

Metrology Xplorer 2

Installation and Operators Guide

Metrology Xplorer v2.0 Source: METBASE | User: DTS | Level: 5 | Seg: MT | Desktop: DEFAULT | 07/10/2011 5:39 PM

File Add Edit Search Reports Tools Help Windows

Field: 14201 - Asset No. Value: tds?

Instrument Browser

Edit Calibration Record - Asset Number: TDS520

Cal-Date: 05/31/2011 Cal-Time: 12:33:31 Interval: 12 Type: M Pass: N Due-Date: 05/31/2011

C-Tech: Doug C-Time: 4.0 Reliability: -1 FoundLeft: FOUND-LEFT

Humidity: 42.00 Temp: 24.00 CAL VALUE: 2.000 Certificates: TDS520-20110531.pdf

Cal Procedure: Tektronix TDS520: (1 year): VER IEEE/5500-SC600 : 1.00 Rev: \$Revision\$

Comment (Accept / Reject Reason): ACCEPTED BY MIGUEL. MAYBE VERIFY BY FORCING THE APPROVER TO TYPE IN HIS

Approval Required: YES Approved / Rejected: YES Approved / Rejected by: DOUG LYNDE Date Approved / Rejected: 07/05/2011

Standards Used:

Asset No.	Manufacturer	Model	Serial Number
SAMPLE-5500	Fuke	5500A	4820000

1 row

Edit Location Record - Asset Number: TDS520

Type: M Pass: N Due-Date: 05/31/2011

FoundLeft: FOUND-LEFT

External Certificate: TDS520-20110531.pdf

Rev:

User Name: D. Lynde Location: office Dept: boss Station:

Issue Date: 04/05/2005 Issue Time: 14:43:12 Return Date: Return Time:

Location Notes:

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Introduction

Metrology Xplorer 2 Overview

Welcome to Metrology Xplorer 2. Several years ago, On Time Support created the first real web application for MET/TRACK, Metrology Xplorer 1. Metrology Xplorer 2 is the next generation product based on the OTS METDaemon Technology. The METDaemon was originally released with our EMail Notification product and has been very successful allowing customers to automatically generate emails from their MET/TRACK system. One of the features of the METDaemon was the ease of installation with no dedicated client installation because the existing web browser was used for administration.

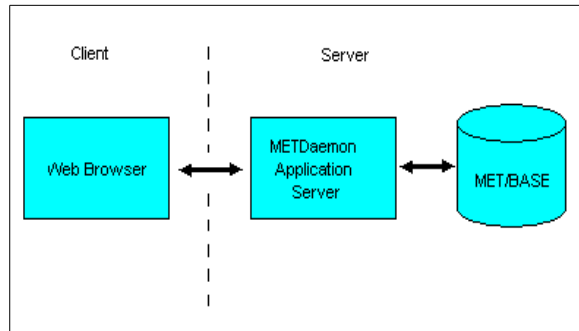
Here are some advantages and features of Metrology Xplorer 2:

- Almost all computers have a web browser pre-installed; you do not need to install anything on your customer's computer to allow access to the MET/TRACK database or run reports.
- Most people are already familiar with browser usage. There is no need for extensive training on MET/TRACK operation. Metrology Xplorer 2 operates like MET/TRACK, so existing MET/TRACK users will already be familiar with it.
- Internal and external customers may view/edit instrument data and run SQL and Crystal Reports at their convenience, instead of having to disrupt your work flow to provide them with this information. Different security levels allow for different levels of access.
- Since many operating systems have web browsers available for them, you can provide access to your metrology data to customers that normally would not be able to access your MET/TRACK data due to OS incompatibility.
- METx2 supports the MET/TRACK desktops, but there is also a local desktop configuration that the user can modify to allow changing fonts, colors, and date formats. These modifications are associated with the user ID, thereby allowing the settings to follow the user if they use a different computer to access the database.
- METx2 can access multiple databases easily and does not modify the computer's registry.

METROLOGY XPLOER® allows you to provide access to your MET/TRACK Database (7.x) using most popular web browsers such as Mozilla Firefox® 3.6+ and Internet Explorer® 7+. Many IT departments are starting to mandate the use of web browsers for database access because it requires less IT manpower to support since web browsers are already part of the operating system. In addition to the IT manpower issues, IT does not have to be concerned with applications that have to be installed on a client machine.

METROLOGY XPLOER 2 (METx2) is a component of the On Time Support METDaemon. The METDaemon is an application server technology that provides access to the MET/TRACK database through browser-based applications.

How Metrology Xplorer 2 Works



METx2 - Block Diagram

On the client side, the user starts a web browser and selects the link to METx2 which will access the MET/TRACK database. When this process occurs, the web browser is actually communicating with the OTS METDaemon. The METDaemon has an internal web server and does not require any other web server such as Apache or IIS. The operator is presented with a login screen and the METDaemon will verify their security level before connecting them to the MET/TRACK database

As you can see from the diagram, there are very few components for METx2. If the Sybase engine is already installed for MET/CAL and MET/TRACK to operate, then the METDaemon is all that is required. This allows a very simple installation process.

Software/Hardware Requirements for Proper Operation

Client Computer Requirements

- Internet Explorer 7+ or Mozilla Firefox 3.6+ (IE6 will run but it may be slow)
- 512MB of RAM (More Ram is recommended)

Obtaining the Software/Updates

Please see the METDaemon documentation for information on upgrading the METDaemon Application Server. Contact On Time Support at:

On Time Support, Inc.
25132 Oakhurst Dr.
Spring, TX 77386
PH: 281-296-6066

FAX: 281-465-9478

support@ontimesupport.com

MET/TRACK Features not Supported in METx2

- Automatically starting MET/CAL, 5500/CAL, or MET/CAL Lite
- Combining Calibrations
- Data Importation / Editing customer user tables

- Certain Regional Options like currency
- METx2 will not launch PDF files from the Engineering Notes Fields in this release, however, they can be launched from SQL reports AND up to 10 database fields(clickable titles) by utilizing the new Document Linking feature.

METx2 Features not Supported in MET/TRACK

- SQL Quick Reports with prompts
- Field linking(open external documents) from up to 10 alphanumeric fields and even merge table fields.
- Browse Screen is updated immediately after a record is edited. No need to refresh the screen.
- METx2 supports a local desktop function allowing a user to set font sizes and colors. This configuration is per user.
- Language Titles can be configured per user which makes it easier to implement large systems across several countries.
- METx2 has a session tracking function that can be used to display which items were added/edited during the session.
- Crystal and SQL Reports may be configured per user.
- RTF Formatting in the Engineering Notes fields is allowed with a new toolbar.



NOTE: When this graphic is displayed, this indicates there are some differences between MET/TRACK 7 and METx2 that should be noted.

Web Browser vs Dedicated Installed Applications

Metrology Xplorer 2 represents a real breakthrough in Browser applications. While you may think METx2 is a typical browser application, it is not. METx2 was created using some of the most recent JAVA and AJAX software standards. For example, when data displayed in a browser application is changed, the whole screen is refreshed. In METx2, the same data is inserted or changed in the existing screen without a refresh. We have put in a lot of effort to make a very smooth application that does not look like a typical browser application.

NOTE: When using METx2, do not use the Browser's Forward and Back buttons to navigate the pages. This will only reset the application.

