



StrataSync 11.5

Release Notes



Notice

Every effort was made to ensure that the information in this manual was accurate at the time of printing. However, information is subject to change without notice, and VIAVI reserves the right to provide an addendum to this manual with information not available at the time that this manual was created.

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Summary of StrataSync 11.5 Changes

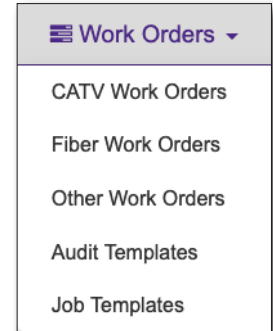
- Job Templates deployment and referencing during workflow
- New Optimeter dashboard
- General dashboard improvement
- Instrument-based login for Mobile Tech
- Mobile Tech centralized settings
- Failed Test email notification
- OneExpert CATV configuration enhancements
- General improvements / Bug fixes

New features

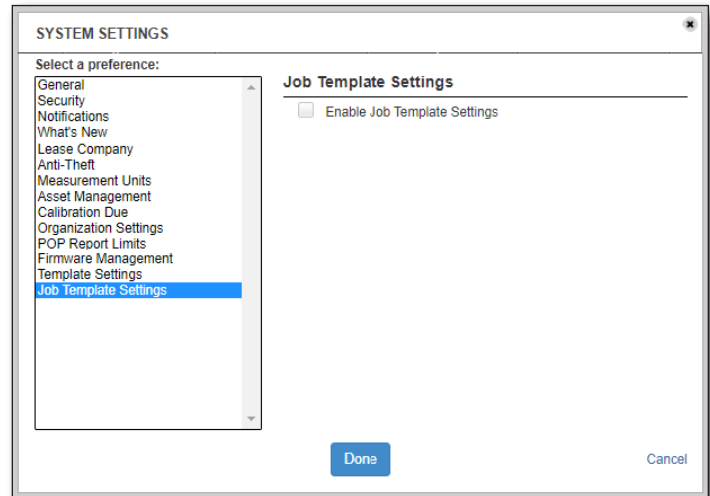
Job Templates deployment and referencing during workflow

Job Template deployment and centralized repository management

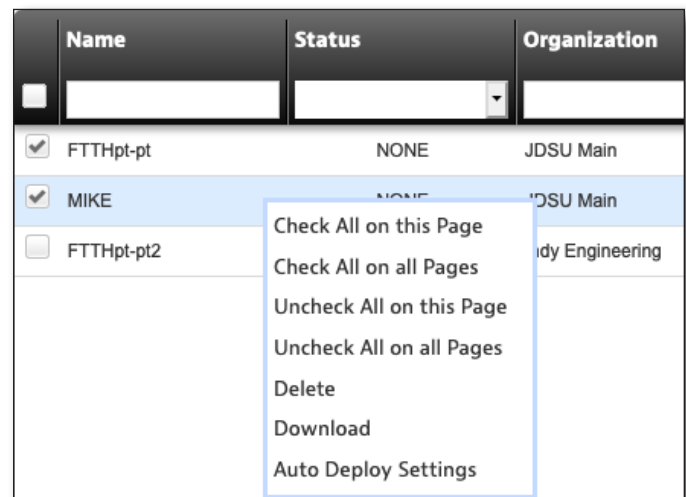
- A new link has been added to manage Job Templates under the 'Work Orders' tab.



- The Job Template capability can be enabled and disabled for the entire Customer Account using System Settings.

