

EFT - Engineering Field Tools



EFT Framework

User Documentation

August, 2007

EFT Framework

August, 2007

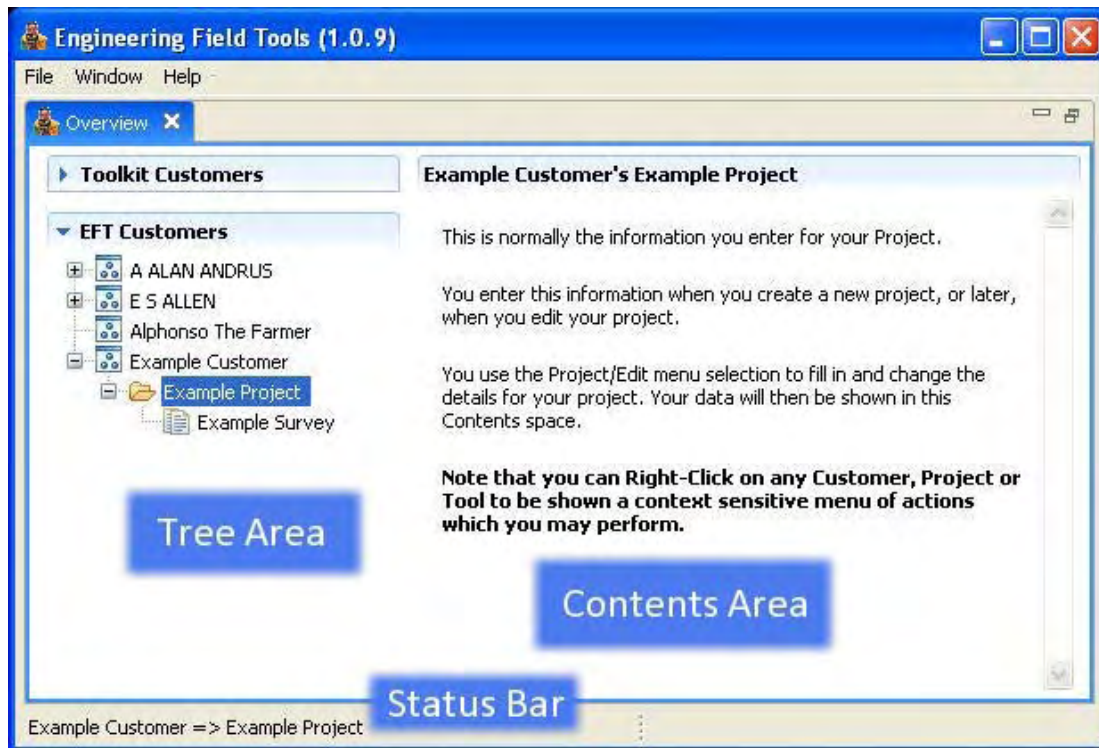
Table of Contents

Introduction	2
Interface Overview	2
Tree Area	2
Contents Area	3
Status Bar	3
Overview Functionality	4
Trees	4
Customer Rollup Areas	4
Refresh	4
Customer Service Toolkit (CST) Interaction	4
Working with Toolkit Customers	4
Working with Customer and Project Menus	5
Drag and Drop Between Trees	5
Synchronizing with Toolkit	6
Italicized Customer names - What it means	6
Working with Customers	6
Menus for Toolkit Customer Tree	6
Menus for EFT Customer Tree	7
Working with Projects	8
Menus for EFT Projects	8
Working with Tool Managers	9
Menus for EFT Tool Managers	9
New tool wizards	9
Concepts & Definitions	10

