

eFLOW 5.2 SP2

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Service Pack 2 provides the latest updates to eFLOW 5.2. This service pack contains bug fixes.

Note: These Release Notes contain only the most important information about the service pack contents; it may happen that some of the fixed issues do not appear here.

eFLOW 5.2 Service Pack 2 requires eFLOW 5.2 Service Pack 1. If you are using a version prior to 5.2 SP1, you must first uninstall the eFLOW platform and then install eFLOW 5.2 SP2.

The SP2 installation provides an upgrade to the eFLOW platform; OCR engines are not included.

Installation Instructions

The service pack can be downloaded from the TIS FTP site.

We recommend using the Installation Launcher to perform all the necessary upgrades.

Before performing the upgrade

- Backup all eFLOW databases.
- Backup the existing collections data.
- Backup your eFLOW applications.
- Stop the Autorun Station Starter service

Note: There can be an issue updating the Microsoft Visual C++ 2005 Redistributable if Windows Updates are not fully up to date. Please ensure all updates are fully applied, or perform the installation of the Redistributable manually prior to performing the installation.

Perform the upgrade

Important: eFLOW 5.2 SP2 is not supported with SQL2008. If you are using SQL2008 you should upgrade the database engine prior to performing the upgrade to a version of SQL2012 or above.

1. Install eFLOW 5.2 SP2.

eFLOW 5.2 SP2 is distributed as a full MSI installation package. It will either install eFLOW on clean machines or perform the upgrade on machines where eFLOW 5.2 SP1 is already installed.

Take care to check all of the installation parameters and ensure they match your current configuration.

Use the same installation procedure for the clean installation and the upgrade. See the *Installation Procedure* topic in the *eFLOW Implementation Guide* for details.

2. Update the SQL databases.

All eFLOW databases will be upgraded automatically.

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3. Upgrade the eFLOW Web Stations.

The upgrade uninstalls the old version and installs the new one.

If the corresponding eFLOW web station was not previously installed on the current machine, the latest version will be installed.

The following web stations installations will be updated:

- Web Validate
- Web Front Office
- Web Scan

Resolved Issues

Core

Issue no.	Summary	Detailed information
30365 30787	Temporary folders not deleted from AppData > Temp folder.	After opening certain modules in Launch Pro, folders remained in the AppData >Temp folder.
30735	MS SQL lookup table definitions saved only after closing Design.	When the user defined a lookup table, saved the changes, then opened the lookup table definition again, the changes had not been saved. After closing and reopening Design, the changes were saved.
31095	SimpleAuto station crashes after a collection is split.	<p>A SimpleAuto station crashed with the message <i>An item with the same key has already been added</i> after a collection was split.</p> <p>The error occurred when merging a collection that had the same form more than once, resulting in multiple groups with the same name.</p>
31488	Priority assignment using custom code fails.	When using custom code to change the priority of a collection to High, the assignment failed and the priority remained as Low.

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Issue no.	Summary	Detailed information
31289	Read Ahead not applied when collections moved back to station.	When the Read Ahead property was set in the station configuration, it was applied correctly the first time collections entered the station. However, if collections were later moved back to that station using the Control module, the Read Ahead property was no longer applied, and only the first collection was locked.
32102	TMP files accumulate in the %TEMP% folder.	When the Force Split property was set in a SimpleAuto station, .TMP files accumulated in the %TEMP% folder.
29462	Support for different time zones on the SQL server and eFLOW server.	Previously, different time zones on the SQL server and the eFLOW server could cause problems when actions were initiated on client machines (for example, a station crashing when opened). eFLOW now supports different time zones on the servers.
29870	Collection priority reset when a collection moves to next station.	The collection priority incorrectly changed from High to Normal when a prioritized collection moved to the next station.
30166	Collections that were cut into chunks are corrupted.	An error in the mechanism that divides large collections into chunks based on the Huge Collection Threshold parameter caused those collections to become corrupted.
28558	Temporary folders not deleted from WorkDir folder.	Temporary folders were not deleted from the WorkDir folder after a station shut down.
30365	CAB files not deleted from AppData > Temp folder.	The CAB file's temporary folder was not deleted from the AppData > Temp folder after installing a new application.
31488	Duplicate collections assigned validation status Unknown.	Fields of duplicate collections were assigned the validation status Unknown instead of the same status as the original fields. As a result, duplicate collections that should have had the status Invalid did not move to the Validate station.
32352	Excessive bandwidth usage with SLAs.	Measures were taken to reduce the required bandwidth when using Supervise station SLAs.

