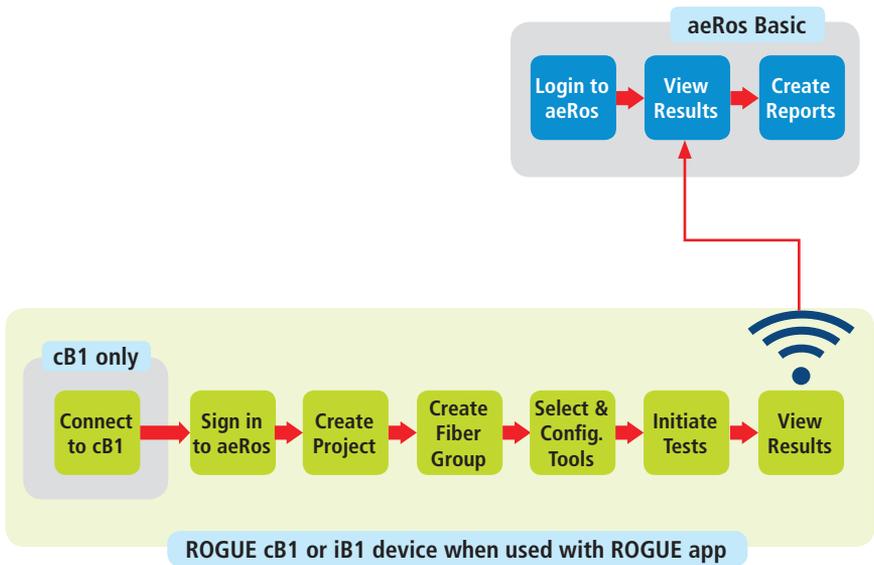
aeRos Basic

Login to aeRos → View Results → Create Reports

cB1 only

Connect to cB1 → Sign in to aeRos → Create Project → Create Fiber Group → Select & Config. Tools → Initiate Tests → View Results

ROGUE cB1 or iB1 device when used with ROGUE app

ROGUE cB1 Base equipped with OLTS/CERT Module paired with smart devise with TURBO app.

ROGUE iB1 Base equipped with OTDR Module and LinkMap OTDR app.

Example II: ROGUE App guided testing and reporting

Getting Started

Logging into an aeRos account

To sign in:

1 Type aeros.aflglobal.com into your standard browser such as Chrome or Safari.

2 Type your user name.

3 Enter password.

4 Click Sign In.

5 Request a new aeRos account if not already registered.

Switching between Multiple Organizations

To change to another organization (if applicable):

1 Click on your account/email in the top right to display a drop-down menu **A**.

2 From the displayed menu, select the Change Organization option.

3 When a list of your Organizations **B** is displayed, click on the desired Organization radio button to select.

4 Click 'Change Organization'.
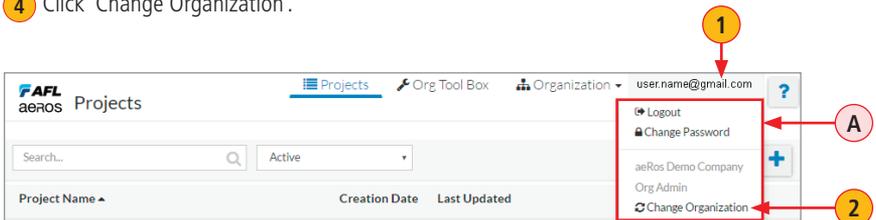
Projects Dashboard Overview

Once logged in to aeRos, the first screen you see is the Projects Dashboard. From this screen you can see all the Projects for your Organization and easily access various setup screens, menus, and useful tools.

Setup Screens, Menus and Tools

Main Menu bar — It contains icons/tabs for a quick access to various setup screens or menus. Click on an icon/tab to display the associated setup screen or menu. See table below for details.
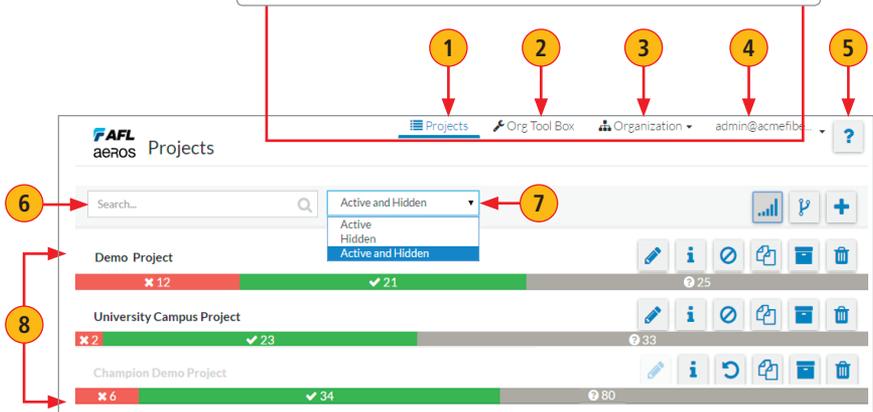
Note: some features/actions on the Projects Dashboard may only appear with special permission.

Ref	Screen/Feature	Description
1	Projects Dashboard	When in any other screen, click on this icon/tab to display the Projects Dashboard, which displays all projects for your organization.
2	Organization Tool Box	Organization Tool Box: • Allows you to manage Test Setups for your organization. • Allows you to manage Test Limits. It contains standard or user-defined limits that you can use as part of your setups.
3	Organization Menu	This menu provides access to several screens that allow you to manage Users, Contacts, and License information that you have for your Organization.
4	Logout Menu	Allows you to logout or change the password.
5	Help Button	Click to see help for the currently displayed screen.
6	Search Box	The 'Search' feature allows you to search for projects by entering keywords into the search box field.
7	Search Filter	This feature allows you to filter searches and display filtered data by 'Active', 'Hidden' or see both 'Active and Hidden' projects.
8	List of Projects	A list of projects is displayed according to the filter options set in 7.

Setup Screens, Menus and Tools (continued)

Ref	Screen/Feature	Description
9	Project Row	By clicking on a project row you can display an individual project and associated with this project screens (Fibergroups, Results, Reports, Project team). **Note:** You can only display an 'Active' project. As shown in the example screen above: • (A) is an 'Active' project • (B) is a 'Hidden' (disabled) project - indicated by grayed-out name of a project. You may enable a 'Hidden' project by clicking the Reload button ↺
10	Project Progress Bar	These bars can be displayed by clicking on the Details button 📊. When displayed, each progress bar may contain up to three color-coded sections to indicate the status of a Project by a number of fibers failed (red/x) (D), passed (green/✔) (C) or incomplete (gray/?) (E). You may click on each section to view filtered results.
11	Tools Panel	Buttons located on tools panel provide shortcuts for specific actions. For details, see the following section.

Projects Dashboard Overview

Note: some features/actions on the Projects Dashboard may only appear with special permission.

Button	Function
.ıll	Display progress bar for all projects. Sections of the progress bar show status (pass/fail incomplete) and may be clicked to view filtered results.
⅄	Merge two projects.
✚	Create a new project.
✏	Edit a project (name or comment). Click the project row to configure and access other functions.
i	View additional project info (comments, date modified, etc).
⊘	Disable (hide) an existing project.
↺	Reload a disabled project.
⧉	Create a copy of an existing project. This will take along all attributes of the project including the tests and test setups.
▤	Archive a project (coming soon: reporting on archived projects).
🗑	Delete a project (cannot be undone). Useful to Basic accounts to reduce usage.
?	Click to see help for the currently displayed screen.