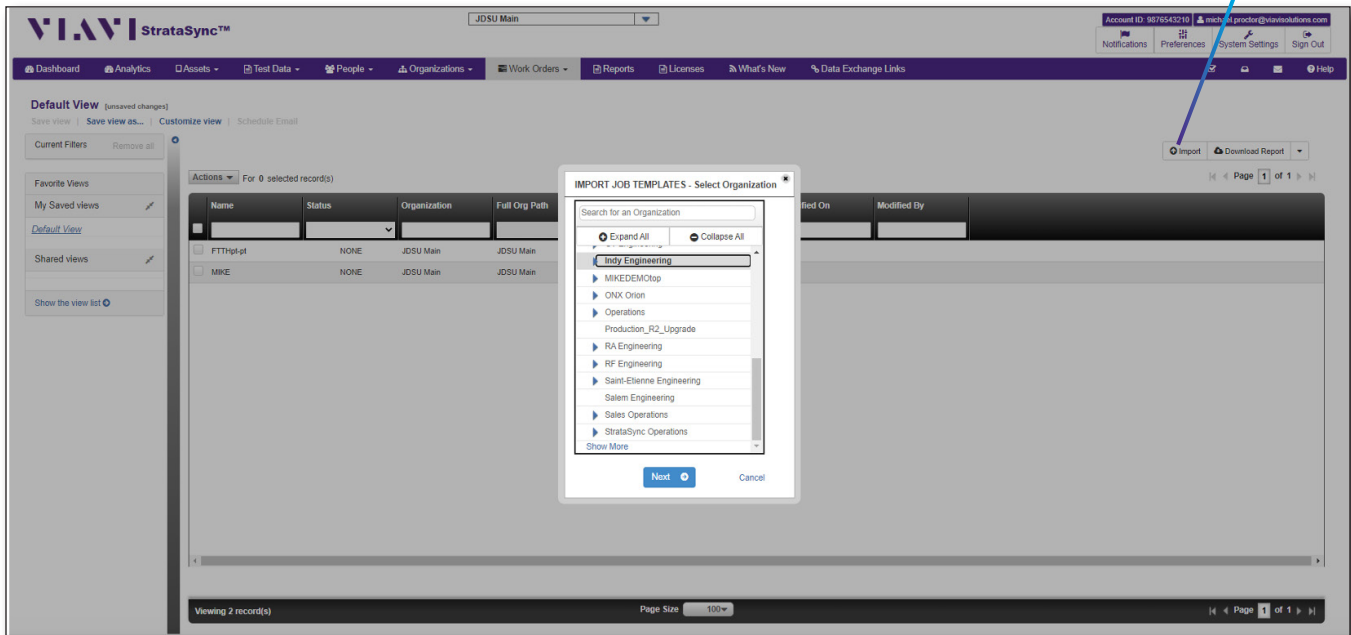


- Ability to bulk-select Job Templates and set up for auto-deploy per organization.

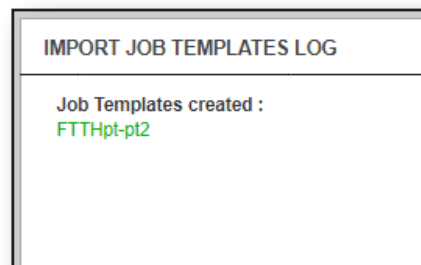
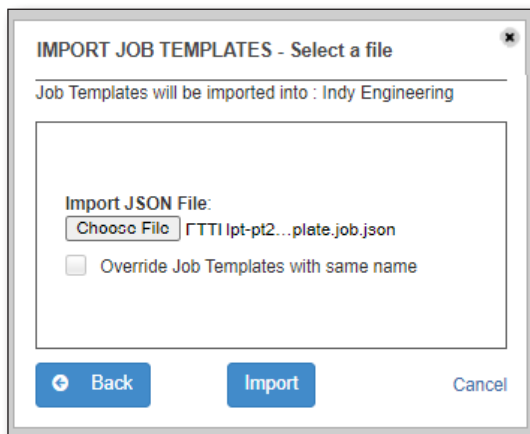


- Ability to import a CDM 2.1-compatible Job Template. A Job Template is associated to an organization and can only be deployed to assets that belong to that organization and its sub-organizations.

Import



Job Template import



- The uniqueness of the Job Template is enforced using a combination of the StrataSync customer AccountId, and the job template name (case insensitive) – this is especially important when referencing job templates during workorder integration. When importing templates, the user is asked if they want to overwrite templates with the same name, otherwise the import won't succeed when a matching name is found.
- Ability to update Job Template by importing a template with the same name (by selecting "Override Job Templates with same name").

- Ability to copy a Job Template from an asset to the central Job Templates repository.
- Ability to rename a Job Template.
- Ability to deploy a Job Template to multiple assets in single operation:
 - Manual Deploy – Can deploy only one Template to one or more assets.
 - Auto-deploy – Can deploy multiple Job Templates to assets in bulk:
 - Bulk Job Template auto-deploy set up is allowed only if all assets belong to the same organization, otherwise this has to be set up with each Job Template, one at a time.
 - When an organization is participating in auto-deploy of Job Templates, StrataSync makes sure each asset will have templates that are set up for auto-deploy. If an asset uploads a Job Template that is not participating in auto-deploy then StrataSync will issue all auto-deploy templates. This will remove any unwanted Job Templates that are not part of auto-deploy.
- Auto-Deploy Asset Deployment Rules
 - When a new asset is automatically added to an organization.
 - When an asset is moved into an organization due to re-assigning to a technician (which that asset is associated to).
 - A Job Template with an empty 'deployableTo' list can be deployed to instruments of different asset types.
 - A Job Template with a defined 'deployableTo' list can only be deployed to asset types that are present in that list.

Job Template referencing during workflow integration

During workflow integration using StrataSync's Workflow JSON API, and using the generic job type "viaviJob", a new workorder posted to the API can reference an existing job template stored in StrataSync's central repository for that customer account, using the 'typeName' field.

By referencing a job template, a customer may only input mandatory fields representing values that change per-job, but rely on the job template definition to support other static details such as the test plan definition and test configuration setup.

If the incoming job definition defines a particular object in the Common Data Model (CDM) job definition then this takes priority over the referenced Job Template, otherwise if an object is defined in the Job Template, this is copied to the job definition before making it available for asset (test instrument) deployment.