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Issue no.	Summary	Detailed information
31713	Wrong severity value in log when an Autorun station fails to start.	When an autorun station failed to start, the severity level of the log entry was set to Info instead of Error.

STS Management

Issue no.	Summary	Detailed information
29598	Save button disabled after removing a user from the list.	STS Management did not fire internal events if the user was removed or added.
29617	Not all groups displayed in user interface.	If there were more than 100 groups in Active Directory, the user interface did not display all those groups.
29716	Forward slash instead of backslash between domain name and user name.	There was a potential security issue when using the new <i>Add active directory object</i> option, because the new user or group had a forward slash instead of a backslash between the domain name and the user or group name.

Control

Issue no.	Summary	Detailed information
30197	Control module cannot be opened by user with full privileges.	After defining a role with full privileges for the Control module, Control could still not be opened.
29625	Not possible to prioritize collections with remote SQL server.	It was not possible to manually prioritize collections when working with a remote SQL machine and a dynamic SQL environment.
29135	Debug Events and Disable Events disabled.	These menu items are now available.

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Issue no.	Summary	Detailed information
29733	Not possible to import dynamic data file.	Under certain circumstances, it was not possible to import a dynamic data file, and errors messages were displayed in the log file.
30900	Not possible to export a specific collection.	When right-clicking on a collection, the menu item Export to Archive was not available in the context menu.
30658	Prioritized collections not displayed in the Collections list.	When there were more than 1000 collections in a station and the user prioritized a collection, that collection was no longer displayed, even if the list was sorted by priority.

Collect

Issue no.	Summary	Detailed information
30832	Images no longer available after closing and reopening Collect.	If the user closed the Collect station after clicking the Start button, and the images had not yet been transferred to the next station, on opening the station again, the images were no longer available. The image files are now saved to a temporary folder.
29578 31934	Possible to add a collection with the same name, resulting in duplicate collections.	When the Keep Batch Name property was set to True, users could add a collection with the same name as an existing collection. Appropriate warning messages are now issued to users to prevent potential loss of collections and images.

Scan

Issue no.	Summary	Detailed information
29927	Scan fails to produce images when configured for color and B&W images.	When configured to produce both color and black & white images, the Scan station continued to run after the batch was processed. No JPG images were created, and the Send All button was disabled.

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Issue no.	Summary	Detailed information
30478	Barcode separation fails when the scanner is set to Multistream.	When the scanner was configured to perform Multistream scanning, after the first barcode, the scanner continued to scan, but no new images were displayed in the Scan station. After scanning finished, the Send All button was disabled.
30714	Scan station stops processing after scanning a few pages.	After scanning a few pages, the scanner continued to scan, but no new images were displayed in the Scan station. After scanning finished, the Send All button was disabled.

Analyze Recognition

Issue no.	Summary	Detailed information
29398	Type filter in fields list not working correctly.	The Fields list can be filtered to show matched, rejected, false-positive, or all fields. This filter did not display the correct results for the Match, Reject, and False-Positive filter options.

Recognize

Issue no.	Summary	Detailed information
30492	Error message when using the MediaDrive engine.	When using the MediaDrive engine, the error message <i>ExperVision is not installed, or its path could not be located</i> was displayed.
29480	Error message after merging collections.	The error message <i>Object reference is not set on an instance of an object</i> was displayed in the Recognize station if the collections had previously been merged.
28547 30439	Collections move to Reject queue and number of forms doubles.	After recognition, collections were moved to the Reject queue and the number of forms in those collections was twice the number of forms they originally had.

