

Electronic Field Study Release Notes

Version 2.7, Revision 20

EFS Version 2.7, Production Release 1, Revision 20 includes the following changes.

Bugs fixed

The following bugs have been fixed.

Defect Number	Description
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EFS-453	With this release of EFS, customers who upgrade to the latest SQLServer client software will no longer see the following error message when they try to connect to their SDE data: <i>"SDE Connection was attempted with an older version of SQL Server client communications software that is not compatible with the SQL Server database server."</i>
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Version 2.7, Revision 19

EFS Version 2.7, Production Release 1, Revision 19 includes the following changes.

New and changed features

Support for auto-labeling of multipoint shapefiles

EFS now supports the auto-labeling of multipoint shapefile objects.

Note: To use multipoint shapefiles with the auto-label feature, users must clear the **Remove duplicate labels** checkbox on the Auto label property page of the GIS Annotation Layer dialog.

Startup window display improvements

The display of the Startup window has been improved in these ways:

- Users can now turn off the display of the window on startup. (This is done from the System Setup dialog.)
- If not turned off, the Startup window is displayed in the center of the EFS main window.

Message alerts user when DEM file does not load

EFS only supports DEM files that are in the UTM coordinate system. A message now appears indicating this when a user attempts to load a DEM file that is not in UTM.

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Improved expiration message

Expiration messages have been improved to more clearly state the reason for the expiration (such as an expiring license or expiring software).

Bugs fixed

The following bugs have been fixed.

Defect Number	Description
EFS-451	Labels on Orthogonal images sometimes print incorrectly.
EFS-450	Cannot connect to two or more SDE servers at a time.
EFS-448	The "Save Image As" feature does not work correctly when connected to a PAR image warehouse accessed as a local file via the Image Tool Properties. Users must use the feature twice to create a PSI or PMI file. (The problem does not occur with traditional non-PAR imagery or with imagery accessed via NIW.)
EFS-447	The "Create Warehouse from Workspace" feature does not work correctly when connected to a PAR image warehouse accessed as a local file via the Image Tool Properties. PAR images are not included in the new warehouse. (The problem does not occur with traditional non-PAR imagery or with imagery accessed via NIW.)
EFS-445	Displaying image properties for PAR images causes EFS to stop working.
EFS-443	When using the Query Tool and querying on a parcel, the balloon is very large.
EFS-440	The appearance of text annotations when printed does not match their appearance on-screen on Windows 7 systems.
EFS-434	Searching by address against databases that have an entire street address in one field causes the search to fail if extra display fields are added.
EFS-433	Deleting an SDE connection from the SDE list/registry can result in a corrupted SDE list in the registry.
EFS-432	Holding down SHIFT or CTRL key while querying can select the same object more than once.
EFS-422	Auto-labels sometimes display trailing zeros.
EFS-418	Some GIS line data is missing from print output when printing oblique images with Print Image or Print window.
EFS-417	When right-clicking an image and selecting Query Layer , the first layer listed in the sub-menu is disabled.
EFS-416	Query results are left-aligned instead of centered (as in previous versions).

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Defect Number Description

EFS-415	When adding an entire directory of data to a workspace, ECW and Tiff files are not shown in the list of raw images that can be selected.
EFS-414	The Icon Annotation tool sometimes does not appear in the Tools menu.
EFS-410	If Auto-label is enabled, a layer's auto-labels do not scale correctly when printing.
EFS-405	On Windows 7 systems, the EFS workspace file (.pwf) is not associated with EFS without user intervention to manually set up the association.

Version 2.7, Revision 18

EFS Version 2.7, Production Release 1, Revision 18 includes the following changes.

Bugs fixed

The following bug has been fixed.

Defect Number Description

EFS-402	When viewing polygon layers on a north-up image, certain zoom levels sometimes cause the polygon fill to appear on the outside of the polygon instead of on the inside.
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Version 2.7, Revision 17

EFS Version 2.7, Production Release 1, Revision 17 includes the following changes and enhancements.

New and changed features

Support for Generation 4 SID

EFS can now support Generation 4 SID image files.

Option to view Orthos after searching

An option has been added to Image Tool properties to allow users to view Ortho images by default after searching. The option is off by default in EFS. To set this option, select **Tools**⇒**Image Tool properties**⇒**Search and Sort**⇒**Sort Image Thumbnails by** and select the **View Orthos First** checkbox.

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Improved Auto-labeling

Auto labeling has been improved to allow users greater control over auto labeling on a per-layer basis. Two new checkboxes on the Shape Annotation Auto Label dialog allow users to turn collision detection on or off and to remove duplicate labels for an individual layer.

Reload directory of data

Users can now reload the last directory of data they previously added by selecting **Workspace**⇒**Add Entire Directory of Data**⇒**Reload Directory of Data**. A toolbar button is also available for this option. (Select **Tools**⇒**Customize**⇒**Command** tab⇒**Workspace**.)

Note: This option is only available after a directory has been added.

Bugs fixed

The following bugs have been fixed.

Defect Number	Description
EFS-169	Querying an object that displays 50 characters or more (including spaces and Custom field 'new lines') displays excessive white space in balloon mode and causes the balloon to 'wrap' excessive blank space within the balloon.
EFS-271	The EFS COM interface fails to compile or build properly when using Windows 7 64 Bit and when using Visual Studio 2010 on XP.
EFS-276	The Updater does not use honor preferences set by the user.
EFS-288	When viewing a SID image, manually entering a Zoom Percent of less than 10 does not update the locations for the GIS data and crosshair. (This problem does not occur when using the + or – zoom buttons.)
EFS-292	Keyboard shortcuts are not available after uninstalling and re-installing EFS.
EFS-293	On Windows 7, 64-bit systems, PDX batch files are getting saved to c:\Program Files (x86)\Pictometry\EFS2.7 instead of to the location specified by the user. If a user doesn't have read/write access to this folder, they are unable to save their PDX files.
EFS-294	Icons used in Windows 7 workspaces do not render for XP users.
EFS-295	In the last release of EFS, the coordinate system format ("Edit --> Change Units") was incorrectly set to a default precision of '2'. This has now been reverted back to a value of 6 (the previous default). as, when dealing with coordinate systems, a precision of just two decimal points will result in a large margin of spatial error.

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Defect Number	Description
EFS-303	Some images in ECW format do not display correctly in either the Image or Navigation windows. The images appear all black.
EFS-353	Layers are not rendering correctly when a user is printing or viewing a print preview of an Oblique image.
EFS-358	Auto-labeling doesn't work with multi-point shapefiles.
EFS-360	Cannot open the URL for a website associated with an image via the Link Tool. Instead, the message "The specified file was not found" appears.

Version 2.7, Revision 16

EFS Version 2.7, Production Release 1, Revision 16 includes the following changes and enhancements.

New and changed features

Improved file formats

With the release of Electronic Field Study (EFS) Version 2.7 Revision 16, Pictometry has changed the internal file format for .PMI and .PSI images. This change supports future EFS enhancements and new features, including the ability to use larger images in EFS. The file format change will be transparent to users.

Shortly after we started shipping Revision 15, we discovered that when exporting, users could unintentionally create images in the new format, making them incompatible with older versions of EFS. (Revision 15 defaults to writing the files in the new format, which requires Revision 15 or later to read them.)

To ensure a smooth upgrade experience for customers, we enhanced the export functionality of EFS Revision 16 to honor the file format of the original source image, thereby eliminating the potential for incompatible file formats. When EFS Revision 16 is used to save images (by creating sub-warehouses, exporting imagery, etc.), it creates the files in the same format as the source input files. (If the source images were legacy Pictometry images, then the saved files will also be in the legacy file format.)

We recommend that customers who have deployed Revision 15 now deploy Revision 16. While the potential for file format incompatibility with Revision 15 is very low, we recommend upgrading for complete legacy support.

Erase Tool

The Erase Tool (erases temporary annotations) has been added to the following toolbar configurations: Image View, Image View Markup, Power User, and Version 2.6 defaults.

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New option to set up search profiles for (non-address) GIS data

The Navigation menu has a new option —“GIS Search Setup”— that makes it easy for users to set up a search profile that will search against any two alpha-numeric fields in their GIS database.

This new option *does not* replace the “Address Search Setup” option. Users now have two options for setting up search profiles: 1) Address Search — to search for a parcel by street number and name, and 2) GIS Search — to search against any two GIS fields.