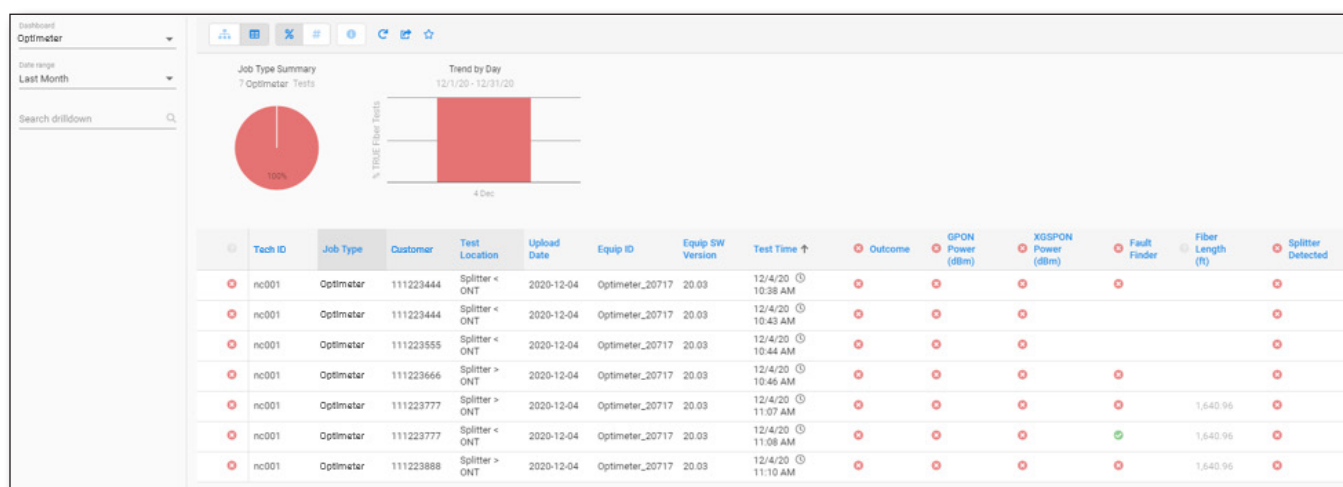
New Optimeter dashboard

Supports a new Optimeter dashboard under the “Analytics” tab in the StrataSync UI for accounts configured for this capability. By default, it supports viewing the new [Optimeter](#) test results aggregated according to the organizations configured in the StrataSync account, and the ‘techId’ indicated in the received test results. The dashboard displays and aggregates pass/fail indicators based on the criteria used during the test.

Optimeter test results are displayed per-Tech ID and may be aggregated by the organization hierarchy defined for the customer account. The timeline for the results is according to the selected relative or absolute date window. Customers can choose to drill-down through the results in a hierarchical view (with summarized pass/fail per-Tech ID), or in a tabular view per-test. An overall summary is always displayed, along with a ‘trend-by’ chart. Additionally, a generic search capability and CSV/PDF export function are provided.

This dashboard allows customers to visually track the progress of PON testing over time across their technicians, as well as analyze the key metrics so that root causes of issues can be found and performance/quality optimized. For instance, as well as displaying the overall outcome of the test, failures can be distinguished between power levels, faults found, appropriate fiber length and whether the splitter was detected.

This dashboard works best in an overall Test Process Automation solution, whereby PON service activation test workorders are automatically provided to StrataSync, e.g. via StrataSync’s Workflow JSON API. This effectively removes the issues associated with poor or no data entry in the field for customer identification, technician IDs and test configuration selection.



Optimeter dashboard

General dashboard improvement

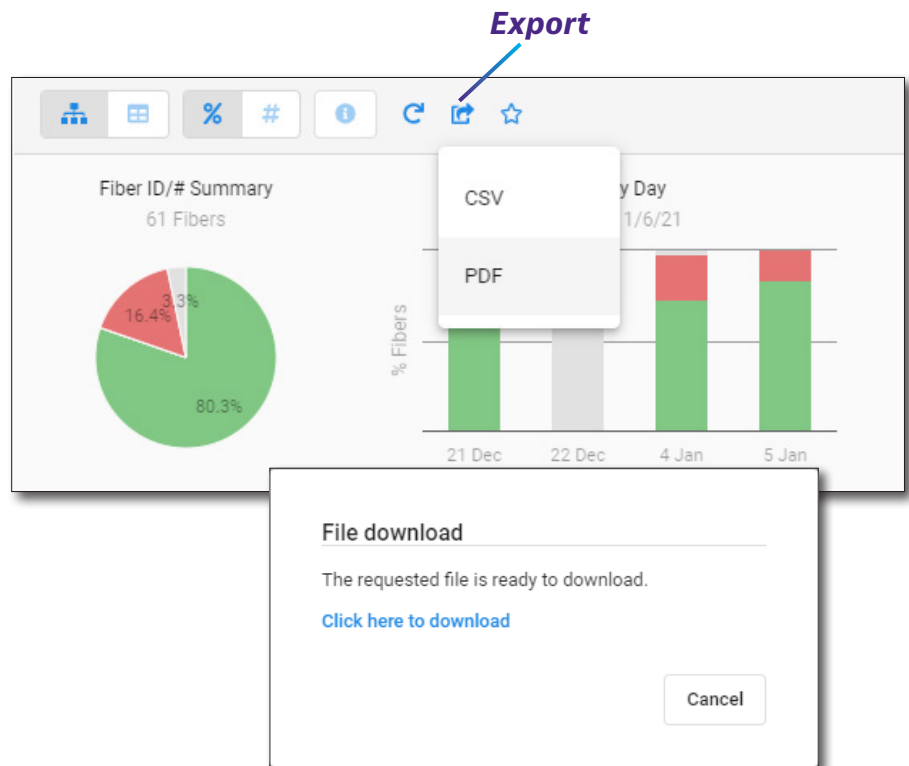
A further improvement has been made to the dashboard framework.