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Issue no.	Summary	Detailed information
29215	Error message <i>CSM connection failed</i> .	When the voting method was set to Equalizer in the virtual engine configuration, the error message <i>CSM connection failed</i> was displayed on running Recognize, even though the collection was processed.
29216	Subsequent fields not recognized after OCR field engine error.	If one of the OCR field engines issued an error when processing a field, recognition failed for all remaining fields and collections as well.
29040	OCR engines randomly stop producing results.	Occasionally, the OCR engines configured for the application stopped returning results, but the Recognize station continued to operate.
29404	A2IA OCR engine returns results without blank spaces.	The A2IA OCR engine was configured to detect blank spaces, but did not return these in the results.
29465	IRIS OCR engine returns Hebrew words in the wrong order.	When the IRIS OCR engine was used to recognize Hebrew sentences, if the text contained special characters, the returned word order was incorrect.
29547	Recognize returns an error if the workflow includes activities that use Image Viewer.	An error occurred if the recognition workflow included activities that used the Image Viewer. The required assembly redirection entry was added to the efProcessShell.exe configuration file.
29914	Rotated page not saved correctly.	When the Recognize station saved a rotated TIF, that TIF was no longer rotated in a subsequent Recognize station.
30228	Recognition fails after OCRFieldServer timeout error.	If an OCRFieldServer timeout error occurred, recognition failed for all subsequent fields.
30398	<i>Unhandled exception</i> error when running multiples instances as Autorun stations.	When multiples instances of Recognize were run as Autorun stations, after a time, the stations crashed and returned the error message <i>The process was terminated due to an unhandled exception</i> .

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Issue no.	Summary	Detailed information
30899	<i>System.IndexOutOfRangeException</i> error.	The Recognize station crashed and returned the error message <i>System.IndexOutOfRangeException: Index was outside the bounds of the array</i> . Further errors were reported in the log.
30998	Recognize crashes due to missing fields or groups in a collection.	Recognize crashed if fields or field groups were missing in a collection.
30188	OCR engine does not recognize Croatian special characters.	
30667	Media Drive engine does not separate words.	As Media Drive does not support word segmentation, segmentation for this engine was implemented inside eFLOW.
30355 30568	<i>Unrecognized error 109</i> error.	The Recognize station sometimes returned the error message <i>efProcessShell.exe There was an error reading from the pipe: Unrecognized error 109</i> .
31400	Field recognition fails with Media Drive engine.	Field recognition with the Media Drive engine failed with the error message <i>FieldOcrServiceRunner.exe, CIPMain::CreateEngine() engine index 21 creation failed</i> .
29746	OMR fields not recognized.	Recognize did not return any results for OMR fields.
29548	FieldOcrServiceRunner stops working.	Under certain circumstances, when running the Recognize station, the FieldOcrServiceRunner crashed.
29548	<i>FieldOcrServiceRunner</i> error with Kadmos engine.	The Kadmos OCR engine returned the error <i>ERROR Source App: FieldOcrServiceRunner.exe, CKadmosEngine::RecognizeField() - failed in rel_init()</i> .
30352	Mixed full page OCR with ABBYY and IRIS returns different results.	When a combination of the ABBYY and IRIS engines was used for full page OCR, each engine returned different results for the same image or collection.

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Issue no.	Summary	Detailed information
29504	Temporary files not deleted after station shutdown.	When the Recognize station was running as an Autorun station, the .TMP files created by the station were not deleted after the station was shut down.
28219	<i>efProcessShell.exe</i> error.	The Recognize station returned the error message <i>efProcessShell.exe, Message: System.IndexOutOfRangeException</i> and collections were sent to the Reject queue.

Organize

Issue no.	Summary	Detailed information
29916	Invalid forms/pages not displayed.	If ShowInvalidOnlyAtStart was set to True in the station configuration, Organize did not display any forms or pages in the collection tree, even if the collection contained invalid forms.
30718	Changes to the collection structure are lost when the collection moves to the Recognize station.	When changes were made to the collection structure in the Organize station (such as merging forms), the Recognize station ignored the changes and used the original structure of the collection.
31833	OnIdle event is not fired.	The OnIdle event could not be used in custom code. No Event Handler was defined, so the event was not fired.
31351	Pages manually assigned to an EFI are not recognized.	When an EFI was manually assigned to a page in the Organize station, the corresponding form type was not assigned in the Recognize station.
31939	Error when clicking Refresh button.	The error message <i>Object reference not set to instance of an object</i> was displayed when the Refresh button was clicked. The error occurred when the Refresh button was enabled, but its icon was not visible.

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Issue no.	Summary	Detailed information
30337	<i>NullReferenceException</i> error when splitting collections via code.	When using custom code in the Organize station to split collections, the station crashed with the error message <i>System.NullReferenceException: Object reference not set to an instance of an object.</i>
30337	Split collections routed to Reject queue.	Under certain circumstances, collections that were split in the Organize station were routed to the Reject queue.