PAR imagery

Customers who use Self-Hosted POL can now use their PAR library with EFS and Change Analysis. Simply set up the Image Tool to point to your PAR imagery. This eliminates the need for self hosting customers to store two libraries.

Ability to provide feedback

A feedback mechanism has been added to CA so users can submit feedback about Electronic Field Study. To provide feedback, users should click **Feedback** (in the Menu Bar) and complete the feedback form. This form should be used when users do not need a response or technical support. If users need technical support, they should follow the normal customer support process so that we can handle your questions or problems as quickly as possible.

Bugs fixed

The following bugs have been fixed.

Defect Number	Description
EFS-108	EFS quits unexpectedly when trying to change the color of a Query bubble or text.
EFS-129	The COM interface quits EFS unexpectedly when it disconnects.
EFS-145	When exporting an image from EFS the copyright notice does not appear on exports and extracts but does appear when printing.
EFS-165	The icons in the Workspace Toolbar are too small in relation to the button size.
EFS-172	Support for UTM projections is not available.
EFS-179	When converting DBF files and creating custom fields the resultant DBF file can be corrupted, depending on the data being combined in the custom field. Corruption occurs with combined data fields are larger than what can be held in that field. Combined data lengths are now checked to prevent this from occurring.

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EFS-204	Selecting certain projected coordinate display formats causes EFS to quit unexpectedly.
EFS-206	The coordinate system display format is not being saved to the registry.
EFS-207	"Save Image As" saves an invalid image file.
EFS-209	Clicking the PentaView icon while PentaView is running and then clicking the PentaView tab causes EFS to quit unexpectedly.
EFS-270	Exporting an image with the Extract Tool causes some annotations to be repeated or cut off on the extracted image.

Revision 14

EFS Version 2.7, Production Release 1, Revision 14 includes the following changes and enhancements.

New and changed features

Compatible with Windows 7 and Vista

EFS 2.7.1.14 is now compatible with computers running Windows 7 and Vista operating systems.

More current and extensive help information available

The complete *Electronic Field Study User Guide* is now available when users click Help. This comprehensive guide provides more current information and replaces the former Help system.

Direct Connect supported

EFS 2.7.1.14 now contains the DLL files necessary to support the establishment of a direct connection to ArcSDE versions 9.3 and greater.

SDE Connections

SDE connection information in workspaces and searches prompted some users to establish an SDE connection, even though one already existed. This has been changed so that workspaces and searches recognize if the required SDE resource is present, and utilize it appropriately.

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Bugs fixed

Mr SID crashing EFS

The problem that Windows 7 users had with EFS crashing when a Mr SID file was closed has been fixed.

The following additional bugs have been fixed.

Defect Number	Description
EFS-13	'Add non-warehouse images to workspace' option has been removed from the Image tool properties dialog box as it is no longer needed.
EFS-28	When using the DBF converter on existing destination files, a permissions problem prevented the conversion from running to completion. The DBF converter now works regardless of the permissions of the files it is converting.
EFS-32	The Distance Tool now measures correctly when a users switches to a different tool and then switches back to the Distance Tool.
EFS-33	EFS crashed when an image was selected in the Workspace after a user did the following: Added all images hits to a workspace, saved the hits to a warehouse, and changed all images in the workspace to point to the new warehouse. This has been fixed.
EFS-36	EFS no longer shows trailing zeroes for numeric GIS data that contains extra zeroes. This affects only numeric data that is displayed after querying or searching.
EFS-39	The labels on the dynamic form for exporting were sometimes truncated.
EFS-63	Defaults were not being set for "Suppress copyright notice" for users who had this option in their license. For users who do not have this option in their license, the copyright should appear on printed or exported images. This was not happening.
EFS-69	Customers who used read-only workspaces experienced problems when attempting to change the SDE connection. This has been fixed by changing the types of parameters saved.
EFS-81	When using the Query Tool with the Workspace closed, users can now use the Page Up and Page Down keys to toggle between and select a layer to query.
EFS-86	Image Tool Properties were not being saved.
EFS-105	The 2.6 COM interface behavior was changed in a previous release, causing EFS to quit unexpectedly when certain COM client applications terminated. The 2.6 COM interface behavior has been restored to its original behavior.

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EFS-127	<p>The X & Y locations displayed on the Grid Properties dialog were not being updated properly and appeared to the user as un-editable.</p> <p>This has been fixed so the X & Y locations are updated, whether changed directly by the user on the Grid Properties dialog or changed when the user drags the grid to a new location.</p>
EFS-128	<p>If the Query Tool is active when a user searches by address, the address query result is displayed at the location of the mouse pointer (or at the edge of the image if the mouse pointer is positioned on another monitor) instead of at the location of the street address. This has been fixed.</p>
EFS-131	<p>Text displayed as a result of using the Query Tool now wraps to multiple lines after 50 chars.</p>
EFS-138	<p>Address search parameters only store the display name of the SDE connection, which causes problems for some users. This has been changed so that all SDE connection parameters are stored.</p>
EFS-144	<p>A "pbt" batch file (used to update a PDX file when its associated shapefiles have changed) can now be saved anywhere on a user's hard drive. Previously, the file was always saved in the Desktop folder regardless of the path a user chose to save it in (the path shown on the PDX Batch Edit/Create tab).</p>

Revision 13

EFS Version 2.7, Production Release 1, Revision 13 includes the following changes and enhancements.

New Thumbnail Window feature

There is now a horizontal scroll bar available in the thumbnail window to allow user to see each thumbnail in its entirety.

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Defects corrected

The following defects have been fixed.

Defect Number	Description
EFS-38	The formula to calculate the pitch of the rood was using 'atan' instead of 'tan', so for larger angles the pitch would be incorrect, this has been fixed.
EFS-37	Layer would wait for input when loading a workspace. This is no longer an issue when loading a workspace. Now when a layer need attention, a "SurpressViewDrawing" flag is set preventing the image from redrawing until the flag is unset
EFS-29	Line properties will now stay set to desired property, set by user
EFS-27	Context menu now displays "copy" instead of "copy to paste buffer", no change has been made to how copy performs
EFS-26	GIS annotation tab, moved the source page to first in the tab order. The order in which they appear can still be controlled by the context of use by the user
EFS-25	In the Shapefile tab, the PDX page has been removed from the GIS layer properties, this is no longer used
EFS-24	PDX Edit/Create dialog box, moved the bottom of the window to the top so the fields are filled in first and then top of the screen moved to the bottom as that is usually the final part you complete
EFS-15	There is no limit for the available characters to display in the output window of the 'query execute' fields for GIS layers
EFS-12	When working with workspaces that use SDE feature class layers, the user is asked if they would like this connection to be applied to the rest of GIS layers that are using SDE so that the user does not have to individually connect each layer
EFS-3	Any tools that are not available when working with ECW's, are now grayed out and not available for user to select
2075	Exporting an image with printer settings correlates to the world file and can be exported and used for measurements
2074	Exporting large imagers that crop because of limitation of computer, now have the correct data, so they do not shift up and to the right any longer
2072	GIS annotations turned off when using Query tool
2071	GIS folders have been upgraded so that the auto label and display field will now save full name of the column
2070	Cartlab3 conversions from WGS84 to Gauss-Boaga converting correctly

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Defect Number	Description
2069	All field column and name data is checked for 10 char limit when exporting
2068	Prefilled comment for exporting tool data has been fixed
2067	Fixed England setup that was causing address search function to crash EFS
2066	Added a directory of MrSID images that only ask for the first image's coordinate system instead of each image's coordinate system
2065	Comment field option fixed
2064	Split entry option stays at the bottom of the drop down option after all searches
2060	Automatically load the bounds of the images of all GIS annotations when an image is brought to front so user does not query the local data every time they go back out to their base map. This issue happened when layers were turned off
2041	Export of images with reprojection now works

Revision 12

EFS Version 2.7, Production Release 1, Revision 12 includes the following changes and enhancements.

New Output Bar enhancements

Individual objects can now be deleted. This feature is useful for readying a list for export.

Objects can be measured by using the Area or Distance Tool and selecting an object.

Objects can be geo-located by using the Location tool and selecting an object.