Creating a Project

You may create Projects either by clicking ✚ to create a new Project or clicking ⧉ to create a copy of an existing project

Projects Dashboard screen

Projects Dashboard Overview

- While in the Project Dashboard, click on the Create Project icon ➕ Ⓐ

- In the displayed 'New Project' screen:
  – Add project name Ⓑ
  – Add comments as needed Ⓒ
  – Click Create Project button Ⓓ

Projects Dashboard screen
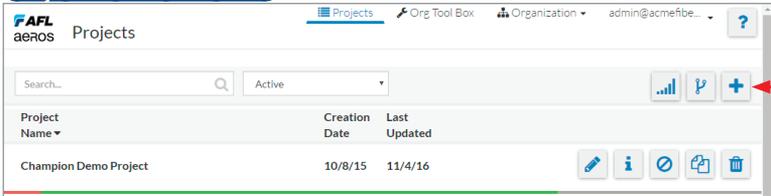
Create Project dialog box
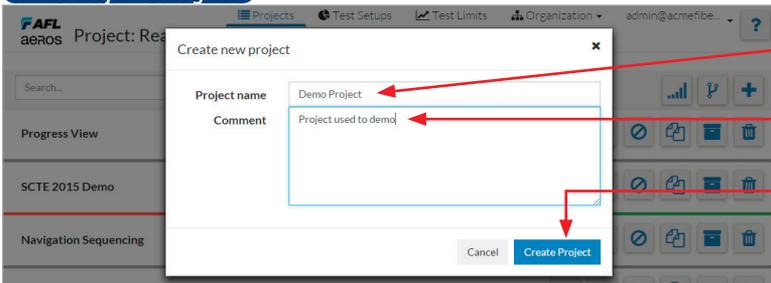
- You'll see the newly created project appears on the Project Dashboard screen Ⓔ

Projects Dashboard screen
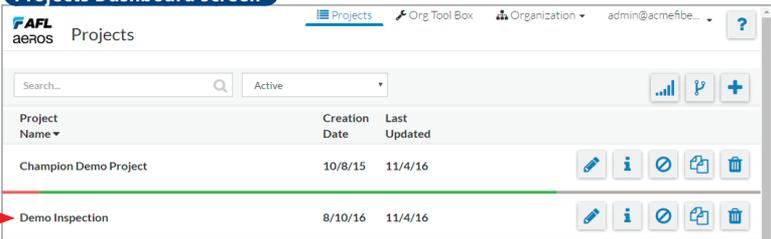
Note: Once a Project is created, you may now start adding Fibergroups to it to test. Clicking on the Project row/name will display the Fibergroups screen, which allows you to define fibergroups for a Project.
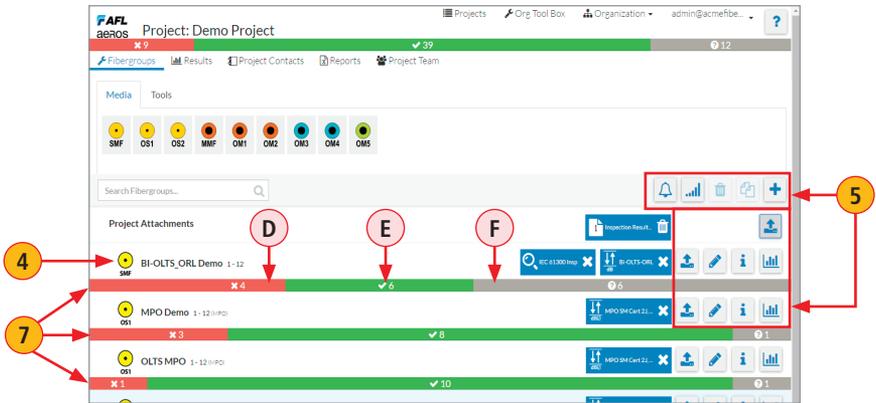
Project Details Screen Overview

Project Details Pages/Screens

The Project Details screen is accessed from the Dashboard by simply clicking on the desired Project row. This screen provides access to several Project Details Pages/Screens:

- Fibergroups, see "Fibergroups" on page 15
- Results, see "Results Overview" on page 24
- Project Contacts, see "Project Contacts" on page 21
- Reports, see "Reports Overview" on page 32
- Project Team, see "Project Team" on page 22

By default, Project Details screen opens with the Fibergroups page displayed. To display any other page, click on the desired page tab found in the menu (A).

Fibergroups page

Reports page

Results page

Project Contacts page

Project Team page

Fibergroups

Setup Screens, Menus and Tools

The Project Details - Fibergroups screen is accessed from the Dashboard by simply clicking on the desired Project row. This screen contains several setup tools and menus that allow you to manage Fibergroups and Test Tools within the project, with live syncing to field units.

Ref	Screen/Feature	Description
1	Project Progress Bar	This bar may contain up to three color-coded sections to indicate the status of a Project by a number of fibers failed (red/x) (A), passed (green/✓) (B) or incomplete (gray/?) (C). You may click on each section to view filtered results.
2	Project Menu Bar	Contains shortcuts to various project screens: Fibergroups, Results, Projects Contacts, Reports, and Project team.
3	Media Tab/Tool Box	Media Tool Box is displayed by selecting the Media Tab. Media Tool Box allows you to select different types of media to test.
4	Tools Tab	Test Setups Tool Box is displayed by selecting the Tool Tab. It contains Test Setups and allows performing several functions: • Apply Test Setups to the selected Fibergroups • Create Test Setups for the Organization Tool Box • **OTDR test only!** Create Test Setups for the Project Tool Box

Ref	Screen/Feature	Description
5	Tools Panel	Provide shortcuts for specific actions. For details, see the following section.
6	Fibergroup Row	Displays setup data (fibergroup name, media type, number of fibers). Fibergroups may be multi-selected by clicking on each row. Once selected, Test Setups may be applied to the selection.
7	Fibergroup Progress Bar	These bars can be displayed by clicking on the Details button. When displayed, each progress bar may contain up to three color-coded sections to indicate results and number of fibers within a Fibergroup that are 'failed' (D), 'passed' (E), or 'incomplete' (F). You may click each section to view filtered results.

Fibergroups

Note: some features/actions on the Fibergroups screen may only appear with special permission.

Button	Function
✚	• Within Fibergroups (A): create a new Fibergroup. • Within Tools (B): create a new Test Setup.
⬆	Attach a file and associate with project or fibergroup.
ⓘ	View additional information about the fibergroup.
🔔	Manually trigger notification to remote devices that project has been altered and they should pull down changes (this normally happens automatically).
📶	View details of progress below each Fibergroup row. Sections of the progress bar show status of fibers (pass / fail / incomplete), and may be clicked to view filtered results. The screen header will also show a progress bar for the whole project.
🗑	Delete selected Fibergroup(s) and all associated results (cannot be undone). Useful to Basic accounts to reduce usage.
🗐	Create copies of selected Fibergroups (will append numerals to the names of new entries for differentiation).
✖	In a Fibergroup row: Remove the applied test setup and its results from the fibergroup.
✏	Edit Fibergroup name fields (includes fiber end names). Useful after copying Fibergroups or merging projects.
▥	View results associated with a single Fibergroup; as opposed to the Results menu (C) that shows the whole project or a progress bar section (D), which shows only results of a certain type.
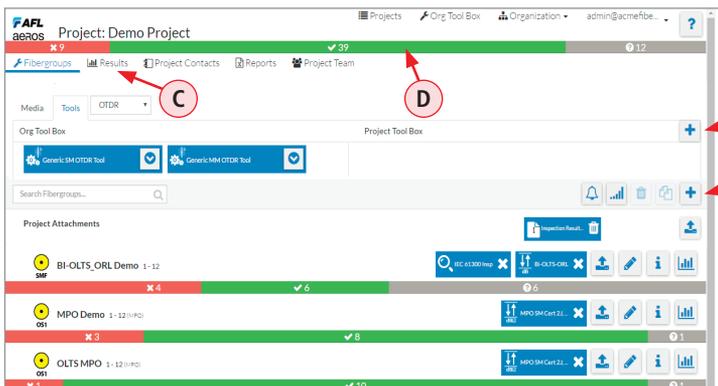
Fibergroups

Creating a Fibergroup

Project Fibergroups screen
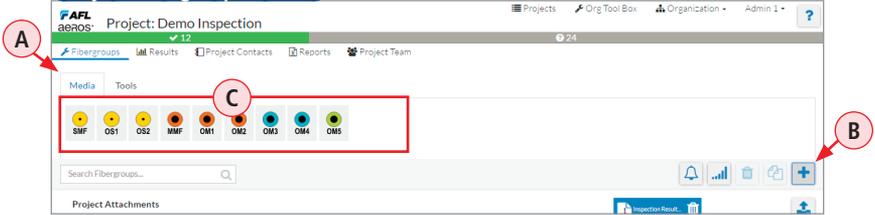
To create a Fibergroup:

- While in the Fibergroups screen with Media Tab (A) selected, click either ➕ button (B) or one of the media types (C) to display the 'Create New Fibergroup' dialog box.

- In the displayed dialog box with the Basic Tab (D) selected, define media type (E) as needed: add fibergroup name, type of network/ cable/fiber, number of fibers/ connections/splices, End1/End2 names.

- Click Create (F).

- Note that newly created Fibergroup (G) is now displayed in the Project screen.

Create New Fibergroup dialog box

Notes

- You may create as many Fibergroups as needed.

- Note that Fibergroups can be copied by selecting the fibergroup and clicking Copy - 🗐.