Introduction

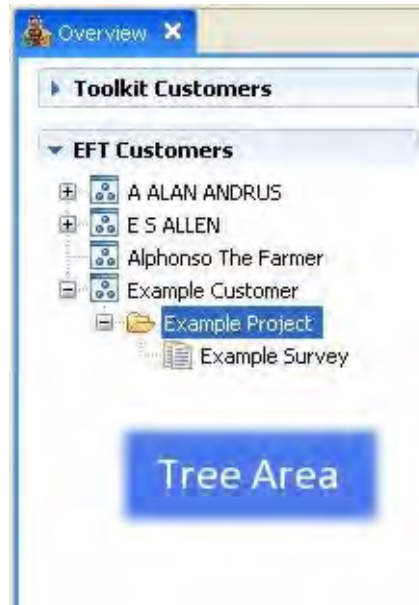
The Engineering Field Tools (EFT) Framework is an application platform that coordinates a variety of software tools that enable engineering practices. The primary management interface to these tools is the EFT Overview. The Overview gives a snapshot of all customers, projects, and managers or tools available for use within EFT. The Overview interface consists of a Tree Area which shows an expandable list of Customers and associated Projects, and a Contents Area which gives a summary of the selected item. The Overview operates primarily on local EFT Customers, working with any number of their projects and sets of data (managers). Additionally, if you have NRCS's Customer Service Toolkit (Toolkit) installed, Overview can work with Toolkit Customers. These Toolkit Customers are treated separately and shown in their own tree in the Tree Area. You do not need to have Toolkit installed to work with EFT. EFT is not designed to be a full-featured Toolkit management interface, so the way you work with Toolkit Customers and move back and forth between a Toolkit Customer and a local EFT Customer is explained in the Customer Service Toolkit (CST) Interaction section.

Interface Overview



Tree Area

The tree area provides an alphabetically sorted navigation hierarchy for customer-oriented projects similar to the Windows file explorer. Projects associated with a Customer are shown beneath the Customer. Managers or tools that represent engineering applications are underneath Projects. A Customer may have multiple Projects and a Project may contain multiple named engineering tools, designers, or managers.



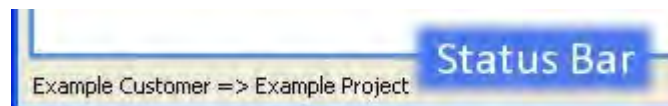
Contents Area

The contents area takes up the majority of the right-hand side of the Overview. Detailed information about the item selected in the tree area, whether it be a customer, project, manager or tool, is shown here.



Status Bar

The status bar is located at the bottom of EFT. It's designed to give an indication of where you are similar to the navigation hierarchy provided by the customer tree. Look here for any status messages.



Overview Functionality

Trees

The tree area is the main hierarchical organization of Customers, Projects, and tools or managers. The tree follows a classic branch-leaf A "+" symbol next to a Customer or Project name indicates that the Customer or Project contains more items. Selecting the "+" will expand the container and display the contents alphabetically underneath that Customer or Project. This is a parent-child relationship. Selecting a "-" next to a parent will collapse that item.

Customer Rollup Areas

There are two possible Customer tree areas, the default EFT Customers tree area and, if you have Customer Service Toolkit installed, the Toolkit Customers area. For clarity, you can select the arrow beside the tree heading and collapse the whole tree, freeing up screen real estate.

Refresh

Typically, the list of Customers displayed in the tree is kept in synch by EFT. From time-to-time, though, the Customer tree may need to be refreshed manually. To refresh the Customer tree manually, right-click on the Customer tree's heading and a context menu will appear. Select "Refresh" and the tree will be repopulated with the latest data.

Customer Service Toolkit (CST) Interaction

Customer Service Toolkit (CST, Toolkit) is the primary conservation planning tool used by NRCS, districts and technical service providers that allows access to a central repository (the National Conservation Planning Database, NCPDB). If Toolkit is installed on the client machine, EFT can take advantage of a restricted amount of information downloaded by Toolkit. The Toolkit directory structure has an area, the Engineering folder, where EFT related data is stored. EFT interacts with this directory only. For more information about, obtaining or using Customer Service Toolkit please see the national Toolkit Training and Support website [<http://www.itc.nrcs.usda.gov/toolkit/training.htm>] or access the Toolkit Online Help [<http://cst.nrcs.usda.gov/Toolkit/Help/>].

Working with Toolkit Customers

Prior to working with EFT, Toolkit customer information (metadata) must be exported via Toolkit so that EFT can see the checked-out Toolkit Customers. Once the metadata has been exported, any checked-out Toolkit customers will be visible to EFT. In order to make sure that there's no data corruption, EFT requires that a Toolkit customer be copied into a local EFT workspace and operated on from there. There are two ways to get Toolkit customer data - visible in the Toolkit Customers tree - once exported from the Toolkit application, into the EFT working space - visible as the EFT Customers tree.