The ability to export the objects in the output bar has been added. This includes - Query, GIS and Address Search output bars. Exporting objects is similar to exporting the tool data. Also, the exported data can be automatically added to the workspace. If the output bar contains objects of multiple shape types, separate files/tables will be created for each shape type.

Using the Image tool and selecting an object will bring up an image at the object's location.

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SDE upgrades

EFS can now use and connect to multiple SDE servers. To include Multi-SDE connections into Pictometry Configuration Files (PCF Files), a new version of Configuration Editor V2.0 will be required to capture the new SDE settings.

EFS now uses SDE SDK 9.3.

Shape objects can now be queried when not visible

Shape objects can now be queried when not visible (due to scaling) when in the non-auto layer select mode - if in the auto layer select mode, only layers that are visible (due to scaling) can be queried. This will prevent the accidental overloading of data collection.

EFS now supports ECW files and TIFF 16/48 bit

EFS can now read Ortho images in ECW format and TIFF 16/48 bit format.

PDX Batch Processing

EFS now supports a way to generate batch files to run PDX indexing on Shape and DBF files. It has been a tedious task to generate PDX indexing on changing Shape/DBF files. Now all the user has to do is generate the PDX batch file and run it anytime a file it contains has changed. There are also useful modifiers that can be applied to further speed up the process of PDX indexing numerous files.

The new PDX indexing dialogs are found in the Shape/DBF Maintenance dialog that is accessed via the Annotation menu.

There are two new pages – PDX Batch Run and PDX Batch Edit/Create. The PDX Batch Run dialog is used to actually run the PDX batch file while the PDX Batch Edit/Create dialog is used to edit an existing PDX batch file or create a new PDX batch file.

Below are explanations of both new dialogs.

PDX Batch Run

Dialog will run PDX batch files.

Batch File – filename of the PDX batch file to run. PDX batch files have the extension “pbt”.

Browse – allows the user to search for a PDX batch file to run. Only displays files with the extension “pbt”.

File/Status window

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This window contains all of the items in the PDX batch. Items may include Shape files, DBF files and coordinate systems. In the case of Shape and DBF files the filename is displayed in the first section of the item line followed by the field name that is being indexed. For a Shape file the field will always contain the word SHAPE.

If a coordinate system is contained within a PDX batch file to full coordinate system will appear in the first section of the item line.

The status portion of the item line will reflect the status of the item while it is being PDX indexed. The status will normally move through these states – Loading..., Processing..., Saving..., Completed. These status states allow the user to monitor the progress of the PDX indexing.

Modifiers

Process DBF files – When checked the DBF files in the batch will be processed. Checked by default.

Process Shape files – When checked the Shape files in the batch will be processed. Checked by default.

Step – Allows the user to step thru the processing of the files. The user can choose to process the file or skip it.

Run – This will start the process of PDX indexing using the selected Modifiers.

PDX Batch Edit/Create

This dialog allows the user to edit existing PDX batch files or create new PDX batch files.

Load PDX batch file for editing – Loads an existing PDX batch file for editing. When loaded the items will appear in the PDX file/field window.

Save PDX batch file – Saves the items in the PDX file/field window to a PDX batch file.

PDX file/field window – This window contains all of the items in the PDX batch. Items may include Shape files, DBF files and coordinate systems. In the case of Shape and DBF files the filename is displayed in the first section of the item line followed by the field name that will be indexed. For a Shape file the field will always contain the word SHAPE.

Delete Item – Deletes the selected item from the PDX file/field window.

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Clear all Items – Clears all of the items in the PDX file/field window

Add new item – Adds to the PDX file/field window the item configured in the “New Item” section. When adding a DBF file the DBF filename and the field selected in “DBF Field” are added to the batch list. If adding a Shape file the coordinate system in the section “Set Coordinate System...” is added to the batch list followed by the Shape file name.

IMPORTANT: it is very important the correct coordinate system has been set when adding a Shape file item to the PDX file/field window. Failure to set the correct coordinate system will result in a useless PDX indexed Shape file. Even though the coordinate system is added each time a Shape file is added if all Shape files are in the same coordinate system then it will only have to be set once.

New Item – Contains the setup information for an item to be placed in the PDX file/field window.

Shape or DBF File – Name of the Shape or DBF file to be loaded into the PDX file/field window. Using the “...” button to the right will allow the user to browse to the file.

Set Coordinate System – Sets the coordinate system of the shape file.

DBF Field – Drop down menu containing all of the fields in the DBF file.

New options for connecting to your SDE database

Anytime you use GIS data from an SDE database, you must be connected to the database. Because some users have multiple SDE databases on different servers that they must connect to simultaneously, EFS now supports multiple SDE connections.

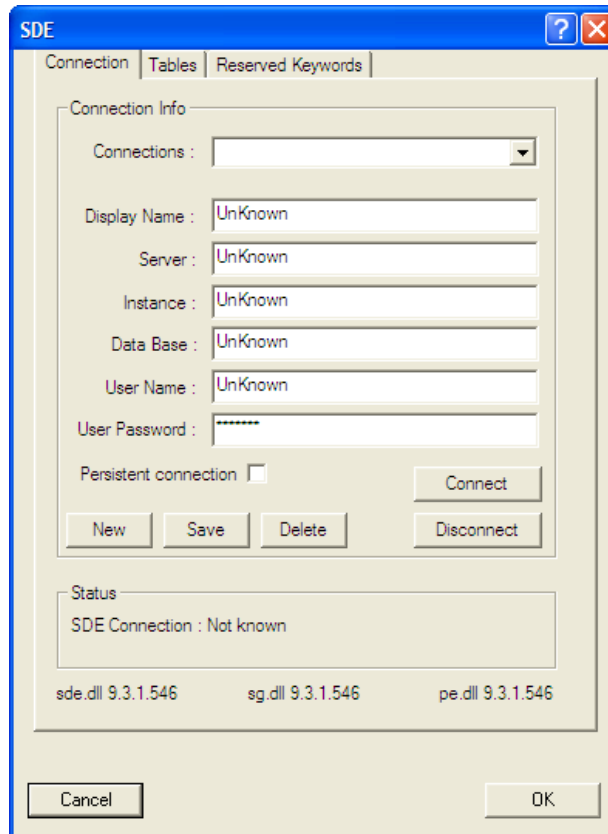
To make multiple connections easy to manage, EFS lets you create profiles that store your connection parameters. You'll create one profile for each SDE database that you need to routinely connect to. So instead of entering connection parameters when you're ready to connect, you'll simply select the profile for the database you need to connect to.

Note: You'll need to select a profile whenever you need to access an SDE database (for example, when adding a GIS layer or when exporting measurement data).

u To create an SDE connection profile:

1. Choose **Annotate**⇒**SDE Connection**. The SDE dialog opens to its Connection tab.

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2. Click **New**. (The Connections box becomes dim because you are creating a profile rather than selecting one.)
3. Enter the Connection Info (Display Name, Server, Instance, Data Base, User Name, User Password).

Note: After you create profiles, their Display Names appear in the Connections list. When you're ready to connect, you'll select a profile from this list.

4. Click **Save**. The profile is saved and is listed in the Connections box.
5. Click **OK**. The SDE dialog closes.

u To connect to your SDE database:

1. Choose **Annotate** ⇒ **SDE Connection**. The SDE dialog opens to its Connection tab.

If there is no active connection, the Status area shows "SDE Connection: Not known" Proceed to Step 2.

*Otherwise (you are already connected to an SDE database). If you want to connect to a different SDE database, proceed to Step 2, otherwise click **Cancel**, and skip the rest of this procedure.*

Note: If you previously created connection profiles, their names appear in the Connections list.

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2. From the Connections list, select the profile for the SDE database you wish to connect to.
3. *(Optional)* If you want EFS to connect and disconnect to SDE as needed, and *only for the duration of the task* needing the connection, make sure that **Persistent connection** is *unchecked*.

Hint: Keep this option checked to optimally manage your available ArcSDE connections.

If you want the connection to remain throughout each EFS session, (eliminating unnecessary extra wait times for multiple connections and disconnections), *check Persistent connection*.

4. Click **Connect**.
The Status area shows "SDE Connection: Connected."
5. Click **OK**. The SDE dialog closes.

Added table record field/column to Annotation Layer Dialog

When the user selects a table/file to load as the source for an Annotation Layer the source's record template (field/column) layout is displayed.

Defects corrected

The following defects have been fixed.