Having said all of that, there are some considerations when using METx2 with your MET/TRACK database. First, METx2 was written to emulate, as closely as possible, the dedicated MET/TRACK client application. Fluke licensed the look and feel of the application and this is displayed on the METx2 login screen. Dedicated applications and Web Browsers do not work the same way. For example, MET/TRACK uses an engineering notes field called a BLOB (Binary Large Object). Web Browsers do not treat these field types the same way as a dedicated installed program would. However, most of the MET/TRACK fields work exactly like they would in MET/TRACK.

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METDaemon Build 253

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Another example of compatibility issues is the subject of fonts types and sizes. METx2 relies on the MET/TRACK configuration program which is used to create the fields and layout the screens. An example of a MET/TRACK Browse Screen is displayed at right.

MET/TRACK 7.x Dedicated Client Browse Screen

METx2 comes really close to emulating these fields. However, there are times when a field does not emulate perfectly. Usually the longer fields are affected. Both applications are using the default desktop. No special adjustments have been made for METx2. However, you can see some differences in how METx2 interpreted the screen coordinates and built the screens versus how MET/TRACK does this.

Metrology Xplorer 2 Using Firefox

As you can see from the two screen shots, METx2 comes really close to emulating the MET/TRACK screen configurations. However, you may want to consider creating a special Desktop(s) for METx2 so that the screens look their best. The Desktop will also allow you to control the display of information by allowing the suppression of data fields.

METx2 has been tested with several browsers. The only officially supported browsers are Internet Explorer 7+ (IE7) and Firefox 3.6+. However, these browsers do not operate exactly the same way. There may be cases where the screens look slightly different. Some customers are still required to use Internet Explorer version 6 (IE6). METx2 will work, but will display a warning screen when started. IE6 is about 5 times slower than IE7 and Firefox.

Screen resolution will also affect METx2. METx2 attempts to build the screens and use the resolution as efficiently as possible. However, some customers have very complex screens with a lot of fields. There may be times when these screens may barely fit in MET/TRACK, but will not fit in METx2 without the use of screen scroll bars. The solution for this is to either upgrade the screen resolution or create another desktop for METx2 that uses smaller fonts or less fields. **Creating a special METx2 desktop is highly recommended.**

Security Considerations when using METx2

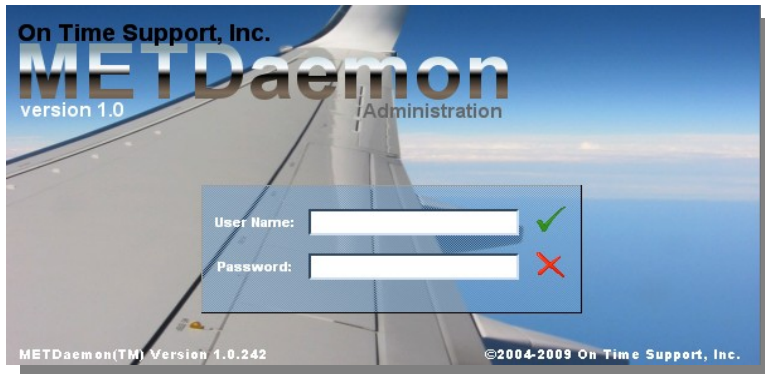
Because METx2 is a browser product, there may be security concerns. This version of METx2 may be configured to utilize SSL (https://, port 443). For most customers, METx2 will be operating inside of a company's Local Area Network (LAN). These networks are usually behind a firewall and the METDaemon should not be affected. There are many installed METDaemons, and there has not been any reports of security problems. However, we take security seriously and are looking at ways to enhance security without adversely affecting performance. **The new METDaemon does not modify the servers registry during installation or during operation.**

If your company wants to share METx2 with a customer or supplier, you will have to create a "hole" in the firewall to allow access. Some companies use what is called a DMZ. In computer networks, a DMZ (demilitarized zone) is a computer host or small network inserted as a "neutral zone" between a company's private network and the outside public network. It prevents outside users from getting direct access to a server that has company data. (The term comes from the geographic buffer zone that was set up between North Korea and South Korea following the UN "police action" in the early 1950s.) A DMZ is an optional and more secure approach to a firewall. We use the "DMZ" as a way to demo our products to our customers and several companies use the same techniques. You should discuss this with your IT department if you want outside users to access the MET/TRACK database. There are other considerations regarding sharing MET/TRACK information. Make sure the "outside user" has an appropriate user level and password, and consider changing their password on a regular interval. If this user only needs to view data and not make any changes, consider using Metrology Explorer 1, which is a read only product that can run Crystal and SQL reports.

Note: There are no problems using Metrology Explorer 1 and Metrology Explorer 2 on the same system.

Configuration

Configuring the METDaemon To Run Metrology Xplorer



After installing and starting the METDaemon, the next step is to configure it to run METx2. If you have the EMail Notification program, then you will already be familiar with the operation of the METDaemon Administration Program.

Adding METx2 and Crystal Reports Licenses

Licenses must be installed before METx2 will operate. Contact On Time Support for a demo license.

Please see the "Licenses" section of the METDaemon manual to install METx2 or Crystal Reports licenses.

Regarding Crystal Reports and licenses

The METDaemon utilizes Crystal Reports version 11.5. We picked this version to use because the code supplied to us from SAP appeared to be the best of all the versions available. Also, there appears to be a good compatibility between different versions on Crystal Reports that supports MET/CAL and MET/TRACK. For example, if you have MET/TRACK version 7.2 you will be using Crystal Reports 10. If you have ME/TRACK version 7.3 you will be using Crystal Reports 12.

Fluke has provided their customers with the Crystal Reports editor and included licenses to use those editors. These licenses cannot be used in the METDaemon license manager. If you enter one of those

licenses the system will simply ignore the license.

The METDaemon Crystal Reports package will not support the use of the Crystal Reports version 10 editor, and On Time Support provides the version 11.5 editor when you purchase the Crystal Reports license. If you have Crystal Reports version 12 used with MET/TRACK version 7.3, you can use that editor to create reports for METx2 and we have provided some examples the manual supplement for Crystal Reports.

Our testing has indicated that you can install the Crystal Reports 11.5 editor on a computer that already has the Crystal Reports 10 editor installed. However, as with any installed computer system, and with many new rules being enforced from IT departments, we cannot guarantee that no conflicts will occur.

If you have Crystal Reports 12 for MET/TRACK version 7.3, you will not need to install the Crystal 11.5 Editor. You will only need to install the license in METDaemon Administration Program. A supplement for using Crystal Reports with METx2 is sold as a separate option.

Configure the MET/TRACK Database for METx2

Before connecting to METx2 for the first time, the METDaemon administrator must run the appropriate install script from within the METDaemon Administration Program.

Please see the "Prepare Database for Web Applications" section of the METDaemon documentation.

Configuring the Database Connection

Datasources are configured in the METDaemon Administration program.

Data entry tasks are usually performed by operators. Administrators are responsible for the configuration of the MET/TRACK database and therefore should be familiar with their data requirements and how data is entered. The administrator should also understand how the server is installed and where the data is stored.

Please refer to the "Datasources" section in the METDaemon documentation for information on configuring datasources.

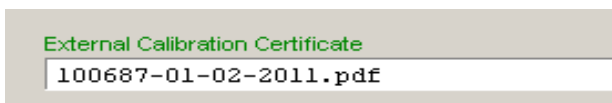
Using Metrology Xplorer 2

Document Linking

Metrology Xplorer 2 has a new feature that allows documents and even web sites to be accessed from within the application. There has always been a need for the ability to manage external documents, like product manuals, external certificates or vendor contact sites.

Please refer to the "Document Linking" or "Examples" sections of the METDaemon documentation for information on configuring up to 10 fields for linking to external documents.

