



StrataSync 13.0

Release Notes



Notice

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Summary of StrataSync 13.0 Changes

- New features
 - Geographic redundancy for StrataSync communications
 - New Test Results metadata
 - Work order notification support for KPI/Analytics framework
 - Analytics Dashboard tabular function improvements
 - Advanced Mobile Tech settings UI
 - New StrataSync license codes
 - Asset usage statistics
- General improvements / Bug fixes
- Advanced notices
 - Upcoming functionality
 - Functional deprecation
- Known issues

New features

Geographic redundancy for StrataSync communications

This capability provides increased network access availability to the StrataSync system by diverting connections around network congestion or load balancer outage conditions. It is implemented independently for both US and EU production server environments. Customers on the US production environment using static IP addressing for StrataSync connectivity should contact their VIAVI sales representative for details and scheduling of access to this capability after the StrataSync 13.0 release.

New Test Results metadata

Test Results metadata are a subset of the reference and measurement fields contained in the test results files and are shared with StrataSync during asset syncing. StrataSync parses this metadata to display in the Test Data list view, and calculates a few additional fields itself, such as 'Sync Time'.

In StrataSync release 13.0, from compatible VIAVI test instruments, StrataSync now supports additional metadata fields as described below.

These fields are available for selection in the 'Customize view' menu for all asset types and saved as a default view, favorite view and/or shared view in the StrataSync Test Data list view.

Metadata field	Instrument / StrataSync field	StrataSync UI column name	Description
calibrationDate	Instrument/ StrataSync	Asset Calibration Date	The date the instrument was calibrated. If this is not provided in the test results sync by the instrument, StrataSync will match any stored calibration date in the associated asset record based on matching Asset Unique ID. Remember that the asset record calibration date may be manually input or even blank.
calibrationDue	StrataSync	Asset Calibration Due	If the asset calibration date is provided when the test results file is processed, StrataSync will calculate the calibration due date based on the configured calibration duration in System Settings > Calibration Due for the matching asset type.

Metadata field	Instrument / StrataSync field	StrataSync UI column name	Description
contractorId	Instrument	Contractor ID	A reference field which may be manually input by a technician using a VIAVI test instrument, or provided via a deployed workorder (job) and then copied to associated test results.
customerName	Instrument	Customer Name	A reference field which may be manually input by a technician using a VIAVI test instrument, or provided via a deployed workorder (job) and then copied to associated test results.
siteId	Instrument	Site ID	A reference field which may be manually input by a technician using a VIAVI test instrument, or provided via a deployed workorder (job) and then copied to associated test results.
testDurationMs	Instrument	Test Duration MS	A measurement field supported by certain test types representing the test/session duration in milliseconds. Please refer to VIAVI instrument guides for the specific interpretation of this field for any given test type.
testLocationsLabel	Instrument	Test Location Label	A reference field which is typically provided via a deployed workorder (job) representing the test location or ID (e.g. Fiber 1-4) for a specific test type (e.g. OTDR) and then copied to associated test results.