Project Fibergroups screen

Once Fibergroups are created, you may now apply default or user-defined Test Setups.

Applying Test Setups

Applying CERT/OLTS/Inspection Test Setups

To Apply a Test Setup

- While in the Fibergroups screen, display the Tool Box by clicking on the Tool Tab (A).

- From the Tools pull-down menu (B), select test option: Certification, OLTS, or Inspection.

- Once test option is selected, you will see Test Setups available in your Org Tool Box (C).

  - You may review details of a Test Setup by clicking its information button i .

  - If needed, you may create a new Test Setup by clicking + plus button (D). For detailed information on how to create new Test Setups see section "Test Setups and Test Limits Overview" on page 37.

- Select a fibergroup or multiple fibergroups by clicking on each fibergroup row (E).

- Apply the desired test setup to selected fibergroups by clicking its icon in the Org Tool Box (e.g. (F)). Note that test setup is now assigned to selected fibergroups (G).

- Multiple Test Setups may be applied to a fibergroup as needed.

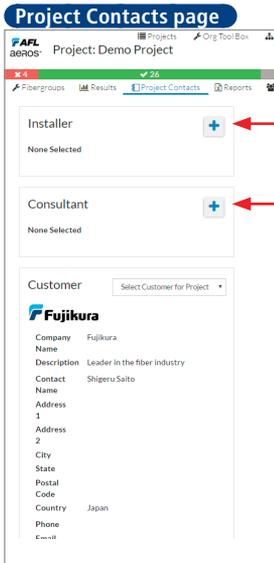- To remove the applied Test Setup and its results from the fibergroup simply click the remove button ✖ (H).

Project Details/Fibergroup screen
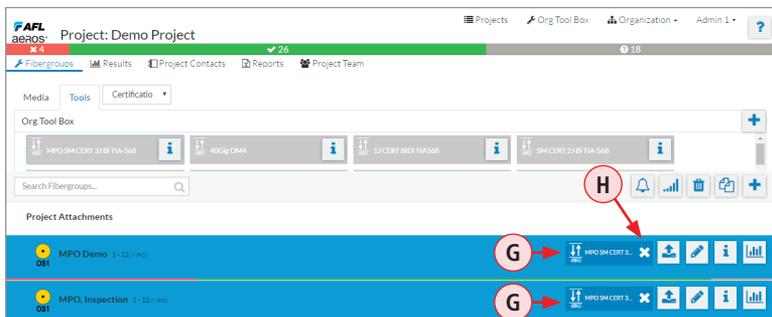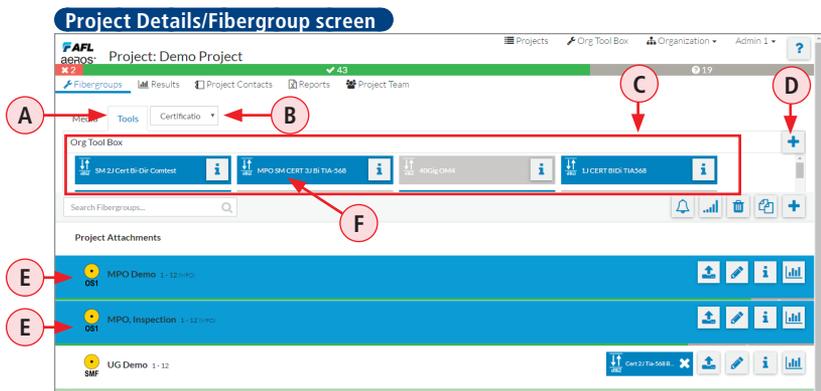
Applying Test Setups

Applying OTDR Tools

To Apply a Test Setup

- While in the Fibergroups screen, display the Tool Box by clicking on the Tool Tab (A).

- From the Tools pull-down menu (B), select OTDR test option.

- Once OTDR option is selected, you will see Test Setups available in your Org Tool Box (C) as well as Test Setups available in your Project Tool Box (D).

  - For a Test Setups available in the Org Tool Box, click ⊙ button to review details and/or save the selected Test Setup to your Project Tool Box (E).

  - If needed, you may create new Test Setup to your Project Tool Box by clicking ➕ plus button (F). For detailed information on how to create new Test Setups see section "Creating OTDR Tools - Test Setups and Pass/Fail Criteria" on page 41.

- Select a fibergroup or multiple fibergroups by clicking on each fibergroup row (G).

- Apply the desired test setup to selected fibergroups by clicking its icon in the Project Tool Box (e.g. (E)). Note that test setup is now assigned to selected fibergroups (H).

- Multiple Test Setups may be applied to a fibergroup as needed.

- To remove the applied Test Setup and its results from the fibergroup simply click the remove button ✖ (J).

Project Details/Fibergroup screen
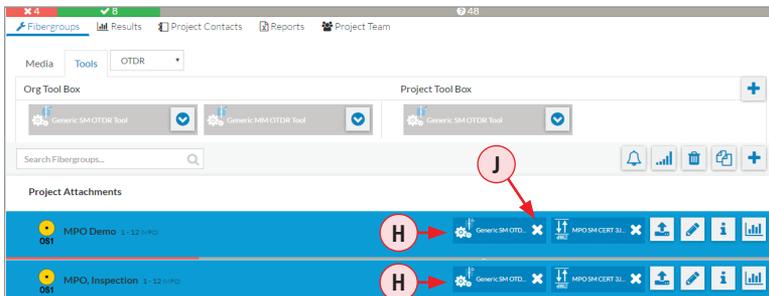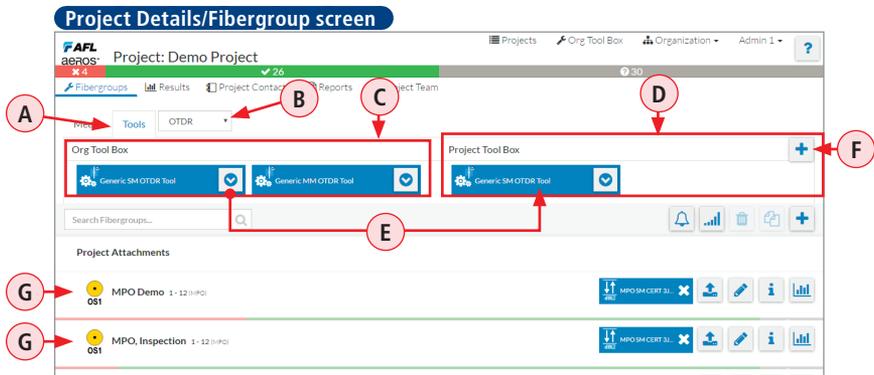
Project Contacts

Project Contacts page is accessed from the Project Details screen by clicking on the Project Contacts option. This page allows you to manage Project Contacts (Installers, Consultants, Customers) information that helps to document and identify a Project.

You have several options to view results:

- Click ➕ button (A) to display 'Edit Contact' sub-screen

- Enter contact information (B) as needed.

- Click Save (C) when Done.

Project Contacts page

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Project Team

The Project Team page/screen is accessed from the Project Details screen. It allows for management of project team assignments. A team member may be assigned to a Project as 'Supervisor', 'Technician', or Read-Only user.

- Supervisor - manages a project and has all project permissions (including assigning team)
- Technician - collects results in the field; and may invite other technicians
- Read-Only users - may only view fibergroups and results

Notes:

1. There are special organizational permissions, which allow certain users access to projects without assignment (see section "Organization Users" on page 50).

2. Since users can exist in multiple organizations with different permission levels, the Project Team screen also allows new users to be invited, without providing any special organizational permissions.

To access Project Team screen

While in the Project Details screen, click on Project Team option (A).
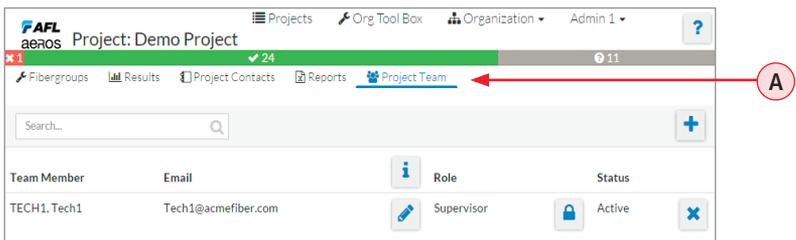
Actions Available on the Project Team Screen

Note: some features/actions on the Project Team screen may only appear with special permission.