After the links have been configured in the METDaemon Administration program, the "Title" of the selected fields will become click-able, and will attempt to open the external file. The data in a linked field **MUST** be the filename, or a folder and file name. Click the field title to open the file in a new browser window.



Report Groups

Another new feature of METx2 is Report Grouping. Those reports have to be configured in a group in METDaemon Administration before they will be displayed. This feature affects both Crystal and SQL Reports. A major advantage of this feature is by grouping reports for a specific group, you can control which group can see which report. For example, there may be cases where managers will only want to see certain reports. Please refer to the METDaemon documentation for information on Report Groups.

Connecting to METx2

Please note that URLs are Case Sensitive.

For port 80 the default URL is:

`http://{Your server name or IP}/webapps/METx2/`

And for port 82, the default URL would be:

`http://{Your server name or IP}:82/webapps/METx2/`

From your web browser click on the link that accesses METx2. This link will be provided by the administrator after the system has been installed.

The Web Browser will display a Dialog Box indicating the loading process in percent. METx2

downloads several scripts to the browser that must be loaded before the user can connect to the MET/TRACK database. If this is a first time connection, this process may take a few seconds. If the web browser cache is not deleted, then the next page load will be faster.



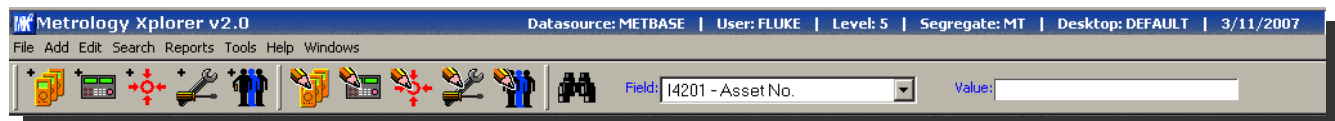
METx2 Login Screen



After the page has loaded, the operator is presented with a login screen as shown at left. Since METx2 was originally designed to connect to multiple databases, you may need to select the data source first. For most users, this is not necessary. The operator will have to enter the user name and password that has been assigned to them by the system administrator. Enter a valid MET/TRACK Username and Password and click the **Login** button to log in to the MET/TRACK database and load METx2.

During the loading process, METx2 will also download the users security permissions and desktop used as it relates to MET/TRACK. This is important because these security permissions control the level of access to the MET/TRACK database.

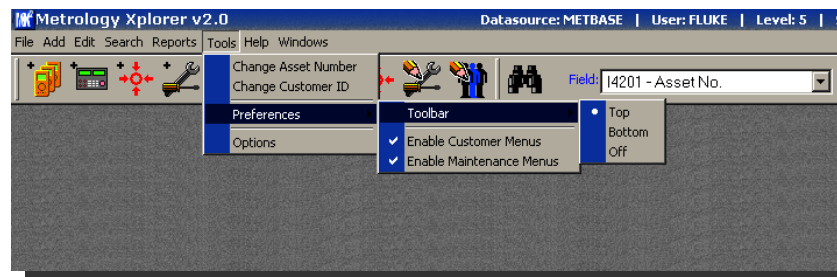
After you log in, you will see the tool bar, if it is configured to be displayed, and the users login information will be displayed in the blue title bar.



Configuring User Preferences and Options

Prior to adding any records, the User Preferences need to be addressed.

1. From the **Tools** menu, select **Preferences**.
2. Set user **Preferences** or place/remove a check mark next to the screens that will be needed to enter complete records. You can set the following Preferences:



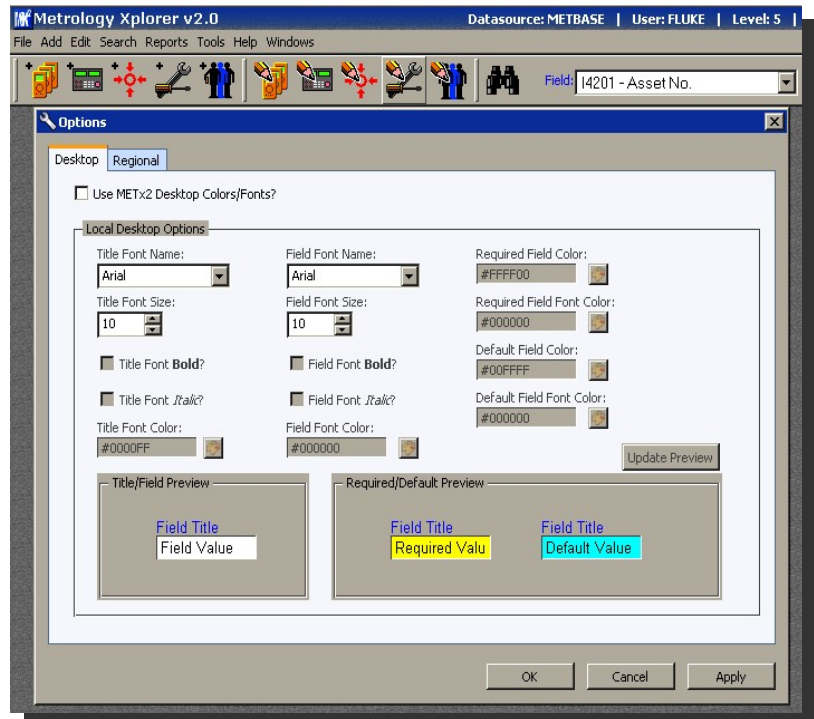
Configuring Preferences in METx2

- Position of the **Tool Bar**
- Enable Customer Menu
- Enable Maintenance Menu

You cannot suppress the Location or Search Menu at this time.



Clicking on **Options**, which is under the **Tools** menu, will allow the operator to configure a local Desktop. This local desktop feature is not available in the standard MET/TRACK application. The User can change the screens to display data and field names in different fonts and colors. Even though MET/TRACK has a Desktop function, and METx2 will use those features, several users have expressed interest in being able to adjust those settings locally. For example someone who has problems differentiating colors could change to a color that is easier to see and a special system desktop does not have to be configured. Click the "Use METx2 Desktop Colors/Fonts?" box and the user can change the settings. If the box is not checked, the METx2 uses the system desktop features.