PDF export

Now the 'Export' button has a dropdown allowing the user to select either CSV or PDF output options. The PDF option, unlike the CSV export, provides the same graphical view as shown in the browser, whereas the CSV export is meant to support downloading the tabular metrics for further offline processing.

After clicking the 'PDF' selection, the 'Export' button is replaced with a spinning busy wheel.

Once the PDF file is ready to be downloaded, a 'File download' pop-up box is displayed.



Instrument-based login for Mobile Tech

Prior to Mobile Tech release 4.2 (and StrataSync release 11.5), a user could either use the VIAVI Mobile Tech application (on either an Apple iOS or Android tablet/phone) in 'Guest' mode (where it acts as a companion app to a VIAVI test instrument for the purposes of sharing files with the instrument and other endpoints, e.g. emailing test results), or a user could use Mobile Tech while logged-in to StrataSync, which additionally supports synchronizing files with a customer's StrataSync account (e.g. workorders, test results, configuration files) and may even support firmware updates. To login to StrataSync with Mobile Tech, a user would need their unique username and password combination, as if they were logging in via the web browser UI.

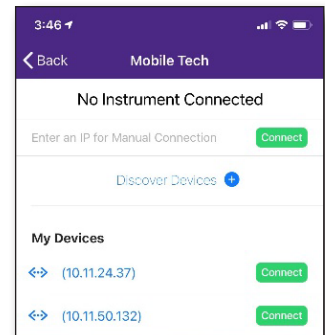
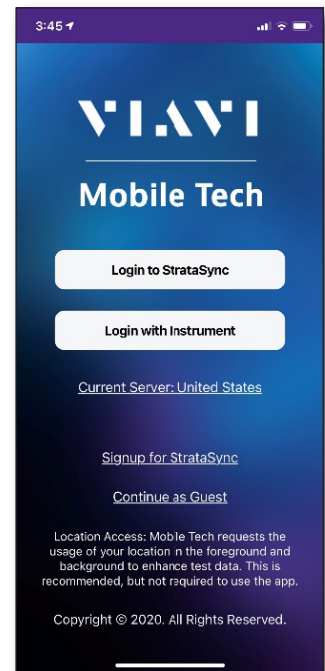
From Mobile Tech release 4.2 and StrataSync release 11.5 onwards, for compatible instruments (currently NSC-100 and Optimeter), a Mobile Tech user (typically a technician) can login to StrataSync using the connectivity details already provisioned into their VIAVI instrument:

- StrataSync server (US or EU production)
- StrataSync account ID
- StrataSync tech ID

When opening the Mobile Tech app, technicians should choose the "Login with Instrument" option, and then connect to the instrument discovered by the Mobile Tech app.

There are several pre-requisites for this functionality:

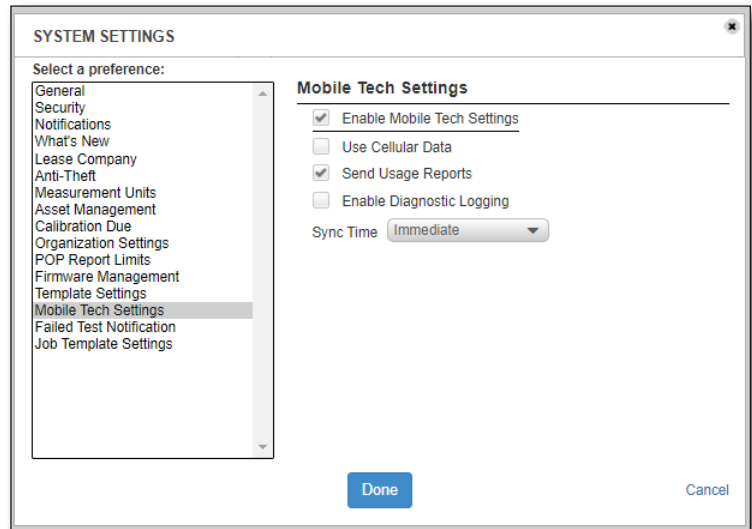
- You must have Mobile Tech version 4.2 or later installed on your Apple iOS or Android device.
- The instrument in question may require a firmware upgrade prior to supporting this capability with Mobile Tech and StrataSync – please review the release notes for your instrument to see if it supports this capability, and from which firmware release this was supported.
- The Unique Id of the instrument must be present in the StrataSync customer account. This can be achieved in any one of the following ways:
 - The instrument has been 'Factory-Synced' with/without a techId.
 - The instrument must have synced at least once to the Customer account using the instrument's direct sync method.
 - The instrument details have been added manually using the 'Asset Import' functionality in StrataSync.
 - The instrument details have been added manually using the Assets tab 'Add a new asset' function in StrataSync.
- The user's Tech ID must be present in the StrataSync customer account (it is not required that the instrument is currently associated with this Tech ID).