Validate

Issue no.	Summary	Detailed information
29721	Image viewer displays wrong image.	When navigating fields in the Validate station, the image viewer sometimes displayed an image that did belong to the currently displayed fields.
29749	Validate crashes when getting split collections.	When collections had been split in the Organize station, the Validate station crashed when opening those collections.
29802	<i>Invalid argument</i> error when navigating fields.	When navigating fields with the TAB key, the Validate station crashed with the error message <i>Invalid argument</i> .
30336	Validate does not start after upgrading CAB file from eFLOW 4.5.	After upgrading an application's CAB file from eFLOW 4.5 to eFLOW 5.2.1, an error occurred and it was not possible to start the Validate station.
30555	Mouse click required to edit first field.	After opening the Validate station, users had to first click with the mouse on the Validate desktop before they were able to edit data in a field. It is now possible to input data without clicking.
30620	Wrong color displayed for fields with exceptions.	The field colors defined for exceptions in the Design module were not applied to the fields in the Validate station; default values were used instead.

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Issue no.	Summary	Detailed information
30928	Validate crashes after using forms navigation and scrolling with the mouse.	When the user opened and closed the Forms navigation window, selected a field, and then used the mouse to scroll, the Validate station crashed.
30669	Validate stops automatically getting collections.	After the user processed a few collections, the Validate station stopped automatically getting the next collections, even though the AutoGetPut option was set to True in the station configuration.
30662	Image no longer displayed after navigating between fields.	When the user navigated between invalid fields, after a certain point, the image was no longer displayed in the image viewer.
30621	Default table layout not displayed correctly.	When using the default table layout, some parts of the layout, such as the header row or cell borders, were not displayed.
29592	Validate crashes after selecting value from lookup table.	The Validate station crashed with an error after the user selected a value from a lookup table and then used the TAB key to move to the next field.
29898	Layout changes not applied on client machines.	After making changes to a Validate station layout, those changes were not applied on client machines, but were applied on the server.
30260	Incorrect display of validation messages.	Validation functions were not correctly fired, with the result that when the user navigated to the second field of the collection, messages for all other fields in all collections were displayed, instead of only the messages relevant to that field.
30317	OnPostGetCollections event gets the same collection twice.	When custom code was implemented for the OnPostGetCollections event, the same collection appeared twice in the Validate station.

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Issue no.	Summary	Detailed information
29807	Lookup shortcut key does not work when Forms navigation is enabled.	After opening the Validate station, it was not possible to use the shortcut key (CTRL+L) in the first field to open the lookup table if Forms Navigation was enabled in the station configuration. The user had to click in another field, and then the lookup opened.
30531	Last character in field cannot be deleted.	If a date mask was applied to a field, it was not possible to delete the entire field contents; the last character remained in the field.
30526	Validate crashes after discarding and getting a collection.	If the user discarded a collection and then tried to get the same collection, the Validate station crashed.
30418	Wrong layout displayed.	The Validate station sometimes displayed a layout that was not assigned to the station scenario.
30645	Table lookup does not open.	The lookup table did not open when the user pressed the shortcut key F9 in a table field.
31083	Thumbnails in Forms Navigation do not respond after merging forms.	After merging forms in the Forms Navigation window, the thumbnails no longer responded to user actions, such as selecting the thumbnail, which should change the image. The buttons for resizing and rotating were also disabled.
31630	Issues with default layout.	There were problems with the display of the default layout. For example, input fields were not displayed unless the user increased the window size, and table column headers displayed the field name instead of the caption.

Web Validate / Web Scan / Web Front Office

Issue no.	Summary	Detailed information
29526	Web Validate hangs and does not load collections.	If the DataContext value of the image viewer was not set in the Design module, the viewer failed to load. This caused Web Validate to hang and collections were not loaded.