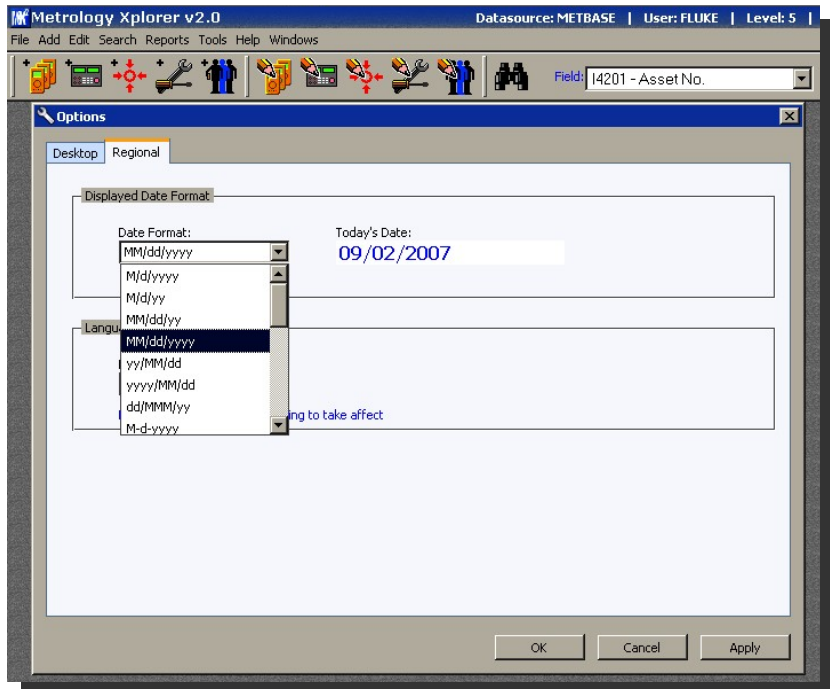


Configuring Local Desktops in METx2

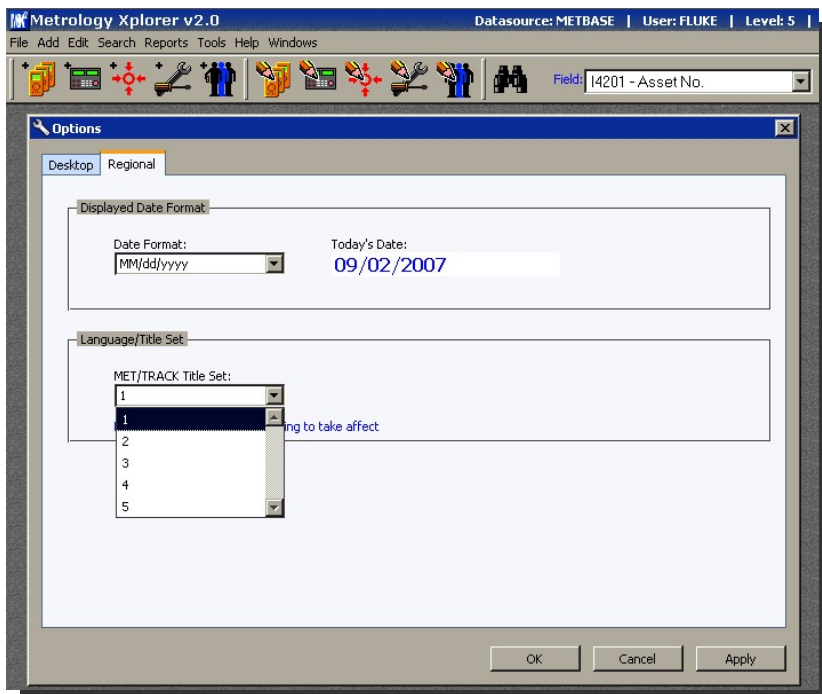


Clicking on the Regional tab will display various date formats for the operator to use. These date formats are not configured from the operating system as they are in MET/TRACK. The user can select the date format they want to use from the list in the drop down box. **Note: Do Not type in a custom format. Select from the list only.**

If you require a format that is not in the list, please contact us and we will see what we can do to help. Click the Apply button and then Click OK. The user's settings will be stored for that user ID. This means that if a user moves to another computer, then these local settings will also move.



Configuring Date Formats in METx2



Configuring Title Formats in METx2

The operator can also set the title language format. The METx2 application (for example, the Menu Bar) is displayed in English. However, MET/TRACK has a feature to configure the field titles in different languages. Current language choices are English, French, German, Italian, and Spanish. The first selection (1) is usually English. You will have to try the other selections to determine which language title that you want displayed. MET/TRACK displays languages as a system setting. METx2 displays languages as a local setting. This allows a large system that may be implemented across several countries to use a different language. Click the **Apply** button and then Click **OK**.

NOTE: Tool Tips can only be configured and displayed in one language.

Entry Tools and Screen Navigation

The Tool Bar in METx2 operates the same way as it does in MET/TRACK. Each icon has a Tool Tip that can be viewed by moving the cursor over the icon. The following is a description of the Tool Bar

Metrology Xplorer v2.0

Datasource: METBASE | User: FLUKE | Level: 5 | Segregate: MT | Desktop: DEFAULT | 3/11/2007

File Add Edit Search Reports Tools Help Windows























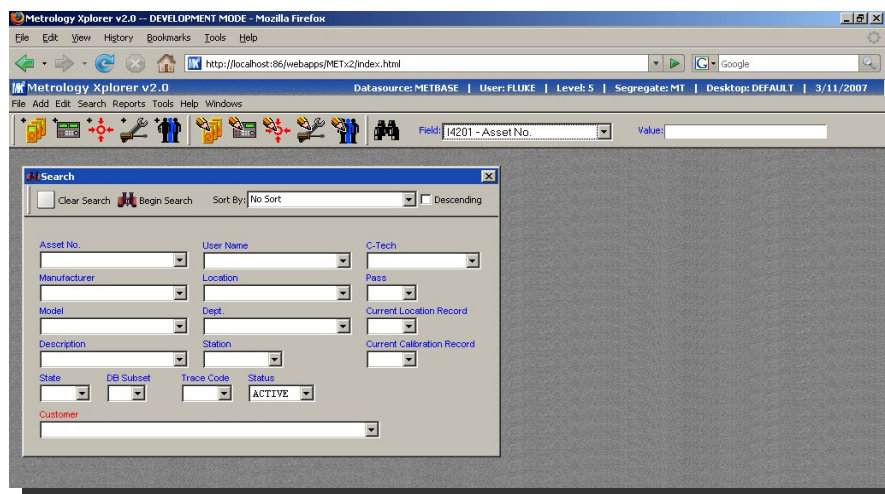
Field: I4201 - Asset No. Value:

	Add Inventory Record		Edit Inventory Record
	Add Calibration Record		Edit Calibration Record
	Add Location Record		Edit Location Record
	Add Maintenance Record		Edit Maintenance Record
	Add Customer Record		Edit Customer Record
	Search on a specific asset Field from the drop down list.		

Tool Bar Button Definitions

Searching the MET/TRACK Database

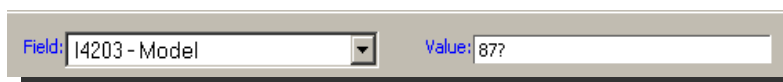
Searching the database in METx2 is almost exactly the same as searching the database in MET/TRACK. The search fields on the tool bar are defined by the search fields in the Search Screen.



When using the Search screen, be aware that METx2 does not combine searches across the different tables like MET/TRACK does. For example, we searched on Active assets and displayed 6 assets. But, if you try and combine the search with the Inventory and Calibration tables, only the criteria in the Inventory will be searched. However, you can still search on the calibration table by itself.