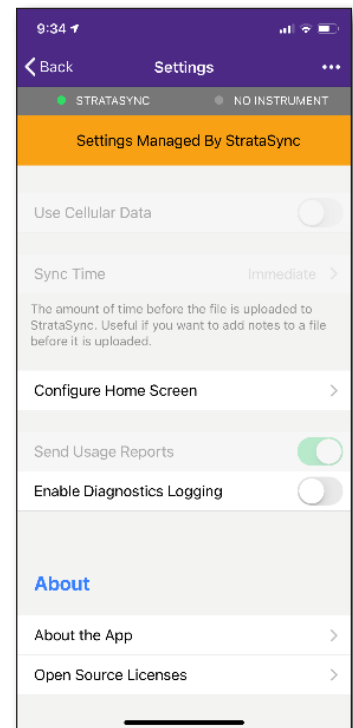
Mobile Tech centralized settings

To help with the consistent configuration of the VIAVI Mobile Tech app across a large fleet of technicians, StrataSync has added centralized Mobile Tech settings for accounts configured for this capability.

These are configured from the 'System Settings' menu and are applicable for all Mobile Tech users associated with the StrataSync account.



When the 'Enable Mobile Tech Settings' checkbox is enabled, any user logging into the Mobile Tech app will see the common settings grayed-out and a yellow banner stating "Settings Managed By StrataSync".



Failed Test email notification

This new feature enables email notifications for failed test results uploaded to StrataSync accounts configured for this capability. Please note that due to the nature of this functionality and applicability to potentially all technicians within a given StrataSync account, and the fact that multiple supervisor/admin users may be monitoring the same technician, it is imperative that correct email addresses be provisioned for the supervisor/admin users who select one or more technicians to monitor for failed tests. Any customer account which generates a significant % of bounced bad email address messages may be temporarily have this feature deactivated.

This feature allows technician supervisors, or any StrataSync user with the 'Edit Users' permission and associated with the same organization as the technician (or a parent organization), to monitor one or more technicians for failed tests of configured test types. To view the actual failed test results file, the supervisor would additionally need the 'View Test Data File' permission. If multiple failed test results files are uploaded by the technician in a single sync session to the StrataSync server, then these failed files are typically consolidated into a single email notification. There are three main areas of configuration:

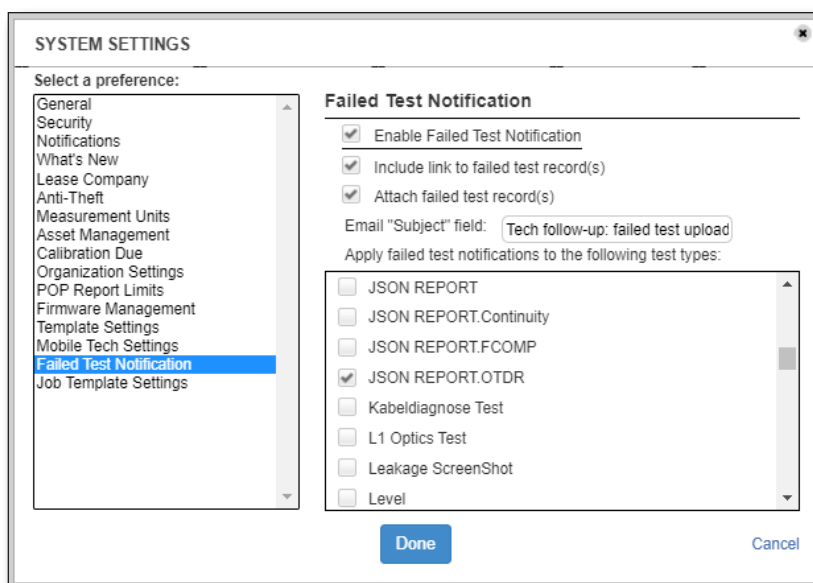
1. Configuring the overall system settings for failed test email notifications
2. Configuring the test types to trigger email notifications
3. Configuring the technicians to monitor

Configuring the overall system settings for failed test email notifications

The main controls are found under the 'Failed Test Notification' section of the System Settings menu. The 'Enable Failed Test Notification' control enables or disables this functionality for the whole StrataSync account. When enabled, failed tests matching the configured test types for monitored technicians uploaded afterwards will generate email notifications.