Button	Function
✚	First allows assignment of existing users to a project role – and from that form you may choose to invite new users by following a text link.
i	Shown in "Role" columns of main table and assignment form: shows more information about roles.
✏	Edit the role of an existing user.
⏻	Manually activate a pending user.
🔒	Email user a link for a password reset.
✖	Remove an assigned user from the project (does not affect other projects, or special organizational permissions).

Project Team

To Add a Team Member to a Project

- While in the Project Team screen, click ➕ (A)
  - In the displayed 'Add Team Members' screen (B), you may either assign existing users or invite new members to a Project
- To assign existing users:
  - Chose from the library of existing users (C) and click in the column of the role (D) you want to assign to each new team member
  - Click Add (E)
- To invite new members:
  - Click 'Invite a New Team Member' option (F), see section <u>"Adding New User to the Organization" on page 51</u>
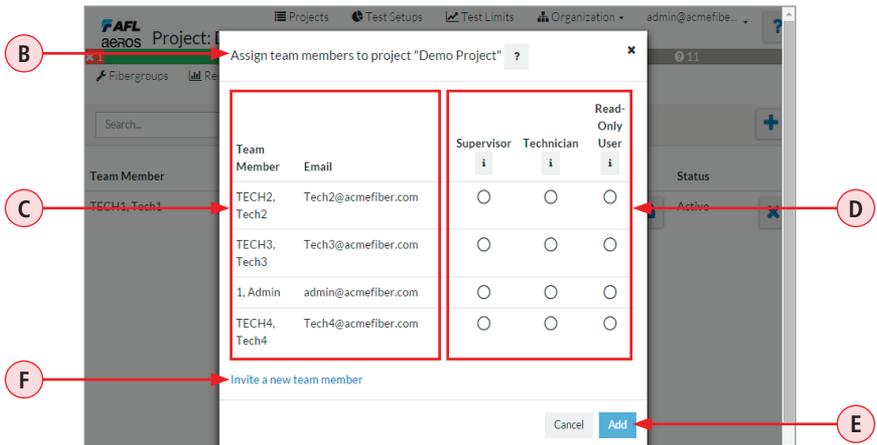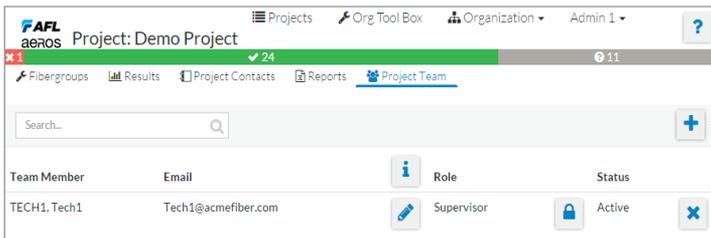
Results Overview

Ways to Display Test Results

There are several ways to review test results. Depending on your preferences and testing tasks, you may display results by one of the following methods.

1 **Results Tab** - Clicking on the Results tab will display test results for the entire Project.

2 **Results Icon** - Clicking on the Results Icon [📊] in the Fibergroup row will display results associated with a single Fibergroup.

3 **Project Progress Bar*** - Clicking on a color-coded section in the Project Progress Bar will display filtered test results (pass/fail/incomplete) for the entire Project.

4 **Fibergroup Progress Bar*** - Clicking on a color-coded section in the Fibergroup Progress Bar will display filtered test results (pass/fail/incomplete) associated with a single Fibergroup.

*Progress Bar

Project (or Fibergroup) Progress Bar may contain up to three color-coded sections to indicate the status of a Project (or Fibergroup) by a number of fibers failed (red/x) **A**, passed (green/✓) **B** or incomplete (gray/?) **C**.

Clicking on the graph icon (next to the bell) expands/collapses Progress Bar details
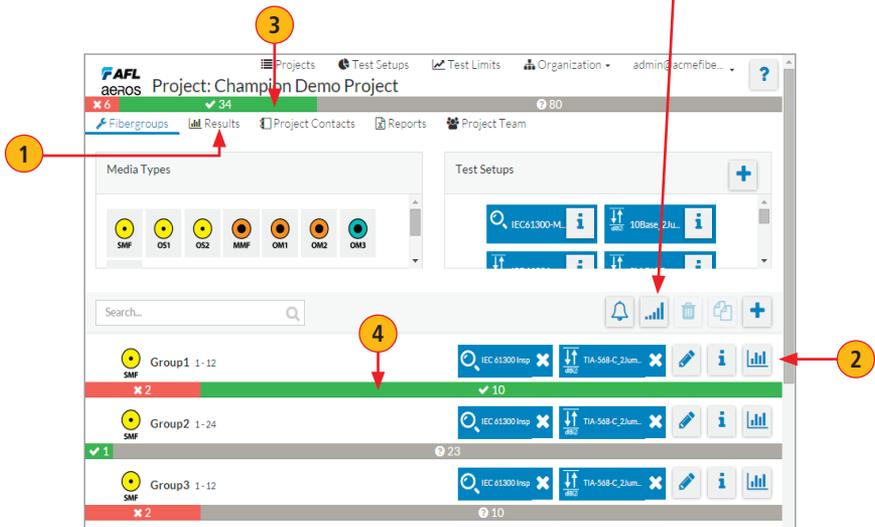
Results Overview

Summary Results for the Entire Project

Results Page is accessed from the Project Details screen:

- Form the Project dashboard, click on the desired Project name to display Project Details screen

- From the Project Details screen, clicking on the Results tab (A) will display Results Summary for all test types (Certification, Inspection, OLTS, OTDR) for the entire Project

  - Clicking on a fiber group row (B) will display all results for individual Fiber Group
  - Clicking on a test type (C) within a fiber group will display result of individual test type

Results Summary page

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Results Overview

Viewing OLTS/Certification Test Results

Ref	Description
1	Search Filter allows to display test results by result type (pass/fail/incomplete)
2	Fiber Group name; color indicates pass (green) or fail (red)
3	Info button - If present, click to view additional information about the fibergroup
4	Fiber length - displayed in user-selected distance units
5	Test wavelengths (nm)
6	Loss (dB) of fiber End1>End2 for each wavelength; color indicates pass (green) or fail (red)
7	Loss (dB) of fiber End2>End1 for each wavelength; color indicates pass (green) or fail (red)
8	Average loss (dB) for each wavelength; color indicates pass (green) or fail (red)
9	Optical Return Loss (dB) End1>End2 for each wavelength; color indicates pass (green) or fail (red)
10	Optical Return Loss (dB) End2>End1 for each wavelength; color indicates pass (green) or fail (red)

Results Overview

Viewing OTDR Test Results

Results Page is accessed from the Project Details screen:

- Form the Project dashboard, click on the desired Project name to display Project Details screen
- From the Project Details screen, clicking on the Results tab (A) will display Results Summary for all test types (Certification, Inspection, OLTS, OTDR) for the entire Project
  - Select Fiber Group & OTDR (B) test type if multiple results available

Once the OTDR Results screen is displayed, you will see a summary of OTDR test data as well as you will have options to display test results in LinkMap View or Trace View.

- Trace View icon (C) - click to view Trace view data for the selected Fiber
- Event Table icon (D) - click to view LinkMap with Event Table data for the selected Fiber
- Info Icon within results (E) - click to view information for the selected Fiber

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Results Overview

Understand LinkMap View

LinkMap is an icon-based representation of the analyzed network.
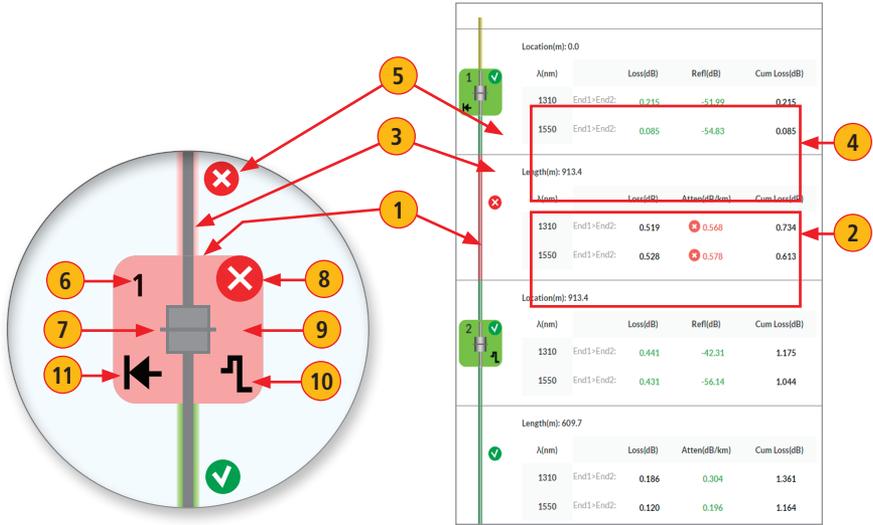
Ref	Description
1	Event icon: event icons may be green (pass), red (fail), or gray (not evaluated). Pass/fail is based on event loss and reflectance criteria configured in the currently applied OTDR tool.
2	Event test data.
3	Fiber section between events. Background color of each fiber section indicates pass (green), fail (red), not evaluated (no background shading), launch or receive cable (yellow). Pass/fail is based on fiber section loss and reflectance criteria configured in the currently applied OTDR tool.
4	Fiber section test data.
5	Pass/Fail indicator of a fiber section
Event Icon Details	
6	Event ID - event number
7	Event Symbol indicates event type (connector, splice, macro-bend)
8	Pass/Fail indicator
9	Event background color indicates pass (green), fail (red), not evaluated (gray)
10	Reflective or non-reflective indicator
11	Start/End indicator