Workorder notification support for KPI/Analytics framework

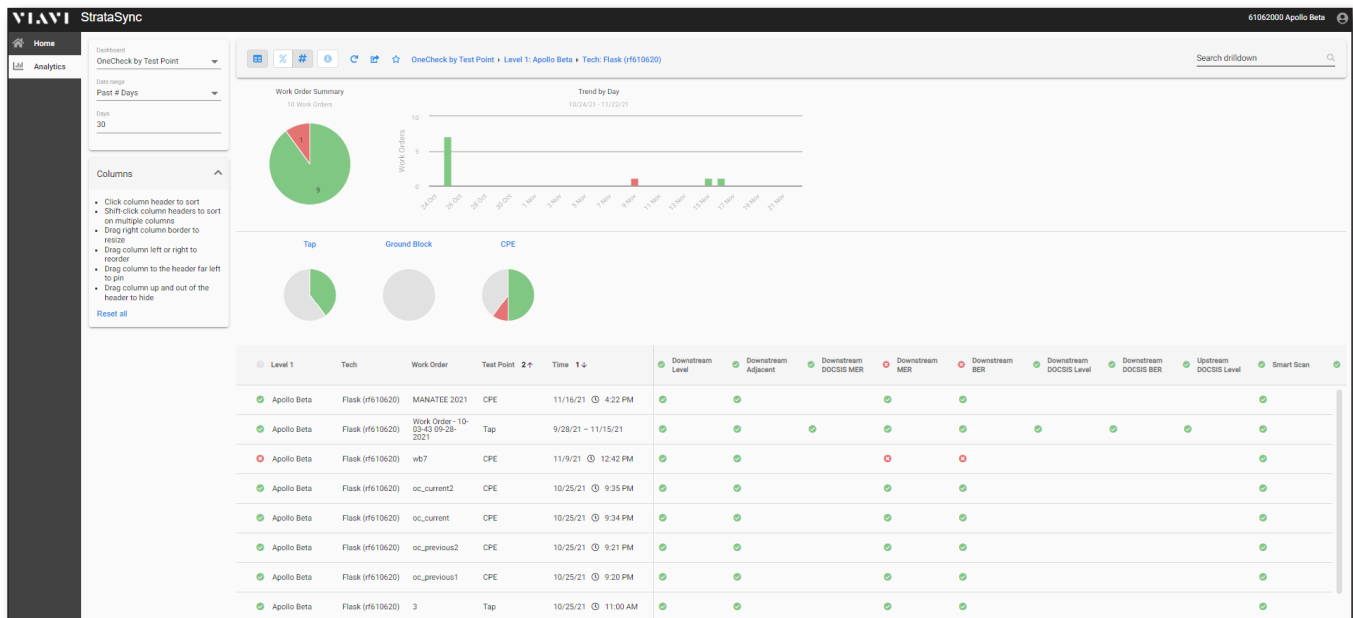
Previously, dashboards accessible via the 'Analytics' view were based solely on uploaded test results files. From StrataSync release 13.0, dashboards can now additionally process workorder events (creates, updates, deletes). This enables true workorder (job) completion progress analysis as now the KPI/Analytics framework has access to workorders as they are created and deployed, not just when workorder-associated test results are uploaded.

This feature requires customers be subscribed to the StrataSync ANALYTICS subscription plan at a minimum.

Analytics Dashboard tabular function improvements

Several improvements have been made to the tabular section of Analytics dashboard views. Multiple column sorting, column resizing, column reordering, column pinning and column hiding is now supported as described in the 'Columns' help section as shown in the screenshot below. In addition, the 'Search drilldown' control has been re-positioned to the top-right of the header view. Saving the view as a favorite (star icon in the header) will preserve all column settings applied.

This feature requires customers be subscribed to the StrataSync ANALYTICS subscription plan at a minimum.

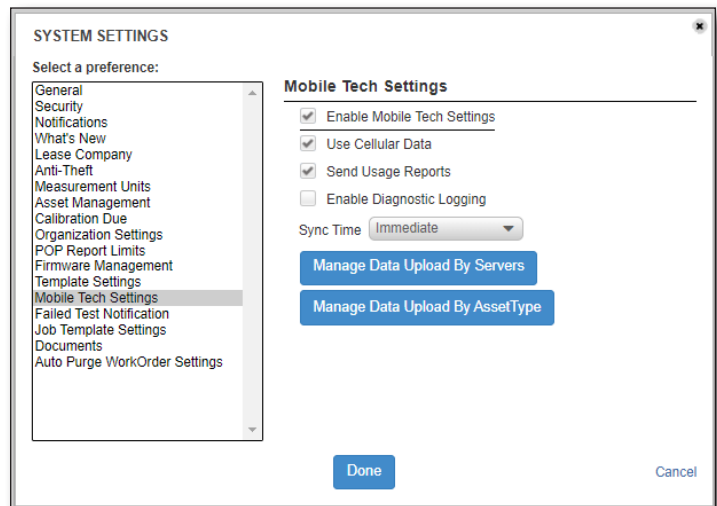


Analytics Dashboard

Advanced Mobile Tech settings UI

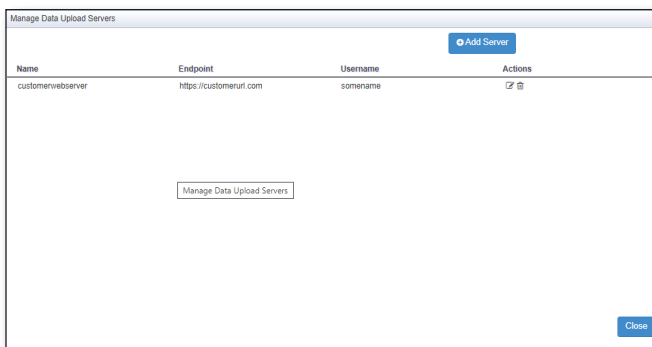
To support customer configuration of the Advanced Mobile Tech settings introduced in StrataSync release 12.5, release 13.0 now supports customer configuration of these settings in **System Settings > Mobile Tech Settings**, as well as **Organizations > Organizations List > Edit Organization Settings > Mobile Tech Settings**.