When disabled, all email notification for failed tests is prevented. Please note, while the functionality is disabled, StrataSync will not buffer/store failed test email notifications, so any failed tests uploaded during the disabled time period will not generate email notifications, even after the functionality is enabled.

Optionally, a link to the failed test results files on the StrataSync account and/or attaching the results files to the email notification can be configured. VIAVI recommends that including a link ensures rapid email notification without exceeding your email size limitations and clogging up your inbox with large emails. Note however,



due to the nature of many commercial email systems, it may take several minutes for the email to appear in your inbox after the failed test (or tests) was/were uploaded to StrataSync. Email attachments are useful however for users of mobile devices in the field who need a rapid assessment of the condition.

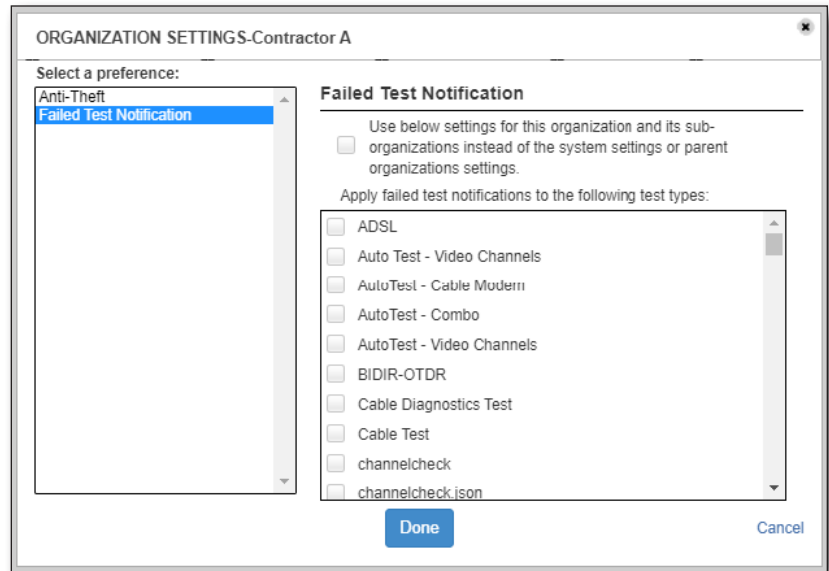
In addition, the email subject field can be configured from the default "Failed result uploaded".

Configuring the test types to trigger email notifications

In the previous screenshot, the final control in the System Settings for Failed Test Notification is to configure which test types will trigger email notifications. Depending on the VIAVI test instruments in use within your StrataSync account, there may be hundreds of test type options. Remember that for some test types, such as fiber inspection, it may be quite common to experience failed tests, so careful selection of the test type to match your business requirements is essential to prevent excessive email notifications being sent. VIAVI recommends that customers configure only principle test types (i.e. those that drive your compliance metrics) such as 'JSON.REPORT.OTDR' (but not associated fiber inspection), 'TrueSAM' and 'onechecksessionexpert.json' test types are configured for failed test email notifications.

As some customers represent large organizations which manage multiple sub-organizations managing different technician workgroups with different responsibilities and testing different technologies, the test types which trigger email notifications can be additionally configured at the organization level (see screenshot below).

In the Organizations tabs, when selecting the organization of interest, and clicking the gear/cog settings icon, there is a new 'Failed Test Notification' section which allows you to override the system settings for test types, and instead choose different test types. So, for example, one organization responsible for CATV service activation may configure 'onechecksessionexpert.json', and another organization handling fiber construction in the outside plant may configure 'JSON.REPORT.OTDR'.



Configuring the technicians to monitor

Each user who wishes to monitor one or more technicians, must log into their company's StrataSync account and have an associated user profile which includes the 'Edit Users' permission. To check this, you can click your username icon in the top-right of the StrataSync web browser window/tab and review your user role and permissions. To monitor one or more technicians for failed tests, select their associated checkbox in the People tab 'People list' and select 'Turn ON failed test notifications' from the 'Actions' button (or right-click on one of the selected user rows). Monitored users have a "Yes" in the 'Receive Failed Test Notifications?' column, so you can quickly filter on which technicians you're currently monitoring.

The screenshot displays the StrataSync 'People' tab interface. The main table lists users with columns for Login Name, First Name, Last Name, Tech ID, Role, Organization, Full Org Path, Manager Login Name, Manager First Name, Manager Last Name, Receive Failed Test Notifications?, Number of assets, and Last Login Date. The user 'tech4.demo1@jdsu.com' is selected, and a context menu is open over their row, showing the 'Turn ON failed test notifications' option. Other users listed include managers and technicians from various regions and organizations.