Results Overview

Understand and Read LinkMap Table
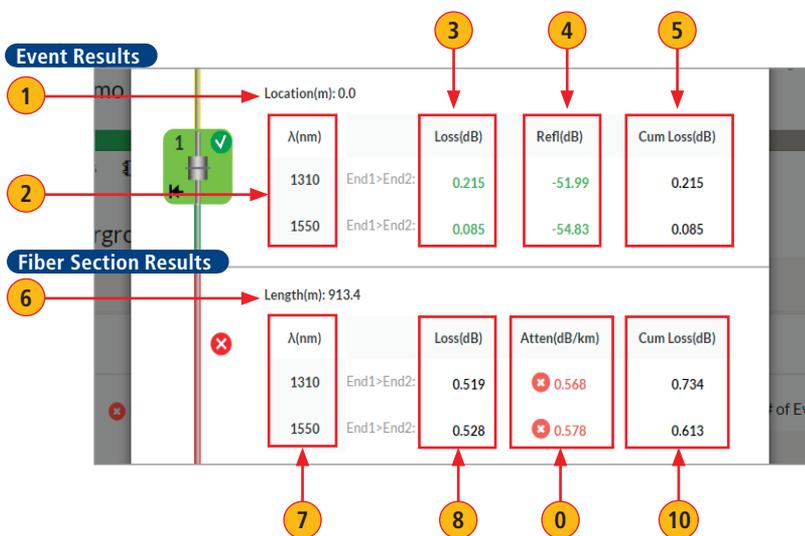
Ref	Description
Event Results	
1	Event Location data - distance to event from the network start at 0.0
2	Test wavelengths (nm)
3	Loss of event (dB) for each wavelength; color indicates pass (green) or fail (red)
4	Reflectance of event (dB) for each wavelength; color indicates pass (green) or fail (red)
5	Cumulative Loss from network start to event end (dB) for each wavelength
Fiber Section Results	
6	Fiber Section Length displayed in user-selected distance units
7	Test wavelengths (nm)
8	Loss of fiber section (dB) for each wavelength; color indicates pass (green) or fail (red)
9	Attenuation (loss/distance) of fiber section for each wavelength; color indicates pass (green) or fail (red)
10	Cumulative loss to end of fiber section (dB) for each wavelength

Note: Measurements are evaluated against enabled event and fiber section test limits.

Navigate Trace in A-B Cursor View

- Display the A-B Cursor view by selecting the A-B Cursor option (A)
- Touch A or B cursor label (B) to make it active. In the example screen below, A is shown as the active cursor (solid line), while B is shown as inactive (dashed line)
- Drag the active cursor to desired position
  - Location @ cursor displayed
  - Loss @ cursor displayed for each wavelength
- Touch left/right arrow on cursor flag (C) to jump to previous/next event
- Touch and drag in graph to zoom in on selected portion of trace (D)
- View A-B cursor data:
  - Location & Loss at A cursor (E)
  - Location & Loss at B cursor (F)
  - Distance and Loss from A to B (G)
  - Loss/Distance from A to B (H)
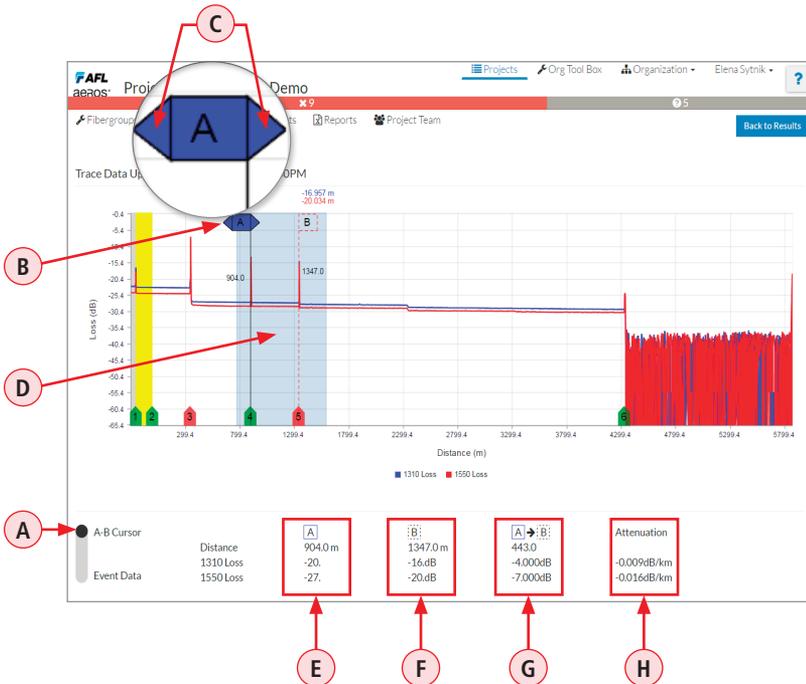
Navigate Trace in Event Data View

- Display the Event Data view by selecting the Event Data option (A)

- Touch A or B cursor label (B) to make it active. In the example screen below, A is shown the active cursor (solid line), while B is shown as inactive (dashed line).

- Touch left/right event arrow (C) to jump to previous/next event

- Touch left start arrow (D) to jump to Start

- Touch right end arrow (E) to jump to End

- View Event Data:

  – Loss of the selected event at each wavelength (F); color indicates pass (green) or fail (red)

  – Reflectance of the selected event at each wavelength (G); color indicates pass (green) or fail (red)

  – Cumulative Loss (H) from the network start to the selected event at each wavelength; color indicates pass (green) or fail (red)

Reports Overview

Generating a Report

Reports may be configured, previewed and generated in the Project Reports screen. This screen allows the user to generate a standard or customized report on any or all data collected for a Project at any time. The Project Reports screen is accessed by clicking on the Reports tab (A).

To Generate a Standard Report (no filters enabled)

(1) Click on the Create Report button located at the bottom of the screen. It will take a few seconds for a link to appear in the Download window (B).

(2) When a 'Download Report' appears, click on it to download a standard .pdf report (C).

Reports Overview

Generating a Report

To Generate a Customized Report

A customized report may be configured by enabling various Filters.

1 Enable filters as needed by clicking on a filter check box: Media Type, MPO or non-MPO, Fiber Group, Results Type, Test Type.
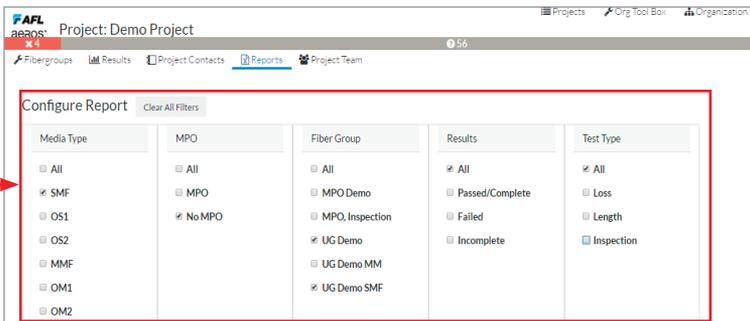
2 Notice that enabled Filters are now displayed under the Current Filter category.

3 Once the desired Filters are enabled, the Active Data window will display a sample output.

4 Select the output format: Reports in PDF format **A** or export to XLS/CSV format **B**

- Reports in PDF format **A**: OTDR LinkMap & Events, Loss Summary. Loss and Inspection Details, Inspection Detail, or Inspection Summary.