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Issue no.	Summary	Detailed information
29670	OnPreGetCollections and OnPostGetCollections events not fired in the Web Front Office station.	
30046	Navigation in table fields not working properly in Web Validate.	Using the TAB key in tables moved the cursor to the web browser controls instead of the table fields.
31068	All user tags deleted after adding new user tag and putting collection in Web Validate.	When a new user tag was added to the customer.cshtml file, after moving to a new form in Web Validate and putting the collection, all users tags were removed from the CSM view.
32026	Image missing in Web Validate when using GetSpecificCollectionsEx instead of ServerGetAllCollectionsData.	When calling the GetSpecificCollectionsEx method in the CollectionCommmand.js file, the PRV files were not downloaded to the client data folder.
29670	Image not displayed in Web Front Office image viewer.	When getting a collection in Web Front Office, an error was returned and the image was not displayed in the image viewer.
30385	Not possible to move to next form with TAB and ENTER keys in Web Validate.	Pressing TAB or ENTER in the last field of a form did not display the next form; the user had to click the Next Screen button.
30461	Web Validate does not work when custom code is used to add user tags.	If custom code was used in CollectionService.cs to add user tags to Web Validate, the station layout was not displayed and it was not possible to get the collection.
30445	Validation not possible in Web Front Office after removing and adding pages.	When the user added or removed pages in the collection organizer, it was not possible to return to Validate view. Errors appeared in the log and the collection was removed from the application workflow.

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Issue no.	Summary	Detailed information
31068	Error when setting Form level user tag.	After updating a Form level user tag in the Customer.cshtml file, the error message <i>Item has already been added</i> was displayed.
32418	Web Validate crashes when more than 10 users are logged in.	

Tile

Issue no.	Summary	Detailed information
29883	Image viewer does not update when using the keyboard to move to a different tile.	When the user used the keyboard arrow keys to select a different tile, the image viewer did not update to display the image for that tile.
30306	Tile does not display recognized OMR fields.	The problem occurred because it was not possible to enable Tile for OMR fields in Design.
31457	Tile does not display a message when there are no fields for the collection.	The message <i>The current collection doesn't contain any tile supported fields</i> is now displayed.
30748	Collection cannot be put if it has no Tile supported fields.	The message <i>Can't put empty work data</i> was displayed when the user tried to put a collection that did not contain any Tile supported fields.

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Deliver / Deliver2ERP

Issue no.	Summary	Detailed information
29358	Shared memory segment error.	<p>The error message <i>A problem occurred while creating the shared memory segment</i> was displayed.</p> <p>Instead of the shared MemoryMappedFile object, the station now uses the IsolatedStorageFile object.</p> <p>Note: The internal station logic was changed, so it is necessary to reconfigure the stations manually. It is not possible to copy directly the values from the old configuration to the new XML configuration file.</p>
29972	Green light indicator takes a long time to change to yellow.	The green light indicator (station is running) took an exceptionally long time to change to yellow (station is idle) after closing Deliver2ERP.
29383	Database exporter does not work if application is exported to another machine.	If a Deliver/Deliver2ERP station database exporter was defined for an application, and the application was exported and installed on another machine, it was not possible to use the exporter on that machine, even if the SQL connection string was changed accordingly.
29383	Database exporter shows fields of all forms instead of fields of selected forms.	When defining an SQL database exporter, all fields of all forms were displayed instead of only the fields of the selected forms.
30412	Deliver2ERP crashes when configuring SAP External Destination.	Deliver2ERP crashed when configuring an SAP External destination due to an error in the ERPEXportSetup.xml file.

Launch / Launch Pro

Issue no.	Summary	Detailed information
30389	Stations displayed in random order in Launch	In Launch Pro, the order of the stations in the Stations list corresponds to their order in the application workflow. The stations are now displayed in Launch in the same order as in Launch Pro.

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Design Flow

Issue no.	Summary	Detailed information
31354	Developer Stations license is not cleared after closing Design Flow.	When the Design Flow station was closed, the Develop Stations count in the Administrative License Management dialog did not decrease accordingly.

Additional hot fixes

The following hot fixes have been released by TIS, however, they are not included in SP2. If you have already deployed these hot fixes on your system, they should be re-deployed after installing SP2.

Issue no.	Description
33091	Administrative: When there are a lot of Autorun stations (tested with 50+), the module is very slow and unresponsive.
32149	Validate: The first table field is not populated with data after getting the collection; the user must first enter the field.
32866	WebValidate: Validation of collections does not work.
32567	CR: Improve the image quality for the PRV image.
33490	CR: Add a property to the Validate configuration that will enable control of the image viewer catching time.
31578	Organize: Setting or unsetting attachments in the Organize station has no influence on Recognition.