- **Drag and Drop** - select a customer from one tree and drag it to another tree
- **Menus** - right-click a Customer or Customer's Project and use the context menus

Working with Customer and Project Menus

Right-clicking on a Customer in the Toolkit Customers tree shows a context menu with two options:



- **Add Customer** to EFT will copy the Toolkit Customer to the EFT Customers tree. The Customer is now ready and available to be used within EFT by EFT's various engineering tools.
- **Update Customer** from EFT will synch any changes or designs made underneath the corresponding Customer's entry in the EFT Customers tree with the Toolkit Customers tree. The Customer is now ready to be checked-in to the NCPDB via the Toolkit program.

Drag and Drop Between Trees



The two major operations, copying and updating, can also be performed via drag-and-drop. Selecting a Customer with the mouse and dragging it from one tree to another will either:

- Toolkit Customers tree to EFT Customers tree: copy the Customer from the Toolkit Customers tree to the EFT Customers tree, placing the Customer in the EFT working area. The Customer is now ready and available to be used with EFT.
- EFT Customers tree to the Toolkit Customers tree: update the corresponding Customer's entry in the Toolkit Customers tree. Only the select Customer's information will be updated. A Customer cannot be placed on top of another Customer. Projects from one Customer cannot be dragged onto or into another Customer or Customer's project.

Synchronizing with Toolkit

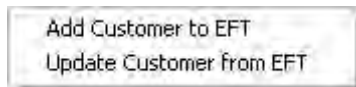
Once done with any changes in EFT and properly synchronized in the EFT Toolkit Customers tree, the normal Toolkit check-in process can be followed to synch with the NCPDB. See Toolkit Online Help [<http://cst.nrcs.usda.gov/Toolkit/Help/>] > Manage Toolkit Data > Check In/Out Customer Data > Check In a Customer Folder

Italicized Customer names - What it means

You may see a Customer whose name is italicized in the Toolkit Customers tree - this indicates that the customer is out of synch with the external Toolkit program or has been deleted. You should verify that your Toolkit application has exported the Customer in question properly.

Working with Customers

Menus for Toolkit Customer Tree



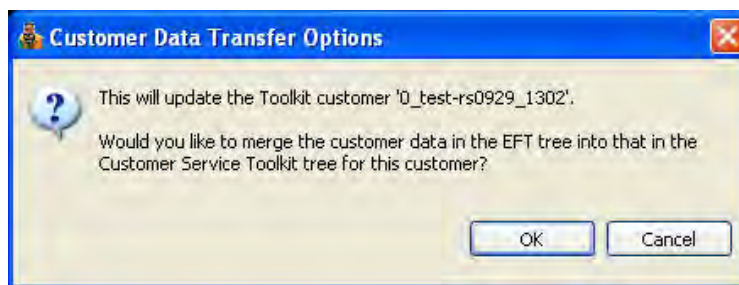
Right-clicking on a Customer in the Toolkit Customer tree yields a context-menu with two options, Add Customer to EFT and Update Customer from EFT.

- **Add Customer** to EFT will copy the Toolkit customer into the EFT Customers tree. The Toolkit customer will now show up as an EFT Customer and is available for use with any of EFT's managers or tools.

Note

Behind the scenes, EFT copies the Toolkit "Engineering" directory contents into EFT's default customer working space so that EFT can operate on customer data without interfering with Toolkit's normal function.

- **Update Customer** from EFT action will copy the corresponding EFT default space contents into the Toolkit customer's local repository. A dialog box asking for confirmation of this process will be presented prior to copying.