- For OTDR LinkMap & Events Report (PDF), you may chose to include Team Members information (users assigned to the Project) and/or Customer Contact information (if available) and whether or not to include Fiber Sections in the report.
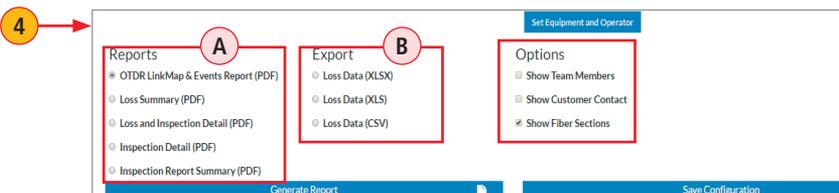
Generating a Report

- For Loss Summary (PDF) and Loss and Inspection Detail (PDF), you may chose to include Team Members information (users assigned to the Project) and/or Customer Contact information (if available).

- If needed you may include Equipment and Operator ID information (**B**).

- You may save configuration for repeated use by selecting the Save Configuration option (**C**).

- (**D**) For Excel (XLSX)/(XLS) and Data (CSV) Output: reports may be customized by clicking Customized Export button. When the Spreadsheet Preview window (**E**) is displayed, you may disable/enable individual Data Columns as needed.

5 When Done configuring, click on the Create Report button. It will take a few seconds for a link to appear in the Download window (**F**).

6 When a 'Download Report' appears, click on it to download a report.

Organization Menu Overview

Two Ways to Access the Organization Menu

The Organization Tool Box features various Test tools to guide testing with your ROGUE modular hardware and allows you to create standard and/or custom setups that can be applied to Fibergroups of a Project. There are two ways to access the Organization Tool Box.

Access Org Tool Box from the Main Menu bar

When Org Tool Box is accessed from the Main Menu (A), it allows you to create new Tools (Test Setups and Test Limits) for the Organization.

Organization Tool Box accessed from the Main Menu
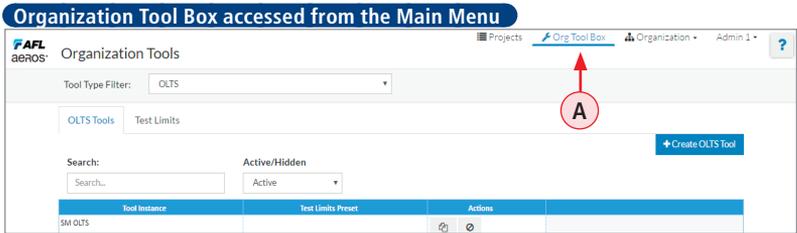
Access Org Tool Box from the Fibergroups screen

When Org Tool Box is accessed from the Fibergroups screen by selecting the Tools Tab (B), it allows performing several functions:

- Apply Tools to the selected Fibergroups
- Create new Tools for the Organization Tool Box
- **OTDR test only!** Create Tools for the Project Tool Box

Fibergroups screen
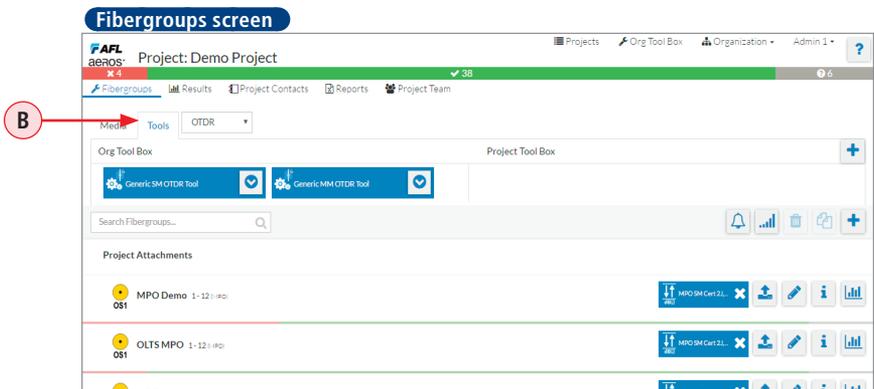
Organization Tool Box Overview

Organization Tool Box as Accessed from the Main Menu

Screen Features

The Organization Tool Box (Library) contains various Test Tools (Test Setups and Test Limits) available for your organization.

Organization Tools screen
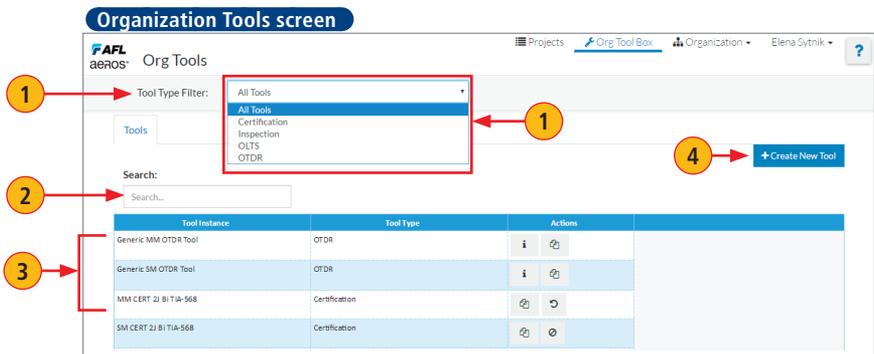
Ref	Screen/Feature	Description
1	Tool Type Filter	This feature allows you to filter and display test setups by test type 'Certification', 'Inspection', 'OLTS', 'OTDR' or see 'All Tools'.
2	Search Box	The 'Search' feature allows you to search for a test setup by entering keywords into the search box field.
3	Test Tools List	A list of Setups is displayed according to the filter options set in ①.
4	Create New Tool Button	Pressing this button allows you to create a New Tool.

Actions Available on the Organization Tools Screen

Note: some features/actions on the Test Setups screen may only appear with special permission.

Button	Function
➕	Create a new New Tool (Test Setup or Test Limit).
✏️	Edit a Tool (Test Setup or Test Limit).
🗐	Create a copy of an existing Tool (Test Setup or Test Limit).
ℹ	View additional information/details.

Button	Function
⊘	Disable (hide) an existing Tool (Test Setup or Test Limit).
↻	Reload a disabled Tool (Test Setup or Test Limit).
🗑	Delete a Tool (Test Setup or Test Limit) from the organization.

Test Setups and Test Limits Overview

Creating Certification Tools - Test Setups and Test Limits

To Create New Certification Test Setup

- From the Tool Type drop down menu, select Certification (A).

- Click on the Certifications tab (B) to enable the Test Setup settings mode.

- Click Create Certification (C).

- Define fiber type: single-mode or multimode (D).

- Click Proceed (E).

- In the displayed Certification Test Setup dialog box (F), define test setup parameters as needed: add name and description, assign test limits (if applicable), select test direction and reference method.

- Click Save (G) to store the newly created Test Setup in your Organization Tools Library.

- Once saved, the newly created Test Setup appears listed in the Tools Library (H).
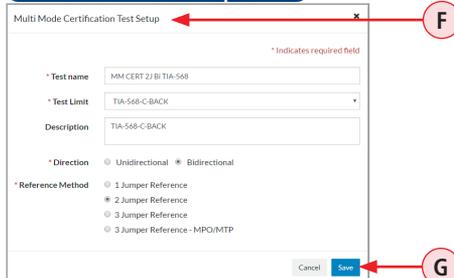
Test Setups and Test Limits Overview

Creating Certification Tools - Test Setups and test Limits

To Create New Certification Test Limit

- From the Tool Type drop down menu, select Certification (A).

- Click on the Test Limits tab (B) to enable the Test Limit settings mode.

- Click Create Test Limit Preset (C).

- In the displayed New Test Limit dialog box (D), define the test limit by specifying various test parameters (e.g. Fiber Type, Loss Thresholds Type, Max Length, etc.) as needed.

- Click Save (E) to store the newly created Test Limit in your Organization Tools Library.

- Once saved, the newly created Test Limit appears listed in the Tools Library (F).

New Test Limit screen

Test Setups and Test Limits Overview

Creating OLTS Tools - Test Setups and Test Limits

To Create New OLTS Test Setup

- From the Tool Type drop down menu, select OLTS (A).

- Click on the OLTS Tools tab (B) to enable the Test Setup settings mode.

- Click Create OLTS Tool (C).

- Define fiber type: single-mode or multimode (D).

- Click Proceed (E).

- In the displayed OLTS Test Setup dialog box (F), define test setup parameters as needed: add name and description, assign test limits (if applicable), select test direction and reference method.