Defect Number	Description
1917	Deleted the "PGS" layer portion. This is no longer used. .
1916	'Zoom to specific percentage' feature did not work.
1915	With the new Output Bar Objects, the "Object Highlight" on the "Search GIS Objects Properties" page is no longer needed – it has been removed from the "Search GIS Objects" dialog.
1914	Importing sector maps from a DBF (by right-clicking on sector map) resulted in a "read has failed" error message.
1911	When changing the style on a GIS layer from the properties dialog window it did not save.
1910	When in offset ground plane mode, the context menu displayed "Turn off offset Ground Plane <P>" when it should have been "Turn off offset Ground Plane <G>".
1909	When using the Address search profile setup and the user was using SDE as a source, the name of the table was not being correctly filled into the Data Object.
1908	Added the ability to disallow the deletion of SDE tables - permissions are set in the registry, however it defaults to allow.

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Defect Number	Description
1907	Composite objects were not being displayed properly in the Output bar.
1906	Copyright was being suppressed when using the extract tool. It now copies the copyright.
1904	EFS would crash when using "Add entire Directory of Data".
1903	All tools now display their textual data in the Tool Output Bar.
1902	Orthos are now exported with the correct world file.

Revision 11

EFS Version 2.7, Production Release 1, Revision 11 includes the following changes and enhancements.

Mosaic Tool can now be used to "submit" output bar objects

The Mosaic Tool can now be used to "submit" output bar objects in the exact same way the Distance, Area and Location Tools can. The user can also right-click on an output bar object (bringing up a context menu) and execute a "GoTo object name" which would be the same as submitting the object to the Mosaic Tool. To use this option, just select the Distance, Area, Location or Mosaic Tool and select an object in the output bar.

New Output Bar context menu options

The output bar context menu now has a "Highlight all objects" option that will draw all objects contained in the output bar.

Managing the ability to delete SDE tables

The ability for the user to delete SDE tables can now be turned off via the registry. This has to be done via the Configuration Editor and cannot be configured within EFS.

Query Tool highlighting feature added

A Query Tool drag will now automatically highlight all of the objects it collects.

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Defects corrected

The following defects have been fixed.

Defect Number	Description
1825	Composite output bar objects were not being displayed properly when expanded.
1824	Closing workspaces caused EFS to crash if the output bar contained objects and the user tried using the objects after the workspace was closed. The output bar is now cleared of objects when the workspace is closed.
1823	Query Tool drag area option now creates a box that follows the cursor.
1822	Creating an Address profile and using an SDE table for the source caused errors.

Revision 10

EFS Version 2.7, Production Release 1, Revision 10 includes the following changes and enhancements.

New SWEREF99 zones

Added additional zones to SWEREF99.

Query output directed to output bar

All query (GIS search, Query Tool, Address Search) output is directed to the output bar into their respective tabs. Query data in the output bar is persistent and is active even if the originating tool is switched out.

Expandable tree feature for queried data

If queried data is made up of other data items then the data will appear as an expandable tree. Example – user using the Query Tool clicks on a centerline and that centerline is set to be highlighted. The data that makes up the entire center line is displayed as the output data.

Tools can measure query data

The following tools can now measure query data – Distance, Area, Query, Location.

Query data in the output bar can be submitted to tool input

Query data in the output bar can be submitted to tool input. Example – a query was done on parcels and in the output bar there is a list of parcel data. The user can use the Area Tool and click on a parcel item in the output bar and obtain a measurement.

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Another Example – users using the Query Tool clicks on a centerline. The data that makes up the entire center line is displayed as the output data. The user can use the Distance Tool to measure the entire centerline or the segments that make up the centerline.

Goto feature added for queried data

All queried data can be right-clicked on and a goto function can be performed.

“Drag” mode for Query Tool

The Query Tool can now be used in “drag” mode – meaning an area can be dragged out.


Executable command option for Query Tool

The Query Tool can execute another program by holding down the “e” key during a select on an object. The field to use for the execution is set up in the GIS layer in the “GIS Object Query Display/Execute” tab.

Address search output views

In the System setup the user can select if the output from the Address Search outputs to the “classic” view in addition to the output bar. By default the “classic” view is enabled.

Clearing of temporary annotations

If the user holds down the "delete" key while pressing the screen refresh, it will clear out the temporary annotations. In addition there is also a new tool button  for this feature. To access the tool button, go to the Tools menu→Customize→Commands→View.

Defects corrected

The following defects have been fixed.

Defect Number	Description
1736	If a user added or deleted custom SDE fields outside of EFS, the field order was sometimes jumbled. Custom SDE fields are now stored using the field name instead of column indexes thus SDE column order is not affected.
1730	SDE – now supports views.

Electronic Field Study Release Notes

Defect Number Description

1729	SDE query data is now “bound” to the query stream – this should result in slightly quicker response. Only SDE tables of type “Layer” (they have a spatial column) are displayed to the user. The SDE interface is now table generic in that the table and all of its information are passed into the SDE interface for every command. This also should result in a quicker response in that a table “tune” will only have to be done once for each table used.
1728	Changes have been made to support SDE running on top of spatially enabled databases. Our SDE interface will detect the type of table and access the table depending on the table layout.
1702	Using the output window in Full-screen mode would take focus away from the full-screen toolbar. If the output bar was used during Full-screen none of the tool buttons would be able to be used.
1700	EFS now supports MrSid MG3 composite images.
1699	Set the default precision to 2 decimal places.
1691	GIS Feature layers – now can be added without the matching DBF file. No data queries can be done on this layer. No warnings will be posted about the missing DBF file.
1690	Grayscale MrSid images did not load correctly - the color map was incorrect and the width lines were offset.

Revision 9

EFS Version 2.7, Production Release 1, Revision 9 includes the following changes and enhancements.

Added more coordinate systems

Added the following coordinate systems:

Transverse Mercator
EUREF FIN TM35FIN
Portuguese Coordinate Systems
SWEREF99 - Sweden
DHDN Soldner Berlin

Defects corrected

The following defects have been fixed.

Defect Number Description



Electronic Field Study Release Notes

Defect Number Description

1683	EFS did not run on the Windows 2000 operating system.
1672	If the user highlighted an address search profile and selected the "delete" button, the "ok" button was disabled. This prevented the user from saving changes.
1668	If the user selected the "restore down" button (between the minimize & close buttons) the EFS window was minimized. The only way to restore the application was to right click on the EFS taskbar button and select maximize.
1546	MrSIDs did not work with GIS overlays.

Revision 8

EFS Version 2.7, Production Release 1, Revision 8 includes the following changes and enhancements.

Defects corrected

The following defects have been fixed.

Defect Number Description

1670	EFS security code no longer checks the Master License expiration date in an end-user license.
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Revision 7

EFS Version 2.7, Production Release 1, Revision 7 includes the following changes and enhancements.

Additional Properties Dialog Box Added

EFS now includes a new Properties dialog box when creating a new Address Search Profile.

Electronic Field Study Release Notes

Defects corrected

The following defects have been fixed.

Defect Number	Description
1659	When prompted to select a sde table for a new address search profile the application returned "Table does not exist".
1658	An unnecessary dialog box opened prior to the browse dialog box when adding an address search profile.
1657	NIW was not 'loading' found images, neither automatically or manually.
1355	Added support within EFS for extended desktops

Revision 6

EFS Version 2.7, Production Release 1, Revision 6 includes the following changes and enhancements.

The Pitched Area Tool

EFS includes a new tool—the Pitched Area Tool. You can use this tool to measure the area of a pitched roof in an Oblique image.

Note: If you are working with pixilated images (due to increased magnifications), it may be hard to determine exactly where to begin and end your measurements. Also, if you can't see the ground because buildings are very close together, you may need to guess where to begin measuring. In these circumstances, your results may not be as accurate as desired; use this tool to *estimate* the roof's area.

u To measure the area of a pitched roof:

1. Choose **Tools⇒Pitched Area Tool**.
2. Measure the height from the ground to the eave by clicking at the ground, dragging to the eave, then releasing the mouse button.

Electronic Field Study Release Notes

Hint: If you make a mistake when measuring, press **ESC** on your keyboard and begin again with Step 2.



3. Measure the height from the ground to the peak, by clicking at the ground, dragging to the peak, then releasing the mouse button.