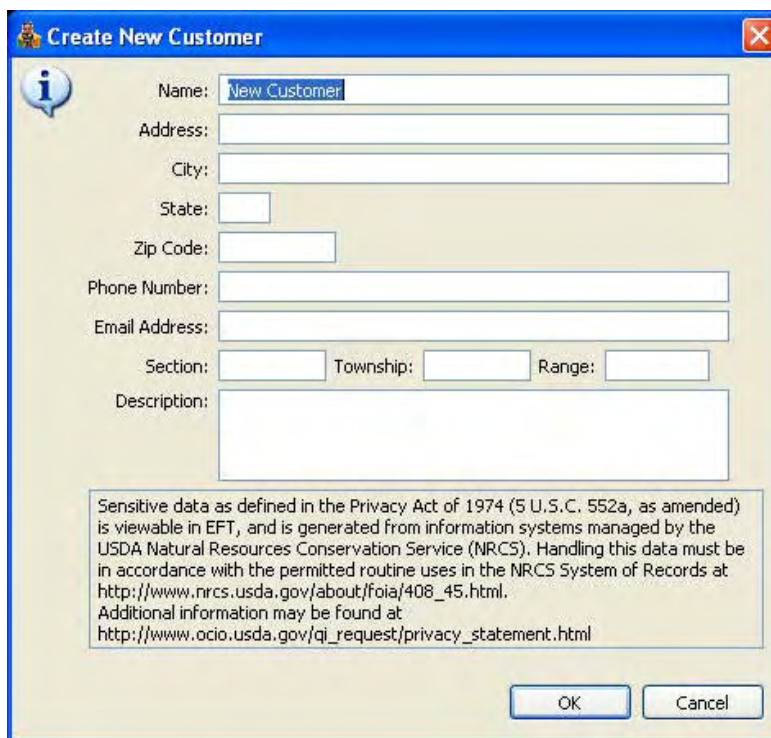


Menus for EFT Customer Tree



Right-clicking on a Customer's name will display a context menu of actions for Customers.

- **New Customer** menu action will display a form pertinent to creating a new Customer. The new customer form has areas for the name, address, city, state, zip code, phone number, e-mail address, section, township, range, as well as an area for a free-text description for that customer.

A dialog box titled 'Create New Customer' with a blue header bar and a close button (X) in the top right corner. The dialog has a light beige background. On the left side, there is an information icon (i) in a blue circle. The form contains the following fields: 'Name' (text box with 'New Customer' entered), 'Address' (text box), 'City' (text box), 'State' (text box), 'Zip Code' (text box), 'Phone Number' (text box), 'Email Address' (text box), 'Section' (text box), 'Township' (text box), 'Range' (text box), and 'Description' (text area). At the bottom, there are 'OK' and 'Cancel' buttons. A text box at the bottom of the dialog contains the following text: 'Sensitive data as defined in the Privacy Act of 1974 (5 U.S.C. 552a, as amended) is viewable in EFT, and is generated from information systems managed by the USDA Natural Resources Conservation Service (NRCS). Handling this data must be in accordance with the permitted routine uses in the NRCS System of Records at http://www.nrcs.usda.gov/about/foia/408_45.html. Additional information may be found at http://www.ocio.usda.gov/qj_request/privacy_statement.html'.

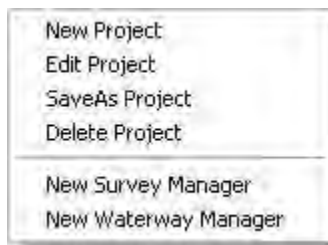
- **Edit Customer** menu action will display a dialog similar to the the New Customer dialog to allow editing of the specific customer's information.
- **SaveAs Customer** will create a copy of the customer with a new name. A dialog box asking for the new name will appear when this action is selected.
- **Delete Customer** will delete the currently selected customer. A confirmation alert will appear prior to deletion.
- **Export Customer to Zipfile** will compress the customer's directory into a zip file, useful for archiving, transfer, or exchange. A file location dialog box will appear to complete the export.

- **Import Customer from Zipfile** will take a compressed directory containing a customer and import the contents into the EFT Customers area.

Finally, **New Project** will create a new folder for managers underneath the current customer. A form for the name and description of the project will be presented when this action is selected.