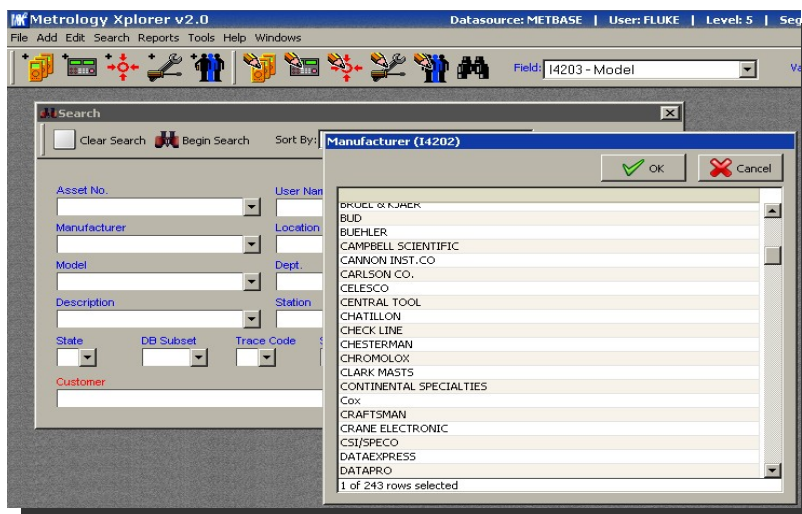
Using the Search Screen



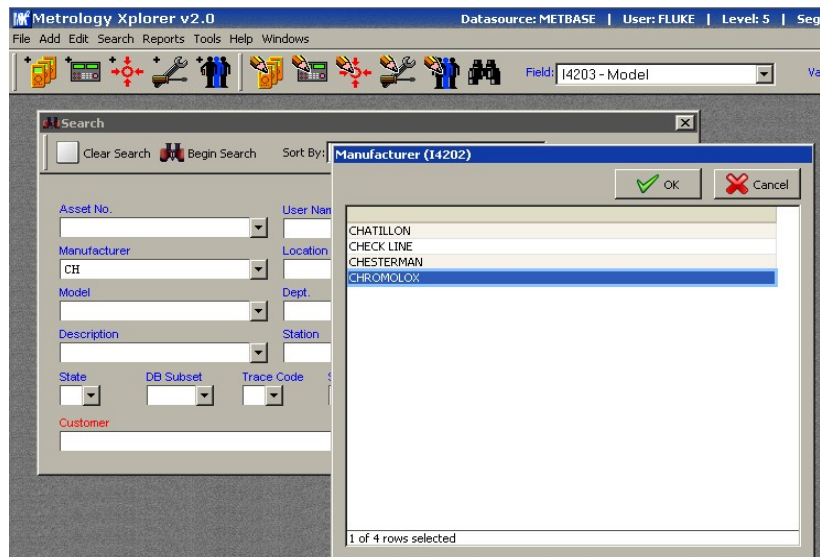
There are some differences when using search on METx2. Most customers use the quick search in the tool bar to search on a single field. MET/TRACK allows the user to select data via a drop down list from the value field in the quick search tool bar. We decided to omit this functionality due to customer complaints regarding the time it takes for the value field to populate the data from large databases. In our example above, we added the '?' wildcard character to our search for '87', and the result of our search displays all models that start with '87'



There is another search screen difference. When using the Search Screen, you can still select data from the drop down list just like MET/TRACK does and then you can scroll through the list, make the selection, and continue the search. However, since METx2 uses a web browser, keeping network bandwidth low improves performance and usability. The screen at right shows the full drop down list for manufacturers and the user can scroll through the list.



However, METx2 utilizes another method to narrow the search parameters. Using the same manufacturer search field, we type "CH" followed by the enter key. This will populate the drop down list with the manufacturers starting with CH. However, you can also add the "?" wildcard character in the search parameter. For example, we entered ?RESEARCH and the list box displayed AMP RESEARCH and RESEARCH, INC. Try out this search function and you will discover that it is very versatile.

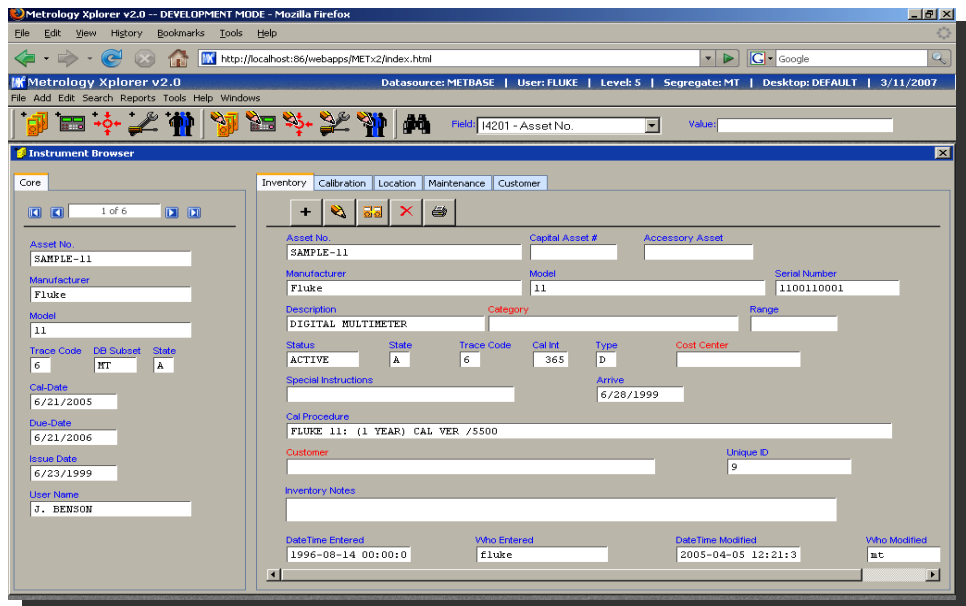


Using the Advanced Search Functions

Note: This function also works on pick lists and validated entries in the data entry screens.

After searching for Active Assets, our example Browse Screen displays 6 assets found. METx2 displays the Core Screen and Browse screen just like MET/TRACK does. You can click on the tabs to display the history records.

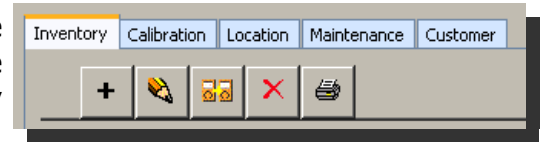
The Core screen displays critical data such as Cal Dates, Due Dates, or other information that is important to the Metrology Lab. METx2 will display the core screen just like MET/TRACK.



Typical Browse Screen Following a Search

Inventory Browse Screen

As you look at the Browse Screen you will notice that the menu bar changes as each tab section is selected. The screen at right is a snapshot of the Browse Screen Inventory Tool Bar



Add Inventory Asset



Edit Inventory Asset



Clone or Duplicate and Inventory Asset



Delete Inventory Asset



Print the Screen

When cloning an Inventory Asset, the system will prompt for a new asset number and then copy all the information from the asset that is duplicated. It is important to note that the Serial number field should also be filled in with the new information.

Be very careful when deleting an asset as this is a permanent action and the information is not retrievable. The OTS Change/Log program is available to document deletions and changes.

Adding an Inventory Record

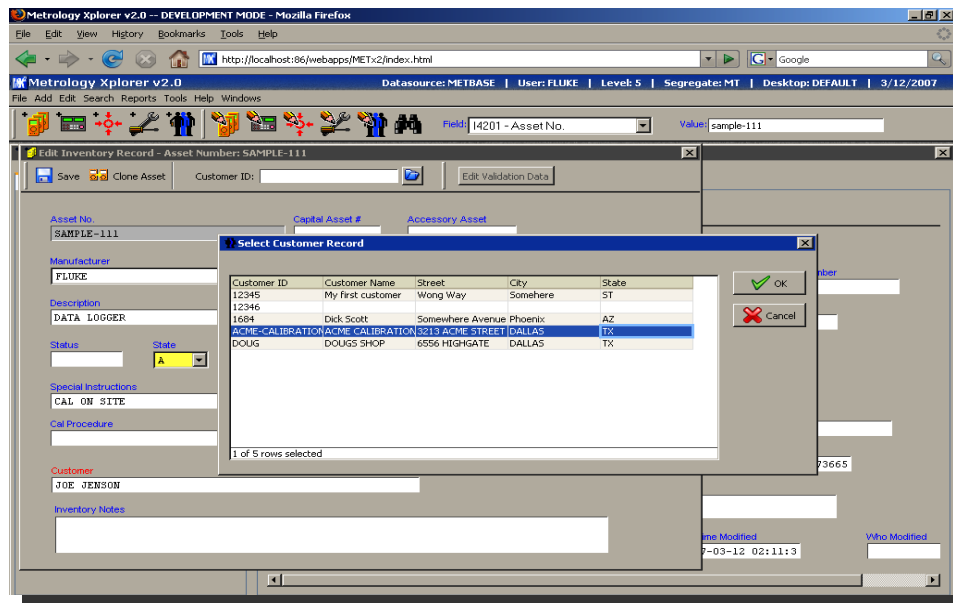
We have clicked on the Icon at right to add an inventory asset and added asset SAMPLE-111. The yellow fields are required entries. The validated fields will only accept the entries from the drop down list. The arrive date is entered using the pop up calendar. After the record has been completed, click the Save Icon. When the record has been saved, a dialog box will be displayed with confirmation.