If the settings are configured under System Settings, they are applicable across the whole StrataSync account unless overridden by Organization-level settings.

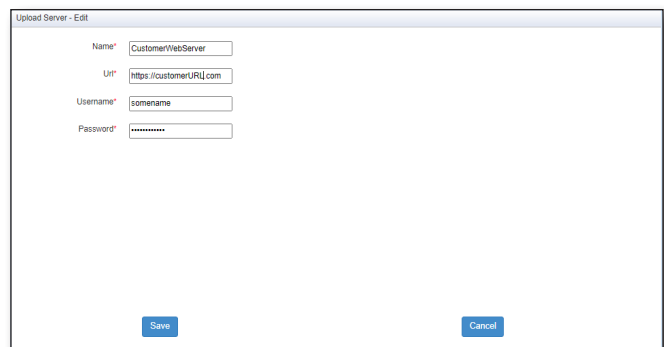


To support Mobile Tech uploading selected test results directly to a customer server, the server details must first be configured by clicking the **Manage Data Upload By Servers** button. One (or more) upload servers can be configured with a unique server name, valid URL endpoint (doesn't have to be internet-accessible if technicians can only access the server using a VPN configured on the mobile device), and a username/password combination for authenticating test results file uploads.

Once created, server configurations can be edited or deleted using the appropriate buttons in the Actions column. Please note that customer HTTP servers must support multipart/form-data encoding for the POST request body. Per-test result file, the Mobile Tech app will upload a metadata section followed by the test results file itself which is typically a VIAVI Common Data Model (CDM) JSON-formatted file.



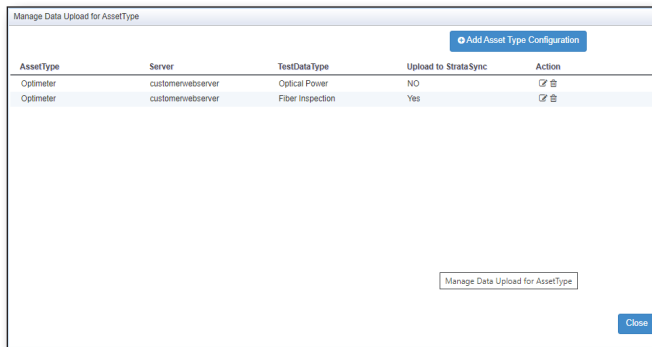
Manage Data Upload Servers



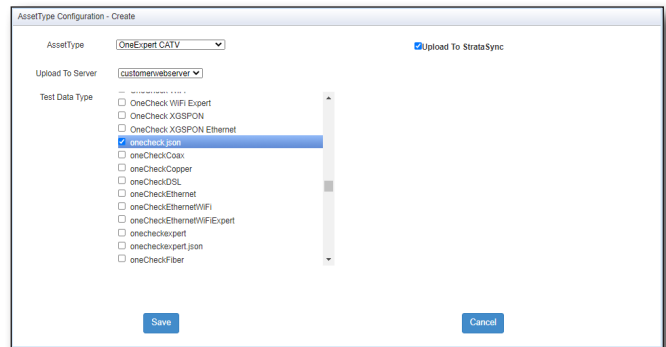
Editing Upload Server

Once an upload server has been configured, per-asset (instrument) type, you can configure one or more test types to upload using the **Manage Data Upload By AssetType** button.

Configurations can be added by selecting an asset type, the server to upload the results to, and then one or more test types to be uploaded. Additionally you can control whether these test types are uploaded to StrataSync or not. Once configurations are created, you may edit or delete them using the appropriate buttons in the Actions column.



Manage Data Upload by AssetType



Creating AssetType Configuration

All settings are encrypted at rest and are transmitted to Mobile Tech based on the authenticated Mobile Tech logged-in user over HTTPS encrypted communications. Settings are applied according to the organization associated with the logged-in user.

This feature works in conjunction with capability available in VIAVI Mobile Tech version 4.5-onwards and requires consultation with the StrataSync Operations team to enable and configure, and the SS-MT-SVRUPLD-SUPP-1YR support contract in place.

New StrataSync license codes

New StrataSync licensing was introduced earlier in CY2021 to provide a consistent scalable pricing model providing primary asset and test results management capabilities at no cost, while offering value-based additional features associated with annual subscription plans priced per-instrument.