4. Measure the distance of the ridgeline by clicking where you last released the mouse, dragging along the ridgeline to the opposite end of the roof, then releasing the mouse button.

Electronic Field Study Release Notes



The area outline and measurement are shown on image (depending on your tool settings).

The Tool Info tab shows the resulting measurements and calculations including Peak Height, Eave Height, Roof Angle (in degrees), Roof Pitch (in 12^{ths}), and Roof Area.



New option to choose measurement and coordinate precision

EFS now lets you specify the precision of the measurements it takes and of the coordinates it works with. When you choose **Edit⇒Change Units**, you can specify the number of decimal places to be used for each type of measurement (distance, area, angle) and for coordinates.

Electronic Field Study Release Notes

Added additional support for MrSID images

EFS now supports generation 3 MrSID images. Added ability to recognize MrSID images in the warehouse.

Added support for foreign character sets

Address profile search now supports foreign character sets.

Defects corrected

The following defects have been fixed.

Defect Number	Description
1606	Users were unable to successfully export a 'sector map' element from the workspace into a shape file.
1601	Text style (balloon, normal) setting is now saved in registry.
1598	The default behavior of the mouse wheel has been updated to zoom in and out for all tools.
1585	Print preview status notes were all shifted to the left.
1583	The address search did not work properly when checking "sort address results as text" in system setup dialog. The search results were returned but nothing happened when the user selected a property.
1582	Printing with Autolabel on sometimes created problems with the status labels like scale, date/time, etc. It changed the background to Opaque.
1581	Exporting tool location data for some tools reported inapplicable information. For the area and distance tools, exporting the start/stop location data in textual form (dbf or sde) was unnecessary.
1580	Export Tool data to workspace halted when reentering properties dialog.

Revision 5

EFS Version 2.7, Production Release 1, Revision 5 includes the following changes and enhancements.

New option for exporting data

EFS can now automatically create a GIS annotation layer in your workspace from the tool measurement data you export. There is a new checkbox—“**Add to workspace**”—on the Export Data tab of the tool's Properties dialog box.

Electronic Field Study Release Notes

If you are exporting measurement data to a shapefile or to an SDE database, and you check this option when you set up the export, EFS adds a GIS annotation layer to the active workspace for the data you exported. The workspace layer is named the same as the file or database you exported. (The file extension is not used.)

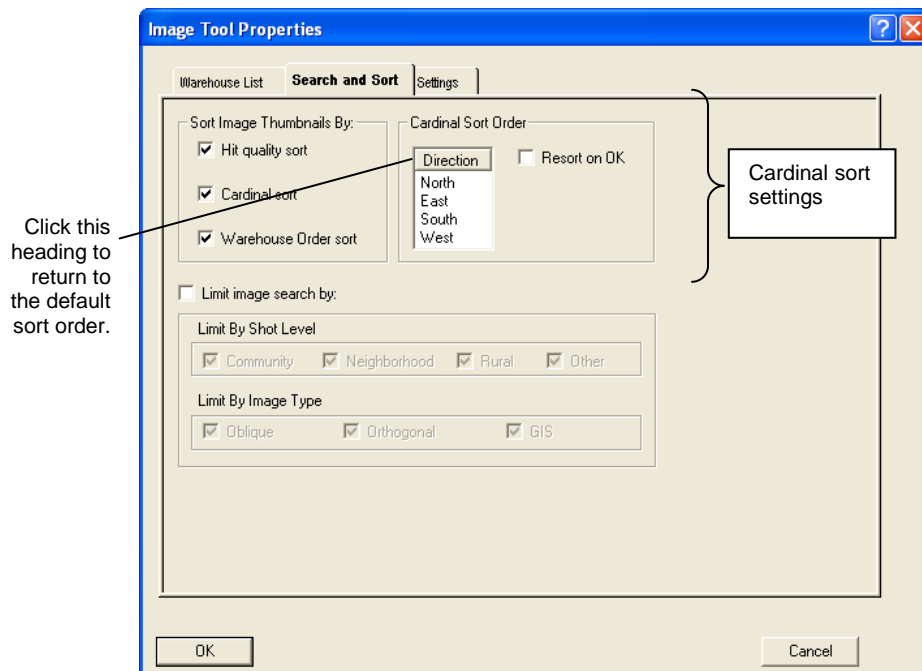
The Cardinal Sort Order setting

EFS now lets you customize the Cardinal sort's sort order. Without changing this setting, the Cardinal sort lists search hits in this default order: north-up, east-up, south-up, west-up. Use the following procedure to change this sort order.

u To change the Cardinal Sort Order:

1. Click the **Image Tool**.
2. Choose **Tools**⇒**Properties**⇒**Search and Sort** tab.

The Image Tool Properties dialog box opens. The Direction column shows the current sort order.



3. To re-order the list of compass directions, drag each word (North, East, South, West) to the desired place in the list.

Tip: To return to the default sort order (North, East, South, West), click the column heading labeled "Direction."

4. If you want *existing* search hits to be re-sorted as you exit the dialog box, check **Resort on OK**.

Note: Leave this box *unchecked* if you want the new sort order to take effect beginning with the *next* image search.

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5. Click **OK**.

Your new Cardinal sort order is saved, and EFS uses it for all subsequent image searches (as long as the Cardinal sort remains on). If you checked **Resort on OK**, existing thumbnails are re-ordered according to your new sort order.

Defects corrected

The following defects have been fixed.

Defect Number	Description
1561	Unable to query on split parcels using query tool.
1560	Balloon annotations did not scale properly.
1558	The "all segments" method was being applied to polygon shape object searches regardless of the method the user selected.
1554	The GIS annotation layer data property, "Draw on images", did not work properly.
1551	Pentaview did not handle the crosshair on ortho psi file images properly.
1549, 1537	Print image and print window did not show balloon text annotations. Printing text-annotations shown as balloons failed. The text (and balloon) did not print.
1545	Geo-coded address search placed the crosshair on end of segment regardless of the number.
1542	When using the distance tool with "walk the earth" and "transparent background" enabled, the distance measurement overwrote itself. Also when measuring a line with the area tool, measurement values were placed at each end of the line.
1541	Generating a shape PDX for small shapefiles caused the GIS layer to disappear.
1530	In the COM interface, setting the Location property of an existing annotation did not move the annotation to the new location.
1522	Added to COM interface the ability to access the "label icon" attribute for icon annotations.

Revision 4

EFS Version 2.7, Production Release 1, Revision 4 includes the following changes and enhancements.



Electronic Field Study Release Notes

Added custom Italian coordinate systems

Add custom cartlab3 Italian coordinate systems:

Roma 40
ED 40
Cassini Soldner
Bessel
UTM WGS84
UTM ED50
Gauss-Boaga

A "Properties" button has been added to the GeoSystem dialog. This "Properties" button is sensitive to the choice of "Coordinate Group". Pressing the "Properties" button will bring up a dialog allowing the user to set parameters for the converter being used for the currently selected "Coordinate Group".

Great care must be used when setting the converter parameters as the changes may adversely affect the performance and accuracy of the converter.

Defects corrected

The following defects have been fixed.

Defect Number	Description
1534	Shape PDX files were not generated correctly.
1525	When selecting cancel from the "Select SDE table" dialog the user received a "SDE Error: Layer not found (-20)" error.
1524	ArcSDE view only users were unable to display any tables other than GDB_ tables from the "Select SDE table" dialog.

Revision 3

EFS Version 2.7, Production Release 1, Revision 3 includes the following changes and enhancements.

New Tool Properties for Text, Icon and Link annotations

Tool properties for text, icon and link annotations have been added. The only default for the tool is the local/global setting. The remaining options can be set through the layer defaults.

Electronic Field Study Release Notes

Defects corrected

The following defects have been fixed.

Defect Number	Description
1518	Address tool did not always work with just parcel data.
1517	When adding a new GIS layer and using SDE as the source without SDE being connected the operation failed. SDE now attempts to connect and if a failure occurs, the user is presented with the SDE connection dialog window.
1515	Added removal of Address Lookup registry setting on uninstall to EFS and Change Analysis Installers. Changed prompt to say that this would be removed.
1502	The Query tool did not always return text for an object - the object itself was displayed but the corresponding text was not always displayed.
1489	For large distances, and some directions (depending on which direction the user drew the line) the end of the line for walking man, distance tool and line tool would not draw when the line crossed images.
1477	The Escape key now works in full screen view in PentaView.