The screenshot displays the Metrology Xplorer v2.0 web application in Mozilla Firefox. The main window shows the 'Add Inventory Record - Asset Number: SAMPLE-111' form. The form is divided into several sections with various input fields. A calendar pop-up is visible for the 'Arrive' date field, showing March 2007. The form includes fields for Asset No., Capital Asset #, Accessory Asset, Manufacturer, Model, Serial Number, Description, Category, Range, Status, State, Trace Code, Cal Int, Type, Cost Center, Special Instructions, Cal Procedure, Customer, and Inventory Notes. A sidebar on the left shows the 'Instrument Browser' with a list of assets. The top of the application shows the user is 'FLUKE' and the date is '3/12/2007'.

Mo	Tu	We	Th	Fr	Sa	Su
09	26	27	28	1	2	3
10	5	6	7	8	9	10
11	12	13	14	15	16	17
12	19	20	21	22	23	24
13	26	27	28	29	30	31
14	2	3	4	5	6	7

Entering a New Inventory Asset

Adding a Customer to an Asset



Adding a Customer to an Inventory Asset

We are going to add a customer to our asset, SAMPLE-111. First we must search for this asset in the search screen or by searching for the asset using the Tool Bar. The asset is now displayed in the instrument browser. Next we click on the icon at right to edit the inventory record. Next we click on the

Customer ID:

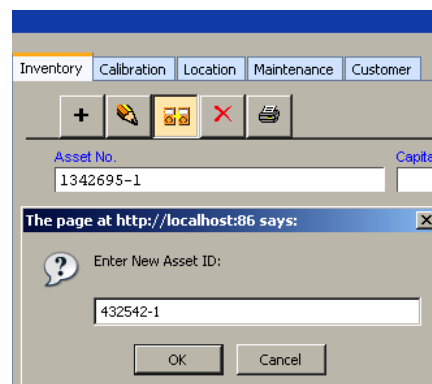
Customer ID Icon and the list of customers will be displayed.

In our example we will select ACME-CALIBRATION from the customer list and click **OK**. Next we click **Save** to save the inventory record, and the record is complete.

Cloning an Asset

Cloning an asset is a great way to add new assets when those assets are identical. For example, if you purchased 50 Fluke 87's, then entering those assets into the database would be a repetitive task. After the first asset is entered, then adding the other assets is just a matter of creating a new asset number and changing the serial number.

Cloning is very easy to implement. Browse to the asset that you want to clone (or duplicate) and click . A dialog box will be displayed prompting you to enter a new asset number. After entering the asset number, the Add Instrument screen will be displayed with the information copied from the asset that was cloned in the Browse Screen. Make sure that all the information is correct and be sure to change the serial number. When you are finished, click **Save**.



Cloning an Asset

Using Validation, Required Fields, and Merge

By default some of the fields in the **Inventory Screen**, and the various **History Screens**, are **Required**. A **Required** field must contain an entry. These fields will be a different color from the non-required fields. Fields with **Default** values are designated also by a different color. A field with a **Default** is often, but not always a required field as well. The **Default Value** is one set by the System Administrator and is usually the most logical entry for the field. The field colors and default values are set when the System Administrator creates or customizes the user **Desktops**. There can be other specially designated fields on forms. These fields usually require the user to choose an entry from a prefabricated list. These lists can be simple **Pick Lists**, which have a list of suggested, but not required values or **Required** simple **Validation** or **Linked Validation** lists.

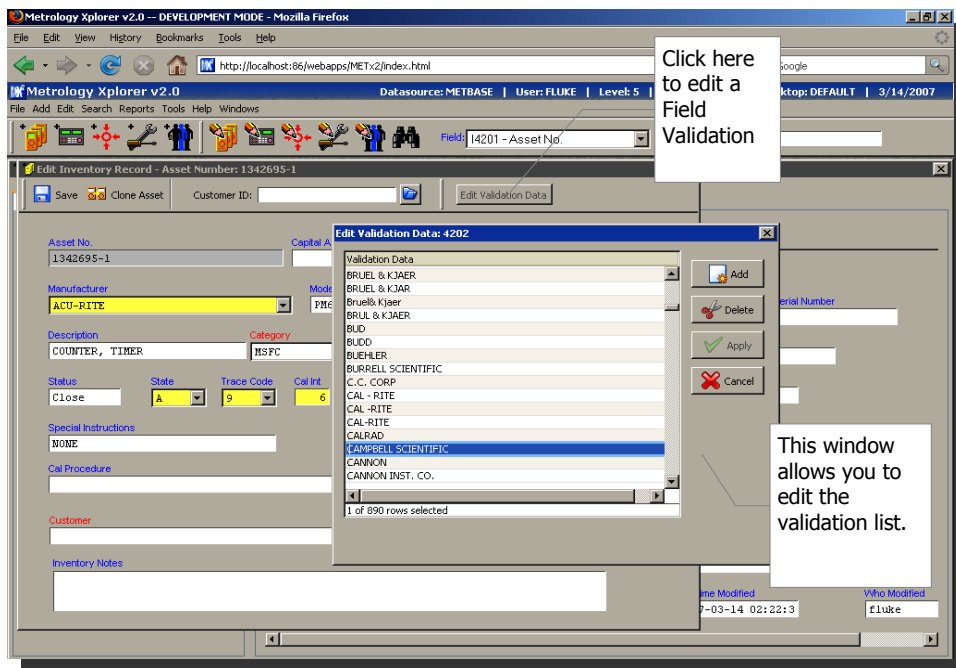
A **Pick List** is marked with a solid blue line and scroll arrow. A user can make an entry in this field that is not on the **Pick List** or choose a value from the list. Those fields that require a value from a **Required Validation** List have the field color designated for required fields and a scroll bar. These fields must contain a value that is on the **Required Validation List**. If the field is the **Root field** of a **Linked Validation** it too will look like the **Required Validation List**. The **Root Field** is the main field which determines the value of all other fields in the Link. It also requires an entry that is on the list. If marked by a dashed red line to the far right of the field, it is a **Secondary Field** in a **Linked Validation** whose value relies entirely on that of the **Root** field to which it is linked. No data can be entered directly into this field from the MET/TRACK user entry screens. A **Merge** field is also designated by a red title. This sounds like a lot of information to remember. But the use of special types of entry fields actually automates the entry process by providing lists of preselected values or default values. Their use also ensures consistent data which is much easier to manage and maintain.

Editing Validation and Merge Fields



METx2 operates just like MET/TRACK when using validated fields and required fields. However, there are some difference when using METx2 to edit Validation and Merge Data. You cannot edit Linked Validation in METx2. However, you can edit the simple validation in METx2. Simple validation means validation with just one column. If the user has permissions configured in the MET/TRACK administration program, then the user will be allowed to edit Validations and/or Merge data.