The following table summarizes the subscription plans, subscription options and support options available. Please contact your VIAVI sales representative for more details.

Features	Subscription Plans				Support Plans		
	BASE	PRO	ANALYTICS	ENTERPRISE Workflow	Direct Test Results Server Upload	Automated App-to-App	
Typical customer	Subcontractors		Contractors Smaller Telcos/CATV providers	Prime Contractors, Tier 1 Telcos/CATV providers	Tier 1 Telcos/CATV providers		
Capability Summary	Free	Manual Workflow	+ Data Insights	+ Automated Workflow	Test Results Upload	Automated Workflow	
License codes		SS-PRO-1YR SS-PRO-2YR SS-PRO-3YR	SS-ANALYTICS-1YR SS-ANALYTICS-2YR SS-ANALYTICS-3YR	SS-ENT-WRKFLW-1YR SS-ENT-WRKFLW-2YR SS-ENT-WRKFLW-3YR	SS-MT-SVRUPLD-SUPP-1YR	SS-MT-A2AIF-SUPP-1YR	
StrataSync Tech Support	SS-SUPT-1YR available for T3 support	Standard Business Hours				Standard Business Hours	
Asset Management	Standard	Advanced				Dependent on StrataSync Subscription Plan	
Test Results Management	Standard	Advanced					
Test Data Retention	35 days	1 year <i>Extended Test Data Retention Subscription Options:</i> SS-TR2-1YR SS-TR3-1YR					
Job Management		Standard	Advanced				
Dashboards		Available default dashboards				VIAVI Mobile Tech app HTTPS test results file upload to customer web server	
APIs		<i>Test Results API Subscription Options:</i> SS-TR-API-1YR SS-TR-API-2YR SS-TR-API-3YR		Test Results & Workflow APIs	VIAVI Mobile Tech app-to-customer app interfaces for test data transfer and job deployment		
Recommended Professional Svcs		1 FAE Day	3 FAE Days	7 FAE Days	2 FAE Days	5 FAE Days	
		<i>(+ 2 FAE Days for Test Results API option)</i>					

Subscription and Support Plans, with new license codes

Existing customers who have ordered the new license codes, but had these codes mapped to legacy license codes, will have the legacy codes automatically migrated to the new codes within a few business days after the StrataSync release 13.0.

The existing 'Licenses' view now supports these new license codes, makes the 'Catalog Number' column a default displayed column, and introduces two new default columns, '# of Instruments' and 'Expiry Notification Emails'. See the screenshot below for an example.

License Type	Organizat...	Full Org Path	Expiration Date	Expiry Notification Emails	Available Data	Total Data	Data Retention	Customer PO#	Catalog Number	# of Instruments
			11/1/21 - 12							
Plus	JDSU	JDSU	02/25/2022		0 M	3,000 M	2000	sdf		
Subscription Plan	suborg	JDSU Mike_Test.suborg	10/29/2022				0	mike29oct2021	SS-PRO-1YR	100
Subscription Plan	MJP	JDSU.MJP	11/22/2022				365	96714361	SS-ANALYTICS-1YR	100
Subscription Plan	MJP	JDSU.MJP	11/25/2021	michael.proctor@viavisolutions.com			365	mikeptest456	SS-PRO-1YR	100
Subscription Option	MJP	JDSU.MJP	11/22/2022				365	37864103	SS-TR-API-1YR	100

New licensing and expiry detail in Licenses view

The new license codes additionally support expiry notification emails per-subscription plan/ subscription option/support plan license. They are configured by default so please inform your VIAVI sales representative at the time of order if you do not want to receive these notifications. Expiry notification emails are sent at:

- 3 months prior to the expiry date
- 2 months prior to the expiry date
- 1 month prior to the expiry date
- Every week thereafter until the expiry date

By default, the email used is associated to the manager of the organization which holds the license so it is important that the manager is a user profile with a valid email address.

In addition, at the time of ordering, customers can provide additional email addresses for notification purposes – it is recommended that these email addresses are email groups, not individual email addresses, e.g. "purchasing@customerdomain.com".

Any additional emails provided can be viewed in the 'Expiry Notification Emails' column. Please contact VIAVI TAC to modify these emails or to stop expiry notification emails for one or more specific licenses.

Asset usage statistics

To provide summarized test instrument (asset) usage statistics for customers wanting to understand how many unique instruments are syncing to StrataSync on a regular basis, a new 'Usage Per Unique Asset' view is available under the main 'Assets' tab in the StrataSync UI (currently a separate browser tab or window is opened for this view).