Revision 2

EFS Version 2.7, Production Release 1, Revision 2 includes the following changes and enhancements.

Selectable Layout format enhancements

By default "Allow docking" is now unchecked for the floating navigation window. Also, the zoom 100% button has been replaced with the zoom tool. Lastly, the zoom percentage dropdown, full screen and view Ortho sector tile buttons have been added to all layouts.

Default Configuration Layout enhancements

The default configuration layout now includes center navigation and print window preview buttons. The 'Print Preview' button has been replaced with the 'Print Window Preview' button. And the 'Center Navigation' button has been added after the 'View from Ortho' button. These changes have been made to all layouts except 'Version 2.6 defaults' and 'Touchscreen'.

Tooltips added to next and previous buttons

Added tooltips to next and previous image buttons on image overlay. Tooltip now indicates image count of total images found.

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Navigation Tool Enhancements

Users can now save permanent annotations for the navigation tool (walking man). If the user selects permanent annotations, the tool will draw temporary annotations until the users hits the 's' key. Then a permanent annotation of the current line points will be created.

Defects corrected

The following defects have been fixed.

Defect Number	Description
1498	Shapefile names that contained the string "shp" in the filename caused problems with accessing the dbf file of the set.
1497	GIS search for SDE did not work on all queries - not all compares worked properly.
1495	Imported Ortho images used through warehouse required image licensing in order to have tools work.
1482	Selecting the area tool after using the distance tool did not update status bar measurement properly.
1476	The Distance tool was only exporting the last segment to shapefile when using V key.
1473	Closing the workspace after adding annotations did not prompt the user to save the workspace.
1467	If the user used the undo option after moving a line annotation that overrode the layer properties, EFS would crash.
1465	If the current image was an Ortho Sector Tile, when the user launched PentaView, they got an error message from EFS. The PentaView Window would try to close and all tools would become unavailable. The user would have to exit EFS and restart to get things working again.
1462	Added custom coordinate system information for Minnesota and Wisconsin Benton, MN, Cottonwood, MN Dodge, MN Douglas, MN Lyon, MN Meeker, MN Pipestone, MN Rice, MN Door, WI La Crosse, WI Milwaukee, WI

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Defect Number	Description
1461	In the address search setup, if the profile name started with a '_', any operation on that profile caused EFS to crash.
1436	When closing PentaView, EFS returned to the GIS image instead of the active image. This only occurred if the base map was a GIS image.
1431	The copying of registry items from EFS2.6 was overwriting certain items for 2.7.

Revision 1

EFS Version 2.7, Production Release 1, Revision 1 includes the following changes and enhancements.

A new template choice for the Tool Data Export

The new choice is "User". This is accessed via the "Template source" drop down menu. Selecting "User" and then pressing the "Settings" button will bring up another dialog "Record Template".

The Record Template dialog allows the user to create a Record Template to be used for entering data when exporting tool data.

Table 1: Record Template dialog box for "user" template settings.

Field or button	Description
Create	This brings up another dialog allowing the user to select the type of Field, name of the Field and length of the Field. When the user is done and has selected "Save" it will check to make sure a field of that name does not already exist – if there is, the user is prompted to rename the field.
Edit	This will bring up the Field dialog allowing the user to edit/change the Field attributes. This can be done via double clicking on the field as well.
Delete	Upon clicking this option, the application will first prompt the user to verify the deletion.
Load	Allows the user to load in from a DBF file an existing Record Template. This can be any DBF file. Once the DBF record is loaded it can be further edited.
Save As	The user can save the Record Template to a DBF file. When doing so "_TEMPLATE" is appended onto the name the user gives the file. This will allow the user to reuse the Record Template for future Tool Data Exports.

Defects corrected

The following defects have been fixed.

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Defect Number	Description
1456	Using the navigator to scroll with the Navigation cameras slows down scrolling.
1454	Export image polygons functionality no longer exhausts system memory.
1452	Cones are drawn appropriately on main PentaView window corresponding to mouse over of alternate view windows.
1451	The default annotation layer that is automatically created when adding annotations (if no layer exists) now has a foreground color of blue and line width 5.
1450	Changing the visibility of workspace layers by toggling workspace checkboxes did not prompt the user to save the workspace.
1449	When exporting to a file from any measurement tool the file specifications dialog did allow the user to cancel.
1447	Saved toolbar configurations from EFS2.6 were not brought over to 2.7 along with the other settings. These are now brought over and available as options in the selectable configurations dialog.
1445	When adding annotations to a hidden layer the user is now notified that the layer is not visible.
1444	Adding text or icon annotations to a hidden layer caused the layer to become visible.
1443	When using the elevation tool, spot elevations now work for 'Percent rise to run' and 'angle of the slope' options.
1440	The SDE persistence issue has been resolved.
1437	Auto Labeling performance has been significantly improved. .
1435	On the search GIS objects dialog, the search text field defaulted to a blank character. When given focus the field should be empty.
1429	Text annotation box has focus by default. The user no longer has to click on the text box to select focus. They can now just start typing.
1361	Lines, Points, Icons now have separate icons in the Workspace.

Electronic Field Study Release Notes

Version 2.7, initial release

EFS Version 2.7 includes the following changes and enhancements that are not described in the *Electronic Field Study™ User Guide*.

A new application that checks for updates to EFS

Along with EFS, you now have a new application—Updater. Updater checks for, downloads, and installs updates to EFS and to itself.

You can have Updater run automatically, or you can run it from the EFS Help menu whenever you want. (If you run it yourself, you can check for updates immediately by clicking a button.)

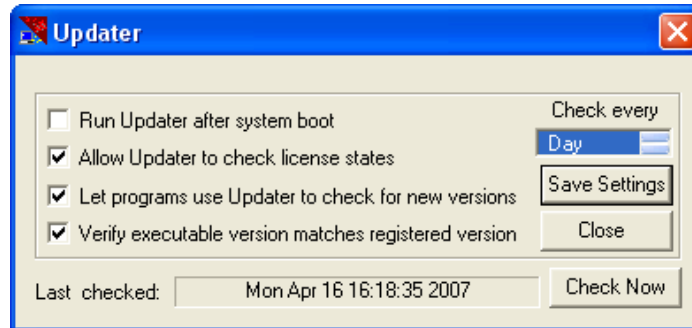


Figure 1: The Updater dialog box.

Table 2: The options on the Updater dialog box.

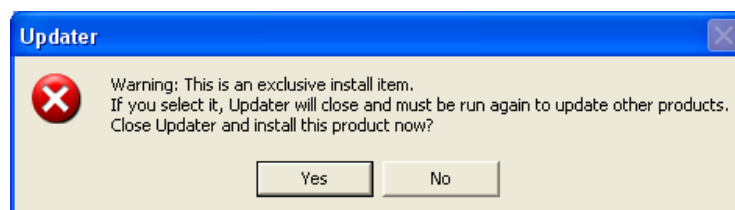
Field or button	Description
Run Updater after system boot	If this option is checked, Updater runs each time you boot your computer.
Allow Updater to check license states	If this option is checked, Updater checks the status of your software licenses to be sure they are valid and have not expired. We recommend that you keep this option checked.
Let programs use Updater to check for new versions	If this option is checked, EFS will use Updater to check if new versions are available for EFS and for Updater.
Verify executable version matches registered version	An advanced option that indicates how Updater determines that updates are available. We recommend that you keep this option checked.

Electronic Field Study Release Notes

Field or button	Description
Check every	Determines how often Updater checks for software updates. (Click the bar to the right of the field to change the frequency in which Updater checks for updates.)

Exclusive installation

Regardless of how Updater is run (automatically or not), some products require exclusive installation, that is, they must be installed separately from other products. If you choose to update a product that requires exclusive installation, Updater will warn you with the following message:



If you click “Yes,” Updater downloads and installs only the exclusive product, then closes. (You’ll need to restart Updater later to update other products.) If you click “No,” Updater cancels the installation and does not close.

Updater runs automatically ...

The Updater dialog box is pictured on page 33.

- Each time you start EFS, if the “Let programs use Updater to check for new versions” option (on the Updater dialog box) is checked.
- Each time you boot your computer, if the “Run Updater after system boot” option (on the Updater dialog box) is checked.