Login Name	First Name	Last Name	Tech ID	Role	Organization	Full Org Path	Manager Login Name	Manager First Name	Manager Last Name	Receive Failed Test Notifications?	Number of assets	Last Login Date
jdsu.demo1@jdsu.com	JDSU	Demo1	demo1	Administrator	JDSU Demo 1	JDSU Demo 1				No	216	1/11/21
eastmgr.demo1@jdsu.com	East	Manager	eastmanagerdemo1	Administrator	East Region	JDSU Demo 1 Legacy E...	EastMgr.demo1@jdsu.com	East	Manager	No	2	
southmgr.demo1@jdsu.com	South	Manager	southmanagerdemo1	Manager	JDSU Demo 1	JDSU Demo 1				No	0	2/27/15
westmgr.demo1@jdsu.com	West	Manager	westmanagerdemo1	Manager	West Region	JDSU Demo 1 Legacy W...	WestMgr.demo1@jdsu.com	West	Manager	No	0	
northmgr.demo1@jdsu.com	North	Manager	northmanagerdemo1	Manager	North Region	JDSU Demo 1 Legacy N...	jdsu.demo1@jdsu.com	JDSU	Demo1	No	0	
tech1.demo1@jdsu.com	tech1ss	demo1	t1d1	View-Only	Canada	JDSU Demo 1 Canada	patrick.noel@viasolutions.com	Patrick	Noel	No	0	10/24/14
tech2.demo1@jdsu.com	tech2	demo1	t2d1	Technician	BHN Indianapolis	JDSU Demo 1 Legacy B...	mark.ortel@demo.jdsu.com	Mark	Ortel	No	0	
tech3.demo1@jdsu.com	tech3	demo1	t3d1	Technician	Boondock Telephone Co...	JDSU Demo 1 Legacy B...	philip.kazakov@jdsu.com	Phillip	Kazakov	No	0	
tech4.demo1@jdsu.com	tech4	demo1	t4d1	Technician	West Region	JDSU Demo 1 Legacy W...	WestMgr.demo1@jdsu.com	West	Manager	Yes	3	
tech5.demo1@jdsu.com	tech5	demo1	t5d1	Technician	North Region	JDSU Demo 1 Legacy N...	jdsu.demo1@jdsu.com	JDSU	Demo1	No	2	5/27/14
tech6.demo1@jdsu.com	tech6	demo1	t6d1	Technician	East Region	JDSU Demo 1 Legacy E...	EastMgr.demo1@jdsu.com	East	Manager	No	1	
tech7.demo1@jdsu.com	tech7	demo1	t7d1	Technician	JDSU Demo 1	JDSU Demo 1				No	1	
tech8.demo1@jdsu.com	tech8	demo1	t8d1	Technician	West Region	JDSU Demo 1 Legacy W...	WestMgr.demo1@jdsu.com	West	Manager	No	1	
tech9.demo1@jdsu.com	tech9	demo1	t9d1	Technician	North Region	JDSU Demo 1 Legacy N...	jdsu.demo1@jdsu.com	JDSU	Demo1	No	1	
tech10.demo1@jdsu.com	tech10	demo1	t10d1	Manager	East Region	JDSU Demo 1 Legacy E...	EastMgr.demo1@jdsu.com	East	Manager	No	1	

People tab – Monitoring technicians failed tests

Please note:

- If you are a manager/supervisor user, and you are monitoring one or more technicians in your organization or sub-orgs, and your own user profile is being moved to another organization in the StrataSync account, you may be unsubscribed from some or all email notifications if your new organization is part of a different org hierarchy and you are not given visibility back to the orgs where the monitored technicians reside – in this case any admin user moving your user profile will be provided the appropriate warning message.
- Similarly, if an admin user moves a technician user monitored by one or more supervisors/managers to a different organization, StrataSync will review the supervisor/manager visibility to the new organization and display a warning message "Moving this user may turn off emailed notifications for subscribed users" as necessary.

As an administrator user, for any given technician user (e.g. Tech ID 't4d1' in the screenshot below), you can view which supervisor/manager users are currently subscribed to monitor that technician (i.e. they have selected to receive failed test email notifications for that technician).

In the example below, while the admin user 'jdsu.demo1@jdsu.com' is not monitoring technician 't4d1', as the 'Fail test notification configured' value is "No" under 'Access and Visibility', the admin user can see that the manager 'michaelproctor@mac.com' has subscribed to monitor this technician (under the 'Subscribed Failed Test Notification Users' value).

The screenshot displays the user profile for 'tech4 demo1' in the StrataSync system. The profile is divided into three main sections: User Information, Contact Information, and Access and Visibility.