Statistics are available per-organization, per-asset type and per-month, and can additionally be exported to a comma-separated value (CSV) file for offline processing.

Statistic Group	Statistic	Description
Syncs	Total	The total number of unique asset syncs to StrataSync across all the days in this month (e.g. if 15 unique assets all sync at least once a day for every day in November the total number of syncs would be 450)
	Min	The minimum number of unique assets that have synced on any day in this month (this can be 0 if for at least one day, no assets synced)
	Max	The maximum number of unique assets that have synced on any day in this month
	Avg	The average number of unique assets that have synced on any day in this month (this can be 0 if total number of unique asset syncs for the month is less than the number of days in the month)
Jobs Downloaded	Total	The total number of unique assets that have downloaded jobs from StrataSync in this month
	Min	The minimum number of unique assets that have downloaded jobs on any day in this month
	Max	The maximum number of unique assets that have downloaded jobs on any day in this month
	Avg	The average number of unique assets that have downloaded jobs on any day in this month

Statistic Group	Statistic	Description
Test Data Uploaded	Total	The total number of unique assets that have uploaded test data to StrataSync in this month
	Min	The minimum number of unique assets that have uploaded test data on any day in this month
	Max	The maximum number of unique assets that have uploaded test data on any day in this month
	Avg	The average number of unique assets that have uploaded test data on any day in this month

Please note that the 'Jobs Downloaded' section will not record statistics for CORE/BASE customers as this functionality is only supported on new StrataSync subscription plans.

Org Path	Asset Type	Date	Syncs				Jobs Downloaded				Test Data Uploaded				
			Total	Min	Max	Avg	Total	Min	Max	Avg	Total	Min	Max	Avg	
Stage JDSU Demo1 (8)															
Stage JDSU Demo1	OneExpert DSP	11/2021	4	1	1	0	4	1	1	0	1	0	1	0	0
Stage JDSU Demo1	ONA-800	11/2021	1	1	1	0	1	1	1	0	0	0	0	0	0
Stage JDSU Demo1	T-BERD/MTS 5800	11/2021	30	1	1	1	0	0	0	0	6	0	1	0	0
Stage JDSU Demo1	T-BERD/MTS 4000 V2	11/2021	1	1	1	0	1	1	1	0	1	1	1	0	0
Stage JDSU Demo1	OneExpert CATV	11/2021	4	1	2	0	3	0	2	0	4	1	2	0	0
Stage JDSU Demo1	T-BERD/MTS 5800 V2	11/2021	3	1	1	0	3	1	1	0	0	0	0	0	0
Stage JDSU Demo1	T-BERD/MTS 5800-100G	11/2021	16	1	1	0	6	0	1	0	2	0	1	0	0
Stage JDSU Demo1	T-BERD/MTS 6000A V2	11/2021	1	1	1	0	0	0	0	0	0	0	0	0	0
> Stage JDSU Demo1 > Earl Test > East (1)															
> Stage JDSU Demo1 > Earl Test > West (1)															
> Stage JDSU Demo1 > VIAVI (1)															

Usage Per Unique Asset view statistics

General improvements / Bug fixes

Improvements

- Support for new JSON REPORT.FComp PRO, FComp PRO, JSON REPORT.Bidir II/Orl test types.
- Support for option assignment to modules, (not platforms), for appropriate firmware releases of the ONA-800 and ONA-1000 test instruments.
- The asset type-specific metadata field "Job ID" has been added to the Test Data list view 'Customize view' field list for the AVX-10K asset type only – this field is not to be confused with core StrataSync metadata fields such as Work Order ID or Workflow ID.
- The AVX-10K and CX-300 are now available as asset type filters in the 'What's New' section for both System Settings and User Preferences.
- To improve overall system performance and ensure more timely delivery of scheduled emails, the same CSV export number of rows limitations applied to the Test Data list view UI in StrataSync release 12.0 are now also applied to Saved views as used for scheduled emails and attached as a CSV file. Those limits are 80,000 rows for licensed customers (e.g. legacy SS-PLUS or the new SS-PRO licensing), and 1,000 rows for customers on the legacy CORE or new BASE configuration.

Please note that as before, if the saved view contains columns and/or cell content which results in an email attachment size greater than 10MB, the output will be truncated and a warning message inserted into the email, regardless of the number of rows matched by the saved view. In addition, any column sorts applied in the saved view are ignored for the CSV export, however customers can easily use any common spreadsheet application such as MS Excel to re-apply column sorting.