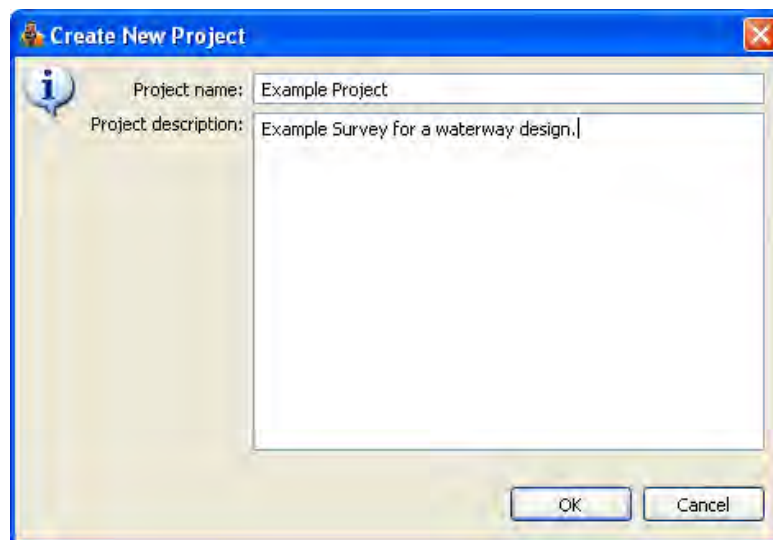
Working with Projects

Menus for EFT Projects



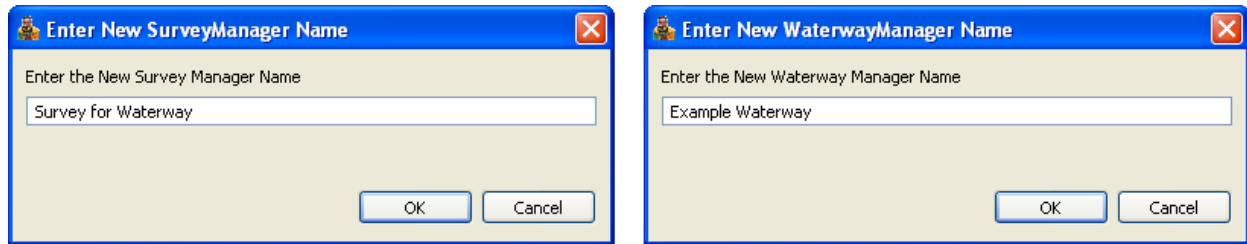
Right-clicking on a Project will bring up a context menu of options specific to Projects.

- **New Project** will allow the creation of a new Project for the current customer.



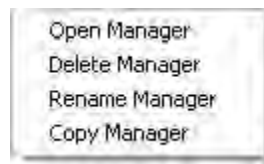
- **Edit Project** brings up a dialog so that the name and the description of the Project can be edited.
- **SaveAs Project** copies the current project to another name for the same Customer.
- **Delete Project** will delete a project. Confirmation will appear prior to deletion.

Below these four Project actions there are tool/manager specific creation menu items. In the first image above, the Survey Engineering Tool and Waterway Design Tool have been installed in EFT, so the New Survey Manager and New Waterway Manager actions appear. Selecting one of these will prompt for the name of the manager and open the requested tool, as shown on the next page.



Working with Tool Managers

Menus for EFT Tool Managers



Right-clicking on a tool or tool manager will display a context-menu with four actions: Open, Delete, Rename, and Copy.

- **Open** will initiate the specific engineering tool. For more information on specific engineering tools, look to the tool manager's Help documentation.
- **Delete** will delete the tool data for this Customer's project. A confirmation dialog will appear prior to deletion.
- **Rename** will allow a change to the manager's name.
- **Copy** will create a duplicate of the tool manager in the same Customer's Project.

New tool wizards



Another way to create and start a new Tool or Manager is via the File menu Wizard. Each Tool that is installed in EFT will have their own "New Tool" wizard. The Wizard will walk you through creating a new manager for that tool, assisting in associating the new tool with a Customer and a Project Highlighted in the image above is the File menu access to the Waterway Design Tool Manager.

Concepts & Definitions

Customer	The top most organizational unit, contains Projects and the output of Tools
Customer Service Toolkit	Also known as Toolkit or CST, Toolkit is a software application created by the USDA's NRCS ITC. See Toolkit Homepage for more detailed information. If Toolkit is installed on the client machine a second tree, the Toolkit Customers tree, will appear in the EFT Overview.
Drag and Drop	The process of moving a customer or associated projects between two trees.
Engineering Field Tools	An EBAAG software application framework designed to integrate multiple software applications that can be used stand-alone or in concert to assist field engineers.
Overview	The primary view for EFT that organizes Customers, Projects, and engineering Tools. The Overview is made up of a Customer Tree Area, a Contents Area and a Status Bar.
Project	An organizational unit under Customers, contains the output of Tools
Manager application	See Tool.
Tool	An engineering software application, such as the Survey Engineering Tool or the Waterway Design Tool. Also referred to as a Manager application.
Tree	A hierarchical representation of a set of Customers and associated Projects and Tools. The main tree is called EFT Customers. A second tree, named Toolkit Customers, will appear if Customer Service Toolkit is installed on the client machine.