When Updater runs, it checks for updates once a day, once a week, every two weeks, or not at all, depending on the choice you made on the Updater dialog box.

Important: Updater lets you know if more recent versions of EFS and of Updater are available, but it *does not automatically install updates* on your computer. You must click a button to install the updates.

Setting up Updater to run automatically

Use the following procedure to set up Updater to run automatically. (To check for updates immediately, see the procedure “To check for updates immediately” on page 35.)

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u To set up Updater to run automatically:

1. Choose **Help⇒Check for Updates**. Updater opens and the Updater dialog box appears. (Figure 1.)
2. Set options as desired, using Table 2 on page 33 as a guide.
3. To save your changes, click **Save Settings** (otherwise changes are not saved).
4. Click **Close** or **Cancel** to close Updater.

Updater will check for updates according to the frequency you selected (every day, week, 2 weeks, or never). Depending on the settings you chose, these checks will occur after booting your system or after launching EFS.

What happens when Updater runs automatically?

When Updater runs automatically (after a system boot or launch of EFS), it does the following:

- Prompts you before connecting to the Internet.

Note: You can disable this prompt so that it will not appear again.

- Attempts to connect to the Internet and check for updates.
- Install updates.

Note: Installation occurs only if you click a button. (You can choose to install at a later time.)

Use the following procedure to respond to Updater when it runs automatically.

u To handle automatic Updater pop-ups:

- Follow Steps 3 – 10 of the following procedure “To check for updates immediately.”

Running Updater immediately

Use the following procedure to run Updater immediately.

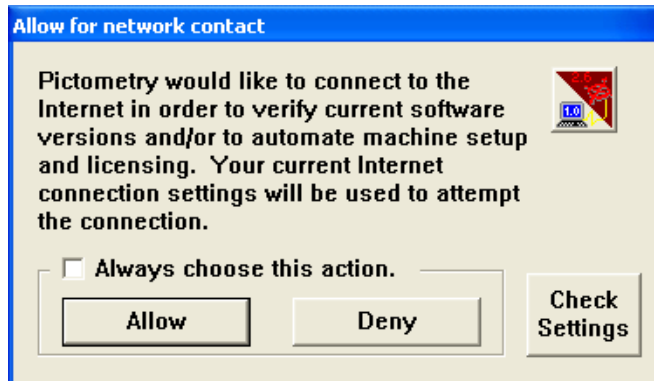
u To check for updates immediately:

1. Open Updater by choosing **Help⇒Check for Updates**.

Note: You can also change Updater's settings. Use Table 2 on page 33 as a guide. To save your changes, click **Save Settings**.

2. Click **Check Now**. The following screen appears (even if you've previously checked “Always choose this action”):

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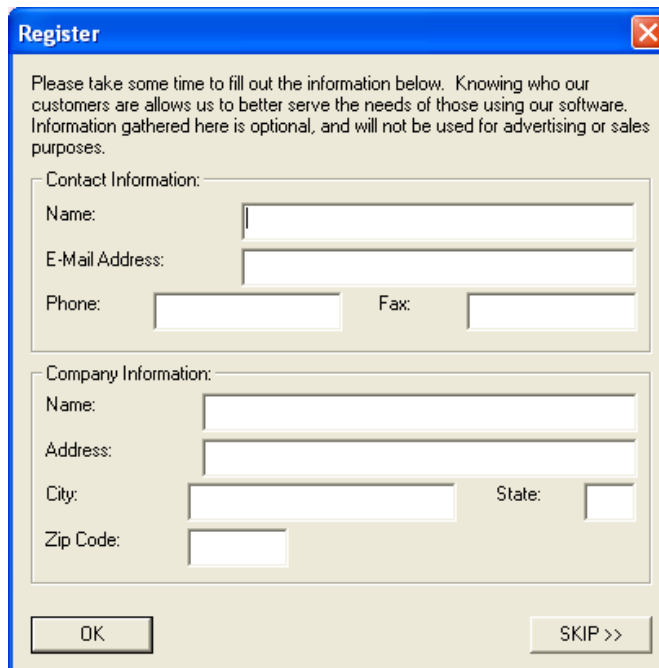


3. (Optional) To change Updater settings, click **Check Settings**, change settings as desired on the Updater dialog box, then click **Check Now** again.
4. If you don't want to be prompted with this dialog box each time Updater automatically attempts to check for updates, then check "Always choose this action."

Important: If you check this box, the button you click next (Allow or Deny) determines whether Updater will check for updates when it runs automatically. (Even if this box is checked, you can check for updates manually by clicking the Check Now button on the Updater dialog box.)

5. Click **Allow** to permit Updater to access the Pictometry website to check for updates now.
6. If you see the following dialog box, please complete the requested information.

Some fields may already be filled in.

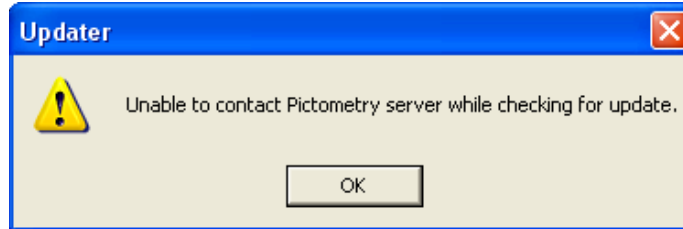


To keep your information secure, Pictometry uses a Secure Socket Layer (SSL) to transfer data.

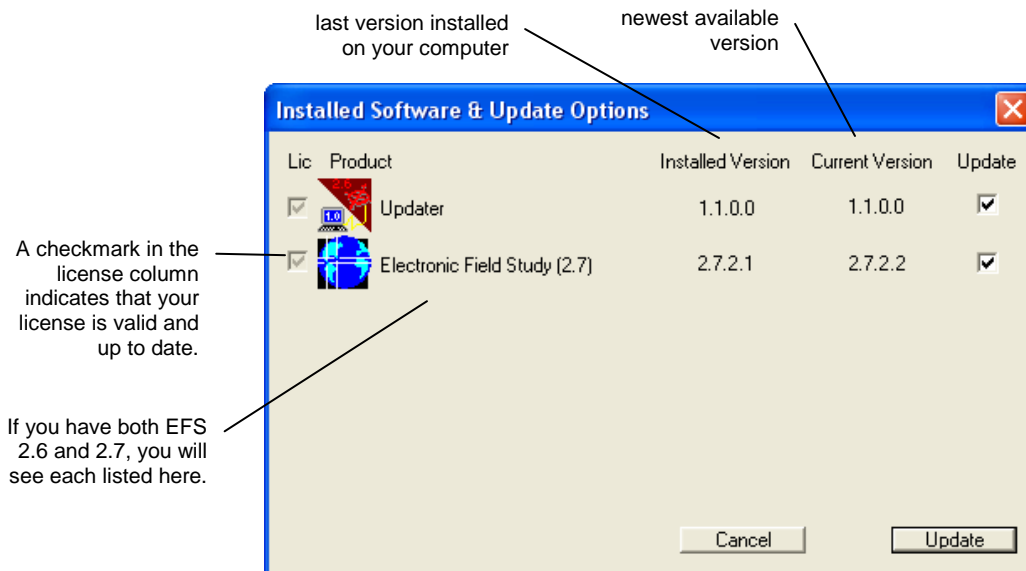
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7. After completing the Register form, click **OK**. (If you click SKIP, a similar dialog box will appear.)

If Updater cannot access the Pictometry website, the following message appears:



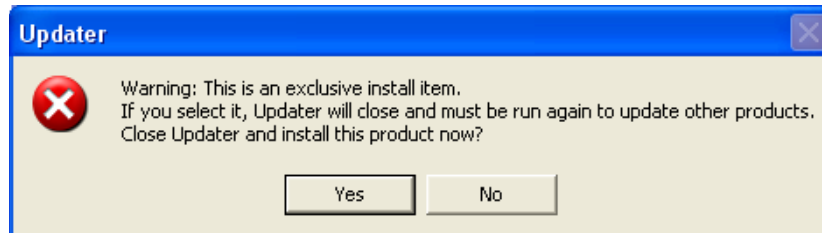
Otherwise a dialog box similar to the following appears:



Note: A checkbox appears in the Update column if updates (that you haven't already installed) are available for the product listed to its left.