- As the majority of CATV customers have upgraded ONX CATV 6xx units supporting the JSON-formatted test results for the **onecheck** and **onechecksessionexpert** test types, customers can request VIAVI (via TAC) to configure StrataSync to stop processing the ZIP versions of those results file types. The request can typically be completed within 5 business days and is a one-time configuration, so all users of the system must have migrated their business processes to only using the JSON-formatted files.

While the ONX CATV instrument may still upload both ZIP and JSON versions of the test results files, this configuration when applied will prevent StrataSync from storing and processing the ZIP files, bringing improvements in UI Test Data list view performance.

- As CATV customers can now request for StrataSync to ignore the ZIP-formatted onecheck/onechecksessionexpert test results files, the StrataSync workorder compliance rules have been updated to process the JSON-formatted versions as a backup, if no ZIP results files are processed.

This applies only to CATV workflow but ensures that both existing and new environments are supported for this functionality. Please note this only applies to customers licensed for CATV workorder integration ('Reports' license based on the SS-WRK-FLW-CMP-1YR or the new SS-ENT-WRKFLW-nYR subscription plan).

- Bulk data editing/deletion as a result of organization name changes, deleting organizations, user moves to another organization with test data, or updating user details may result in data deletion/updates taking several hours after the change is applied to fully complete.

In the past these operations could adversely impact system performance related to test results operations, however the changes in this release mitigate performance impacts due to bulk test data editing/deletion operations.

- Multiple ONX CATV configuration updates including a new WiFi Profile editor, a new Limit Plan configurator, OC Fiber Scope/OTDR/Power Meter test type configurations, OFDM limits by frequency and cloning for new WiFi and Fiber configurations.

Bug fixes

- Updates to StrataSync release 12.5 introduced an issue with jobs deployed via StrataSync to VIAVI Mobile Tech-connected instruments such as the NSC-100, whereby jobs would not show as 'DEPLOYED' in the StrataSync 'Other Work Orders' list view – this was corrected early in September.
- Administrative users would receive an 'Unexpected Application Error' pop-up message when trying to move technician users between organizations if they were configured for Failed Test Email Notification and the subscriber (manager) user had been deleted – this has now been corrected.
- StrataSync previously allowed importing Job Templates with a plus ("+") character in the name, and could deploy these templates to instruments, but would respond with an error when trying to create a new workorder referencing that template using the Generic Workflow JSON API.

Now, templates cannot be imported with invalid characters in the template name (allowed characters are alphanumeric, space, underscore, hyphen, dot, and hash).

Advanced notices

Upcoming functionality

- Legacy StrataSync CORE and new BASE customers have 35 days test results data retention, and legacy PLUS or any new subscription plan provides a year (with options for longer periods). However, test results deletion beyond the data retention period has historically been performed manually, with some customers enjoying much longer retention than the licensing allows.

As has been notified in the 'What's New' section in the StrataSync UI in August this year, automatic test results deletion according to licensed data retention will be activated at some point after the StrataSync release 13.0.

Functional deprecation

- As a result of the Workorder notification support for KPI/Analytics framework capability, the 'Reports' view in the StrataSync UI containing workorder compliance reports is scheduled for deprecation in the StrataSync release 15.0 November 2022.

Any customers using the 'Reports' view compliance reports will automatically be provided the functionally-equivalent analytics dashboards.

- The legacy XML Test Data API is scheduled for deprecation in the StrataSync release 15.0 November 2022. This is required from a technology support perspective and to adhere to evolving security standards and best practices.

Customers can contact their VIAVI sales representative to discuss transitioning to the functionally equivalent Test Results JSON API.

- TLS 1.0/1.1 support for instrument client connections is scheduled for deprecation in the StrataSync release 14.0 May 2022.

Known issues

- For jobs created using the Job Manager web UI (jobmanager.stratasync.viavisolutions.com) and deployed via StrataSync and Mobile Tech to a test instrument such as the NSC-100, when job-associated test results are synced back from the instrument via Mobile Tech to StrataSync, and StrataSync determines the job to be 'COMPLETED', the workorder could be removed from Mobile Tech's Job Manager view within seconds.

Some technicians wanted the workorder to remain in the Job Manager view for a period of time (e.g. until the end of the calendar day) as a visual confirmation of jobs completed. A workaround is to configure the 'Sync Time' in Mobile Tech Settings to a value other than "Immediate", e.g. "8 hours". For complete control over this behavior the 'Sync Time' can be set to "Manual", however the technician must remember to manually sync test results appropriately.



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