- Click Save (G) to store the newly created Test Setup in your Organization Tools Library.

- Once saved, the newly created Test Setup appears listed in the Tools Library (H).

OLTS Test Setup screen
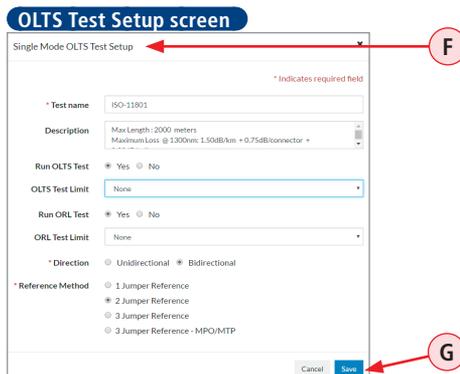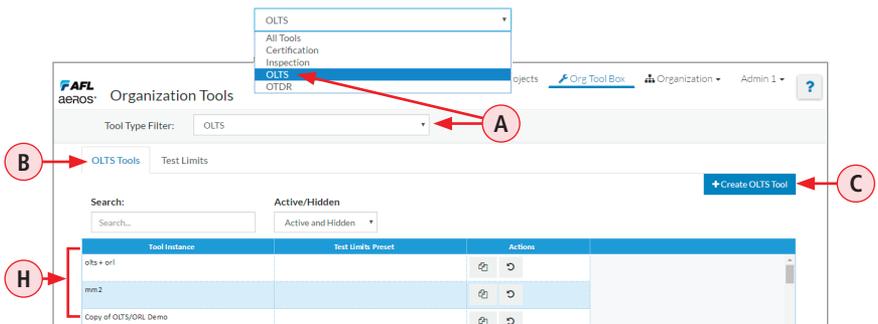
Test Setups and Test Limits Overview

Creating OLTS Tools - Test Setups and Test Limits

To Create New OLTS Test Limit

- From the Tool Type drop down menu, select OLTS (A).
- Click on the Test Limits tab (B) to enable the Test Limit settings mode.
- Click Create Test Limit Preset (C).
- In the displayed New Test Limit dialog box (D), define the test limit by specifying various test parameters (e.g. Fiber Type, Loss Thresholds Type, Max Length, etc.) as needed.
- Click Save (E) to store the newly created Test Limit in your Organization Tools Library.
- Once saved, the newly created Test Limit appears listed in the Tools Library (F).

New Test Limit screen

Test Setups and Test Limits Overview

Creating OTDR Tools - Test Setups and Pass/Fail Criteria

To Create New OTDR Test Setup

- From the Tool Type drop down menu, select OTDR (A).
- Click on the OTDR Tools tab (B) to enable the Test Setup settings mode.
- Click Create OTDR Tool (C).
- Define fiber type: single-mode or multimode (D).
- Click Proceed (E).
- In the displayed Create OTDR Tool dialog box (F), define test setup parameters as needed:
  - Enter new OTDR Tool name
  - Select Network Type: single-mode or multimode
  - Select Test Mode: SmartAuto or Expert
  - Select Wavelength: SM -1310 and/or 1550 nm; MM - 850 and/or 1300 nm

Test Setups and Test Limits Overview

Creating OTDR Tools - Test Setups and Pass/Fail Criteria

- Define OTDR location (End 1 or End 2)

- Specify Launch and/or Receive Cable Length

- Configure Event Pass/Fail Criteria (G): you may either select from the existing presets or create a new preset

- Configure Link Pass/Fail Criteria (H): you may either select from the existing presets or create a new preset.

• Click Save (J) to store the newly created Test Setup in your Organization Tools Library.

• Once saved, the newly created Test Setup appears listed in the Tools Library (K).

Certification Test Setup screen

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Test Setups and Test Limits Overview

Creating OTDR Tools - Test Setups and Pass/Fail Criteria

To Create New Event Pass/Fail Criteria

- From the Tool Type drop down menu, select OTDR (A).

- Click on the Event Pass/Fail Criteria tab (B) to enable the Pass/Fail Criteria settings mode.

- Click Create Event Pass/Fail Criteria Preset (C).

- In the displayed dialog box (D), configure Event Pass/Fail Criteria parameters as needed:

- Click Save Preset (E) to store the newly created Preset in your Organization Tools Library.

- Once saved, the newly created Preset appears listed in the Tools Library (F).

Event Pass/Fail Criteria Preset screen

Test Setups and Test Limits Overview

Creating OTDR Tools - Test Setups and Pass/Fail Criteria

To Create New Link Pass/Fail Criteria

- From the Tool Type drop down menu, select OTDR (A).
- Click on the Link Pass/Fail Criteria tab (B) to enable the Pass/Fail Criteria settings mode.
- Click Create Link Pass/Fail Criteria Preset (C).
- In the displayed dialog box (D), configure Link Pass/Fail Criteria parameters as needed:
- Click Save Preset (E) to store the newly created Preset in your Organization Tools Library.
- Once saved, the newly created Preset appears listed in the Tools Library (F).

Event Pass/Fail Criteria Preset screen

Test Setups and Test Limits Overview

Creating Inspection Tools - Test Setups and Test Limits

To Create New Inspection Test Setup

- From the Tool Type drop down menu, select Inspection (A).

- Click Create Inspection (B).

- Define fiber type: single-mode or multimode (C).

- Click Proceed (D).

- In the displayed Inspection Test Setup dialog box (E), define test setup parameters as needed: add name, ends to be inspected, assign Pass/Fail standards.

- Click Save (F) to store the newly created Test Setup in your Organization Tools Library.

- Once saved, the newly created Test Setup appears listed in the Tools Library (G).
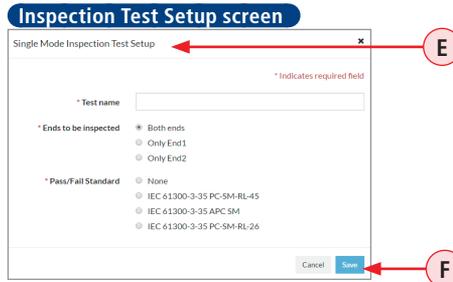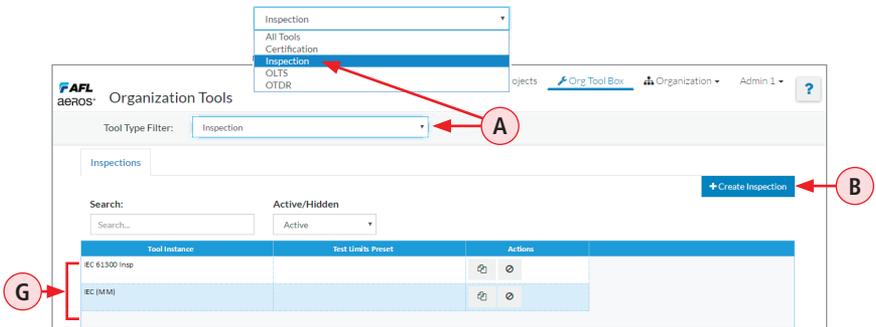
Organization Setup Overview

Organization Menu

The Organization Menu (A) is accessed from the Main Menu bar. It provides access to several screens that allow you to manage Licences, ROGUE devices, Administrators and Project Managers, Users, and Contacts/Customers.
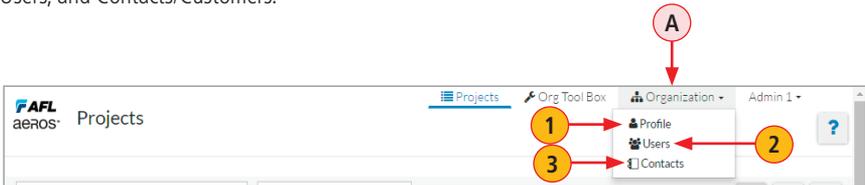
Ref	Menu Option	Description
1	Profile	Select this option to access the Organization Profile screen, which allows management of your organization: • Review Organization information • Add and manage Licenses • Manage Administrators and Project managers • Manage Organization Users • Manage ROGUE devices
2	Users	Select this option to access the Organization Profile screen, which allows management of aeRos users within the organization.
3	Contacts	Select this option to access the Organization Contacts screen, which allows management of the organization contacts.