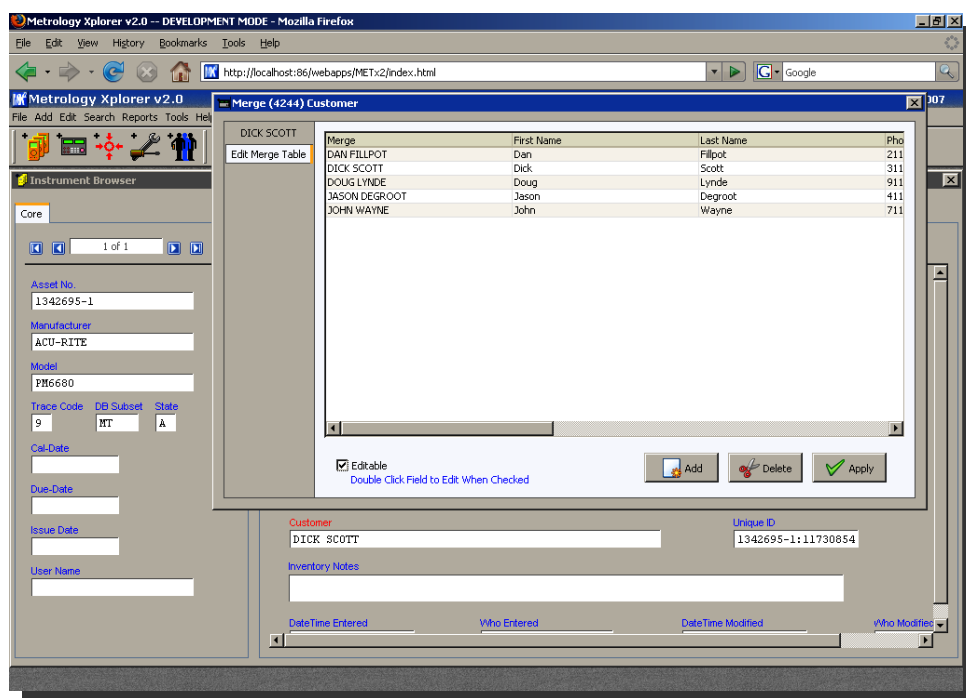
As stated earlier, Merge Data is indicated by the field title being displayed in red. If the user has the proper permissions, they can click on the actual red title and edit the merge data table. Merge tables are useful because additional information can be attached to a data field. For example, you could modify the manufacturer field in the inventory screen and create a merge table that would have information on that manufacturer such as address, phone number, contact, etc.... The following screen display illustrates how to edit simple validations and merge data if the user has the correct permissions.



Editing a Validation List

 In order to edit a validation list, you must be editing or adding a record. In the example at left, we are editing the Manufacturer field in the inventory record. We place the cursor in the Manufacturer field and click the **Edit Validations** button. A pop up window is displayed with the validation list and you can add/edit/delete the entries. Click **Apply** when editing an existing entry. Click **X** when you are finished and the changes will be saved.

 Editing a Merge Table in METx2 is much different than MET/TRACK. You do not need to be adding or editing a record in order to Add/Edit/Delete entries in the merge table. Click on the "Red" field title. A pop up window will appear. Click **Edit Merge Table** and then the merge data is displayed. In order to edit the table, you must have the proper permissions. Check the **Editable** box and now you can edit the merge table. Click **Apply** to save the changes and **X** to close the window.

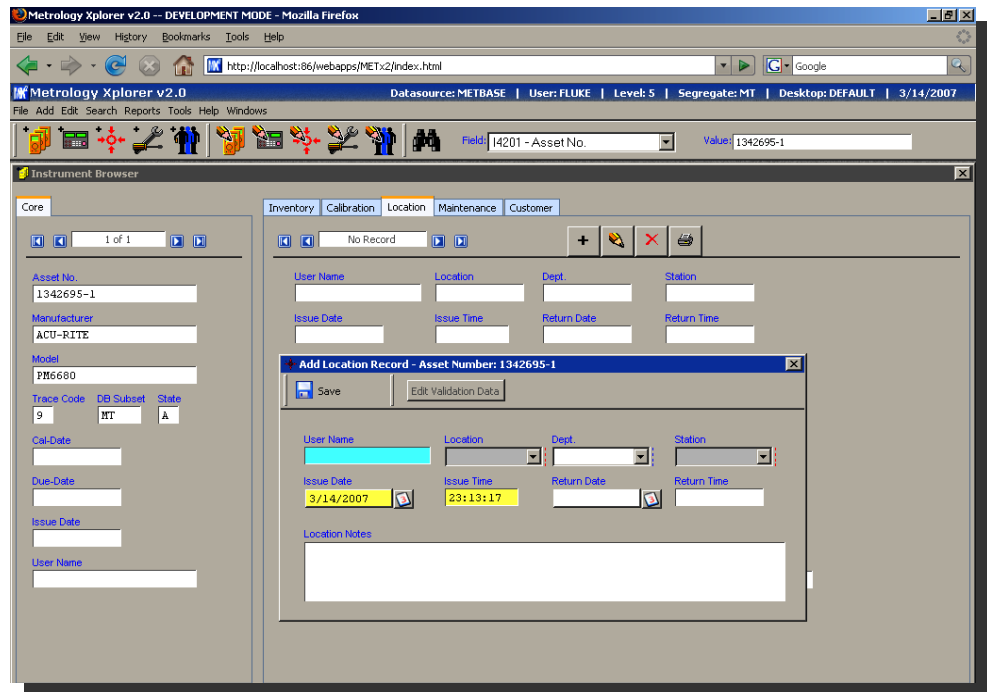


Editing a Merge Table

Adding a Location History Record

Adding History records in METx2 is very similar to MET/TRACK. Click on the appropriate history record tab (Calibration, Location, Maintenance) and then add or edit the record(s). Each history record is unique. The database has built in safeguards to help ensure that the integrity of the system is maintained. Let's create an example and add a Location Record.

In our example we have clicked on the location tab in order to create a new location record. In this example, there are no location records for this asset. The yellow fields are required entries and have date and time information automatically entered. The aqua color field, User Name, is supposed to copy data from a previous record. However, there are no previous records. The Dept field is a Linked Validation field and you will notice that the Location and Station fields are grayed out.



Creating a Location Record

After creating the location record click **Save**. A dialog box will inform you that the data has been saved and you will need to click **OK**. Notice that the Browse Screen has automatically updated the information that you just entered and it is not necessary to refresh the screen.

The same steps to create a history record also apply to the Maintenance events. Depending on how the database has been configured, the Maintenance screen will have different required fields and default values.

We have noticed that the Maintenance screens are not always used because of a lack of understanding regarding the table operation. Maintenance has a separate recall system for different maintenance events. It is possible to have several maintenance recalls for the same asset, but each recall is unique to a different maintenance type. For example, filter changes, visual inspections, and lubrications could be considered different maintenance types. This allows much flexibility within the system for preventive maintenance.

Adding a Calibration History Record

Each time an asset is calibrated, information can be gathered and entered into the database either automatically (as a direct consequence of running a MET/CAL procedure or some other application like Barcode Magician), or manually. METx2 is very similar to MET/TRACK when entering Calibration records with the exception of how standards are entered. Also, METx2 **does not** allow you to launch a MET/CAL procedure from within the web browser.