- User Information:** Username: tech4.demo1@jdsu.com; Email: tech4.demo1@jdsu.com; First Name: tech4; Last Name: demo1; Unique ID: 1255; Employee/Tech ID: t4d1.
- Contact Information:** Mobile Phone, Office Phone, Street Address, City (Indianapolis), State (IN), Postal Code (46203), Country (USA).
- Access and Visibility:** Login Enabled: ; Visibility Organization: West Region; Organization: West Region; Manager: West Manager; Fail test notification configured: No; Subscribed Failed Test Notification Users: michaelproctor@mac.com.

User profile – Verifying failed tests notifications

Failed test email notification example

The following screenshot shows an example email notification for the JSON REPORT. OTDR test type configured in the System Settings, from a monitored technician. It contains the configured email subject "Tech follow-up:failed test uploaded", the test results file is attached and a link is also provided to the test results file on the StrataSync account.

Tech follow-up: failed test uploaded

stratasync-support@viavisolutions.com
To Michael Proctor

Retention Policy: VIAVI Default Retention (1 year) Expires: 2022-01-03

Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

miketest3_001_1550_OE.msor.json
3 KB

Tech Info

Organization Name: West Region
Full Org Path: JDSU Demo 1.Legacy.West Region
Tech Id: t4d1
First Name: tech4
Last Name: demo1
Email: tech4.demo1@jdsu.com

Failed Tests Meta-data

Work Order Id	testmjp
Filename	miketest3_001_1550_OE.msor.json
Status	Fail
Data Type	JSON REPORT.OTDR
Creation Time	2021-01-02T22:16:50Z
Sync Time	2021-01-02T21:17:50Z
URL	Test Data File
Attachment	Attached

Email Confidentiality Notice : The content of this email is confidential and intended for the recipients specified in message only. Do not reply to this message or share any part of this message with any third party.

Please note that if email attachments are enabled:

- But the user receiving the email notification does not have the 'View Test Data File' permission, there will be no attachments for the email, and additionally the note "Attachments not included because you do not have 'View Test Data File' permission. Please contact your system administrator." will be in the email body.
- But the size of the attachments exceeds 10MB, then only attachments which don't exceed this limit will be attached and subsequent files will not be attached. Instead, links to the missing test results files will be included in the 'URL' section of the Meta-data table even if the 'Include link to failed test record(s)' is not checked in System Settings. Additionally, the note "Total attachments size of 10 MB reached. Please refer to respective meta-data block for missing attachment information." will be in the email body.

OneExpert CATV configuration enhancements

Several configuration enhancements are supported to enhance template configuration of ONX CATV instruments:

- Support settings for QPSK Min Level, QPSK Max Level and QPSK Min MER to the 'Limit Plan' for ONX CATV templates.
- Support adding the Upstream ICFR Reference Bandwidth (of 1.6 MHz, 6.4 MHz or Modem Default) to the 'DOCSIS Settings' for ONX CATV templates.
- Enhancement to ensure that DOCSIS Settings Config always deploys to the same file on the meter.
- The default limits for MPEF PID video analysis have been updated.

General improvements / Bug fixes

- Email address validation for the domain part now allows 2-63 characters (previously 2-6 characters).
- The 'Help' site has been updated to include download links for the PDF User Guide and Quick Start Admin guides, and links to the last few StrataSync versions' release notes.



- A content delivery network (CDN) solution has been employed to significantly increase the number of simultaneous firmware downloads StrataSync can support for ONX CATV and DSL instrument customers – this should reduce the overall time it takes to upgrade meters used in large organizations.
- As mentioned in the 11.0 release notes, some customer accounts may have mandatory filter requirements for either the 'Sync Time' or 'Creation Time' columns of the Test Data List view – this maintains reasonable list view refresh response times for those accounts.
- As a reminder to StrataSync customers who are not currently licensed for extended data retention, the following message is displayed at the top of the Test Data List view: "Test Data records synced 35 days ago or longer, will be deleted. Please contact your VIAVI Sales Representative for more details".
- On occasion, the test results panels (e.g. 'Test Data Uploaded') in the 'Dashboard' tab did not display accurate information as the date/time format used was not consistent with that displayed in the Test Data 'List view' – this has been corrected.
- Workflow Compliance Reports for some customers did not run inclusive of selected start and end dates. This has been fixed.
- The Test Data list view 'Customize view' allowed the user to potentially display duplicate 'modifiedOn' columns which presented dates in different formats. This has been corrected to only allow one 'modifiedOn' column.
- For ONX CATV test configuration templates, the tilt band value was not preserved after saving the config file – this has been corrected.

- When the user language preference was set to Spanish, some labels were presented in German – this has been corrected.
- For test configuration templates, some users were unable to edit templates, even with the correct edit lock settings – this has been corrected.
- For the GOconnectIT Swissknife fiber workflow API, when viewing the Fiber Work Orders (or the Fiber Tasks for a specific workorder), the 'Status', 'Tests Taken', 'Total Fail' and 'Total Pass' column values may have been calculated incorrectly or were missing values – this has been corrected.



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English

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