Information about Users, Contacts, and Customers added through the Organization Menu will be available to use while creating Projects in the Projects Detail scree > Project Team page.
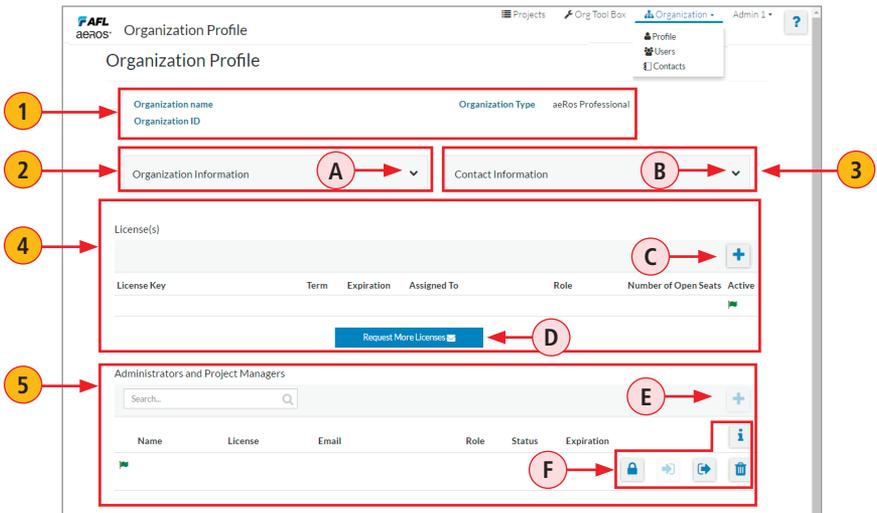
See section "Project Team" on page 22.

Organization Setup Overview

Organization Profile

The Organization Profile screen, allows management of your organization.

Note: some features on the Organization Profile screen may only appear with special permission.

Ref	Feature	Description
1	Organization Information field	Displays Organization Name, ID and aeRos License type for your Organization (aeRos BACIS or aeRos Professional).
2	Organization Information screen	Press the arrow button (A) to view the Organization Information screen, which allows you to enter or edit Organization Information.
3	Contact Information screen	Press the arrow button (B) to view the Contact Information screen, which allows you to enter or edit Contact Information.
4	Licences field	Displays a list of licences in your Organization. Allows you to: • Add purchased Licences by clicking ✚ button (C) • Contact AFL to request more Licences by clicking Request More Licences button (D)
5	Administrators/ Managers field	Allows you to manage Administrators/Managers assignments and licences for the organization: • Add new members by clicking ✚ button (E) • Use Tools Panel (F) to manager assignments/licences. Buttons located on tools panel provide shortcuts for specific actions. For details, see the following section. • 🚩 GREEN flag icon indicates active member • 🚩 RED flag icon indicates Suspended member

Organization Setup Overview

Organization Profile

Ref	Feature	Description
6	Organization Users	Allows you to manage Users assignments and licences for the organization: • Add new members by clicking ➕ button (G) • Use Tools Panel (H) to manager assignments/licences. Buttons located on tools panel provide shortcuts for specific actions. For details, see the following section. • 🚩 GREEN flag icon indicates active member • 🚩 RED flag icon indicates Suspended member
7	ROGUE Units	Allows you to manage your ROGUE devices • Add new devices by clicking ➕ button (J)

Organization Setup Overview

Note: some features/actions on the Projects Dashboard may only appear with special permission.

Button	Function
✚	Add a new License / Add a new ROGUE Device
ℹ	View additional information/Details
✏	Change the role of an existing user within the organization
🔒	Email user a link for password reset.
➡]	Assign a user to a license
➡	Unassign a user from a the assigned license
🗑	Delete a user from the organization (does not affect their access to other organizations)

Organization Setup Overview

Organization Users

Organization Users screen

| Ref	Screen/Feature	Description
1	Search Box	The 'Search' feature allows you to search for users by entering keywords into the search box field.
2	User Name/ Contact email	These columns Display User Name and contact email.
3	Role	Displays user role within organization.
4	Status	Indicates User status

Actions Available on the Organization Users Screen

Note: some features/actions on the Users screen may only appear with special permission.

Button	Function
✚	Create a new User (sends an invitation email).
i	Read information about the user account role/permissions in the Organization.
✏	Change the role of an existing user within the Organization.
🔒	Email user a link for password reset.
🗑	Delete a user from the organization (does not affect their access to other organization).

Organization Setup Overview

Adding New User to the Organization

Organization Users screen
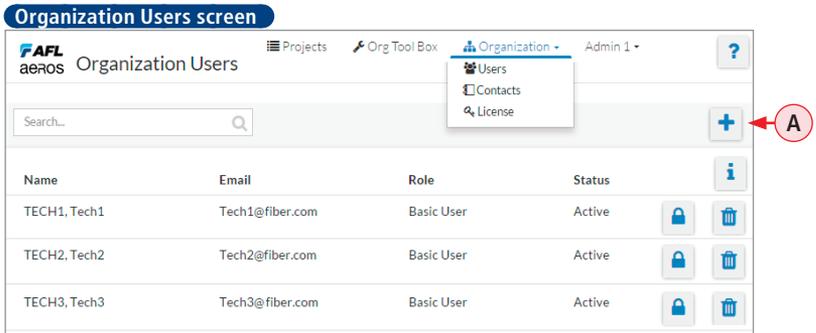
- While in the Organization Users screen, click ✚ (A).
- In the displayed 'Invite a New User' screen
  - Fill the required fields (name, email) (B)
  - Define user's Role by selecting from the role options (C).
- Click Send Invitation (D)
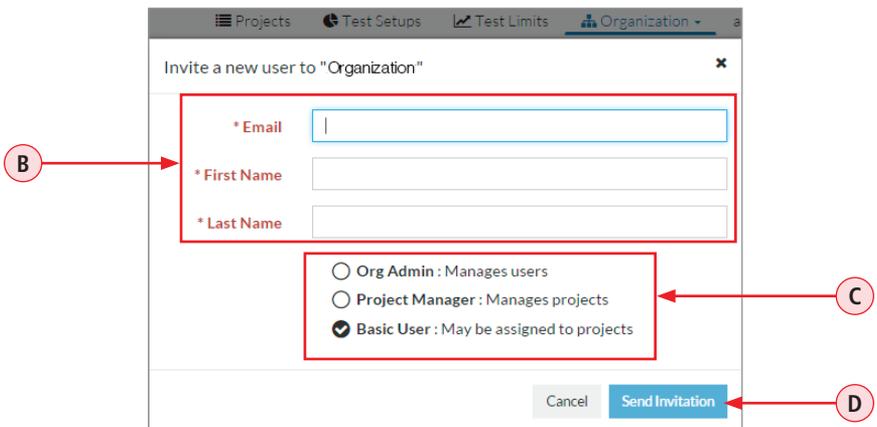
- Once invited, a new user will receive an email asking to accept the invitation and requiring the new user to set a password.
- Once accepted, the new user will appear as a member of the Organization and will be available to assign to projects.

Organization Setup Overview

Organization Contacts

The Organization Contacts screen allows management of the organization contacts.
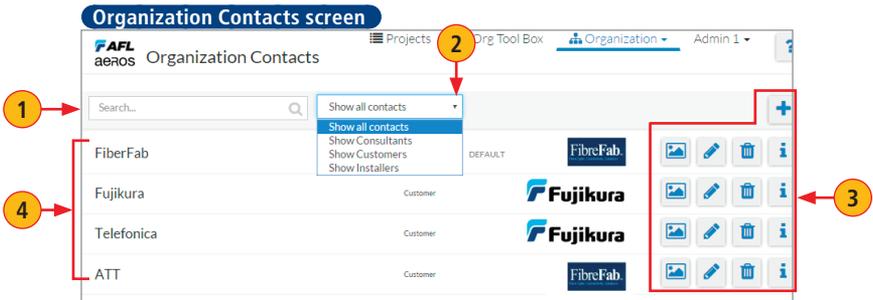
Ref	Screen/Feature	Description
1	Search Box	The 'Search' feature allows you to search for contacts by entering keywords into the search box field.
2	Search Filter	This feature allows you to filter searches and display contacts by on of the option: 'Consultants', 'Customer', 'Installers' or 'Show all Contacts'.
3	Tools Panel	Buttons located on tools panel provide shortcuts for specific actions. See table below for details
4	Contacts List	A list of contacts is displayed according to the filter options set in ②.

Actions Available on the Organization Contacts Screen

Note: some features/actions on the Users screen may only appear with special permission.

Button	Function
➕	Create a new contact record.
✏️	Edit an existing contact record.
🗑️	Delete an existing contact record (cannot be undone).
ℹ	View details of an existing contact record.
🖼️	Manage an existing contact Logo.

Thank you for choosing AFL Test & Inspection!

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