8. (Optional) In the Update column, check any product you want updated, and uncheck any product you do not want updated. Keep in mind that some products must be installed separately. (See "Exclusive installation" on page 34.)

If you checked an exclusive product, the following message appears:



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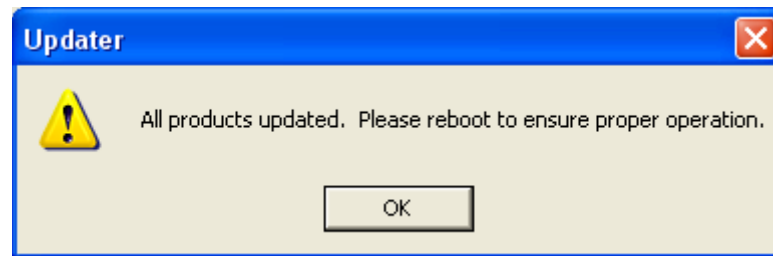
- Click **yes** to continue with installation, or **No** to cancel the installation and return to the Installed Software & Update Options dialog box.

If you clicked “Yes,” Updater begins the download and installation immediately, ignores all other checkmarks, and closes. (You’ll need to restart Updater later to update other products.)

If you clicked “No,” continue from the beginning of Step 8.

*If you **did not** check an exclusive product, continue with Step 9.*

9. To update products that are checked, click the **Update** button.
10. If Updater is still open, click **Close** to exit the application.
11. If EFS has been updated, you may see the following dialog box.



Checkbox to display Icon Annotation text

The Label Icon checkbox lets you choose whether to label Icon annotations. If checked, the text shown in the Name field is displayed below the icon. You can enter a descriptive name for the icon (otherwise the icon’s name will be “Icon n” where n is the nth icon created in your EFS session).

The Label Icon checkbox is located on Icon Annotation Properties dialog box (Attributes tab).

Navigation cameras in PentaView

Navigation camera buttons located in the toolbar area are now operational in PentaView. These buttons appear grayed out in some figures (Figures 3-4, 8-2, 8-4, and 8-5). Whenever an Oblique image is active (following an image search), the corresponding Navigation Camera button is shown in its depressed state (down position).

New screen layout

EFS includes a new screen layout called “Classic View.” The Classic View layout gives you all of the default settings and toolbar buttons that were found in EFS Version 2.6. You can select this layout from the Select Layout dialog box when you start EFS the first time after installation, or you can select it later. (See “After Installing” on page 1-9 and “EFS provides layout options” on page 22-2.)

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Side effect of keeping your Version 2.6 settings with “Use Default”

As stated in the User Guide, after installing Version 2.7, existing EFS users can keep their Version 2.6 layouts by clicking the Use Default button when prompted to select a layout.

If you choose to keep your 2.6 layout, you should be aware that new Version 2.7 toolbars will *not* be *automatically* available (because they were not contained in your Version 2.6 settings). A message appears stating this when you select Use Default.

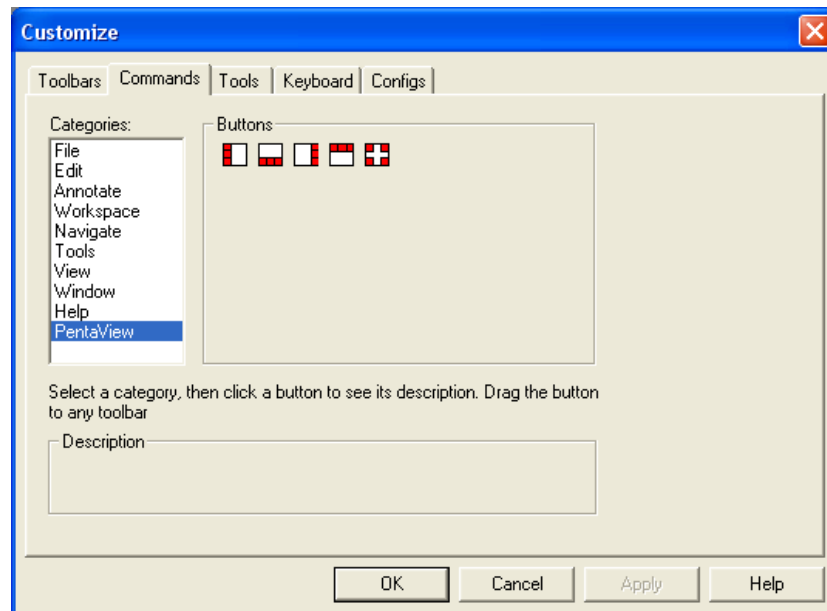
Version 2.7 includes two new toolbars: PentaView and Plugins (if you’ve created plugins to EFS).

A simple workaround

Even though the toolbars are not automatically available (not listed on the Toolbars tab of the Customize dialog box), the toolbar buttons associated with them *are* available, and you can easily create the toolbars yourself. Here’s how.

u To create a toolbar for PentaView or Plugins:

1. Choose **Tools**⇒**Customize**⇒**Commands** tab. The Customize dialog box appears and opens to the Commands tab.



2. In the Categories list, select the category (**PentaView** or **Plugins**) that contains the buttons you want to add to the new toolbar.
3. Use the mouse to grab a toolbar button and drag it to the toolbar area. Release the mouse button.

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EFS creates a new toolbar and adds the button to it. The toolbar is named “Toolbar n” where “n” is one more than the number of the last toolbar you added, depending on where you drag it.

4. Repeat Step 3 for each button you wish to add to the new toolbar, but drag each button to the new toolbar (instead of to the toolbar area). Each button *is added* to the new toolbar.
5. Rename your new toolbar as follows:
 - a. Click the **Commands** tab.
 - b. Select **Toolbar** “n” where “n” is the number of the toolbar you just added.
 - c. In the Toolbar name box, type the name for the toolbar. (To be consistent with Version 2.7, type “**PentaView**” or “**Plugins**”.)
6. Click **OK**.
7. (*Optional*) Dock the toolbar by grabbing its left side and dragging it close to another toolbar. It will “connect” with the neighboring toolbar and dock into place.

You now have your Version 2.6 layout and settings with the new Version 2.7 toolbars.

Grid Tool

Grid Tool anomalies

You may notice some anomalies or unexpected behaviors with the Grid Tool. Please let us know if you encounter any problems, and be sure to save any workspace changes *before* using the Grid Tool. We appreciate your patience.

Heading field renamed

The “Heading” field on the Construct tab of the Grid Tool Properties dialog box has been renamed to “Bearing.” (This field is described in Part II, Chapter 14 of the *Electronic Field Study User Guide*. See Table 14-1 on page 14-5.)

Grid data saved automatically after entry

The Grid Tool has been enhanced so that data you enter into a grid’s segments is saved after you click the Save button on the data entry template (Step 4 of the procedure for entering data into a grid, which starts on page 14-18.)

Instead of storing the data temporarily (as stated on page 14-19 of the *Electronic Field Study User Guide*), *EFS* stores the data in the shapefile or in the SDE database you previously chose. If you did not already choose a file in which to save the data, you’ll be prompted to do so after clicking Save.

Electronic Field Study Release Notes

New field names for exporting tool data

When exporting tool data, to avoid any potential conflicts in field names between EFS export fields and data entry template fields, EFS appends the prefix “P_” to all *measurement* fields it exports (but not to your data entry fields). For example, distance measurements are exported to a field called “P_Dist” and a stop position is exported to “P_StopX.”

Defects corrected

The following defects have been fixed.

Defect Number	Description
1428	Measurement tools now display text (the measurements taken) by default. That is, the “Draw Associated Text” checkbox (on the Annotation tab of each measurement tools’ Properties dialog box) is checked by default.
1426	If you have EFS Version 2.6 already installed, and you select a default screen layout, EFS will no longer use your Version 2.6 tool settings.
1424	When a cantered image is selected, the Alternate View buttons (and on-image Navigation Cameras) are now available.
1387	When you run EFS 2.7 for the first time, if you click the Use Default button (on the Select Layout dialog box), EFS now uses your existing Version 2.6 screen layout.
1342	<p>If the Navigation Cameras or the Next/Prev buttons are turned on, then the compass is no longer drawn multiple times when you scroll.</p> <p>Similarly, if the Cameras or the Next/Prev buttons are turned on (and you are in Offset mode), then the Offset Ground Plane indicator is no longer drawn multiple times.</p>