Log into the METx2 application with the appropriate security level. Click the Add Calibration icon and enter the asset number of the instrument you want to calibrate. An example entry screen is displayed at right. In our example the required fields are in yellow. Copied fields are in aqua. As you tab through the fields, METx2 will calculate the Due Date. After you fill in the fields click **Save**.

Adding a Calibration Record

Important Note: When adding a calibration record, the **Interval** and **Interval Type** must be displayed on the screen in order for METx2 to calculate the due date correctly.

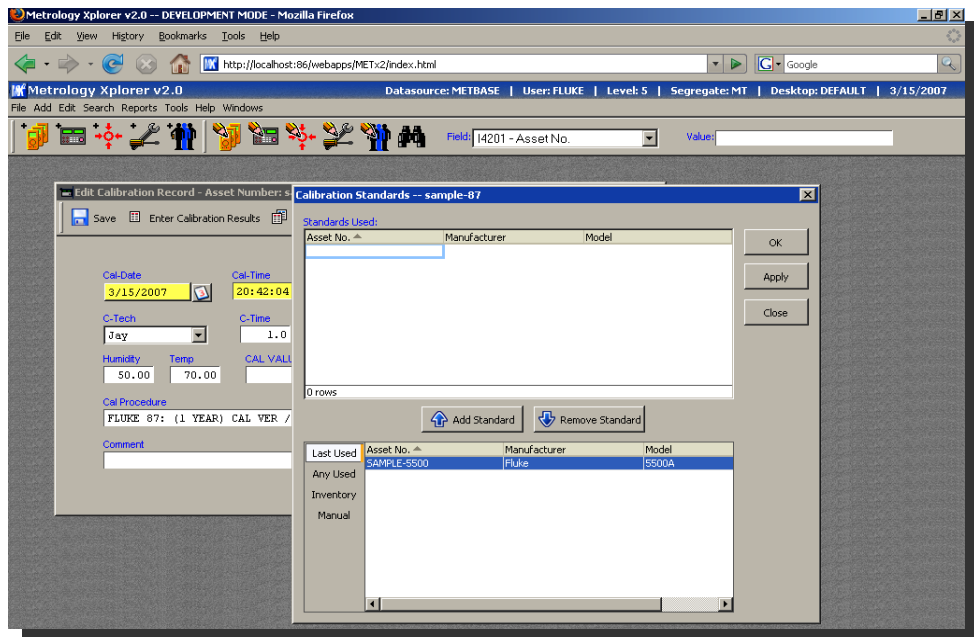
 Next we are going to enter the standards and METx2 is a little different than MET/TRACK. Instead of entering the standards on the same screen, the Standards field title can be clicked. This will open the Standards window.

Adding a Calibration Record - Prompt for Standards

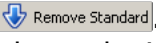
 In our example at right, the standards window is displayed and there are 5 ways to enter standards.

- Last Used
- Any Used
- Inventory
- Manual
- STD Segregate

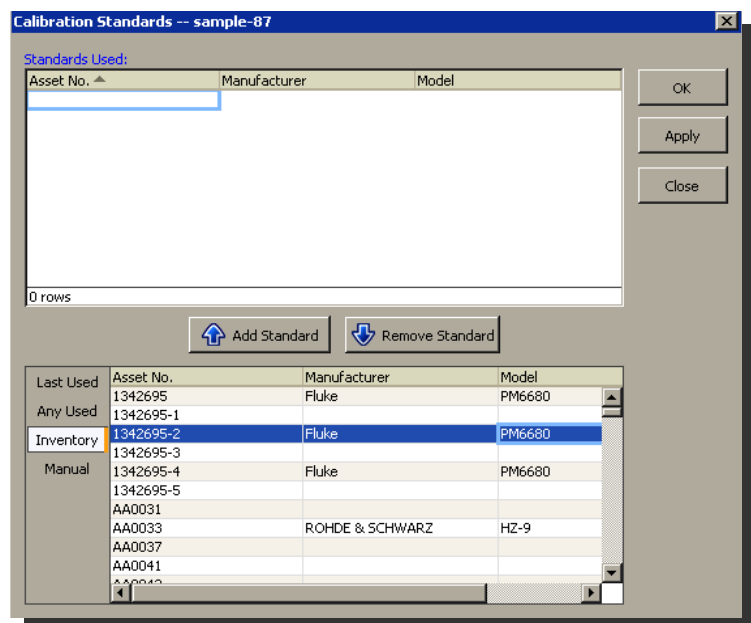
This is basically the same as MET/TRACK. In our example, we have selected Last Used. Click  and, if the standard is valid, it will be added to the top list box.



Entering Calibration Standards

If you accidentally enter the wrong standard and add it to the top list box you can remove the standard by clicking . If the standard is not valid, METx2 will display an error. For example the standard might not be in calibration. When you have added all the standards for the calibration click **Apply** and then click **OK**.

 **NOTE:** When using the Inventory method, METx2 will populate the screen with all the assets in the database. It may take some time to scroll through the list. Because of bandwidth issues, the list is not populated with the Manufacturer and Model descriptions. However, you can click on the Asset No. and METx2 will retrieve the additional information and populate the one row. This helps with performance while at the same time providing the information necessary for selecting the correct standard.



Adding Standards - Inventory Method

Measurement Results

METx2 does not allow the entry of any calibration measurement results at this time. The ability to add text information will be added in a future revision. If a MET/CAL procedure has saved measurement data, this data can be viewed by clicking . The Full Results table is displayed with all the columns, however this is read only at this time.

Adding a Repair/Maintenance History Record

The Maintenance table in MET/TRACK is often misunderstood. This table can be used for several functions such as recording repair costs/parts, a maintenance recall system, or both. It is easy to confuse the Maintenance and Calibration recall systems. Calibration only has one due date available per asset. However, Maintenance can have multiple recalls per asset. This is based on the maintenance type. For example, there could be separate recalls for periodic maintenance like filter changes, lubrication, etc. These recalls could also be on different intervals, although the operator will have to select the recall interval for a specific maintenance type when creating the record.

Log into the METx2 application with the appropriate security level. Click the Add Maintenance icon and enter the asset number of the instrument you want to calibrate.



In our example at right, we have created a maintenance record with a recall date. We have selected the "F" maintenance type. This could be something like a filter change. This change is on a 12 week interval. In our example, we have changed a filter and entered the cost in labor and parts. The next filter change is due on 7/13/2007. You could have additional records for the same asset, but using a different work type. Click **Save** when the record is complete.

Edit Maintenance Record - Asset Number:			
Main Date	Main Time	Interval	Type
4/20/2007	21:56:56	12	M
		PM DueDate	Work Type
		7/13/2007	F
Cause			
FILTER CHANGE			
Cure			
Part name	Part nbr	Cost	
FILTER	32131	23.05	

R-Technician	R-Tech's Time
Doug	1.0
Part Cost	Labor Cost
23.05	120.00
Shop	Other cost
Total Time	Total Cost
1.0	143.05

Adding a Maintenance Record

Important Note: When adding a maintenance record, the **Interval** and **Interval Type** must be displayed on the screen in order for METx2 to calculate the due date correctly.

Editing Records

Editing records in METx2 can be accomplished several ways.

- Using the hot key feature.
- Selecting the edit feature from the Menu Bar.
- Selecting the edit feature  from the Tool Bar
- Select the edit feature from the Browser Tool Bar

Inventory, Calibration, Location, Maintenance, and Customer records can be edited assuming the operator has the appropriate permissions. Different levels of access will define which records or fields can be edited. The edit icons are very similar to the add icons. Where the **Add** tools have a plus sign, the **Edit** tools have a pencil point.

When editing data, make any desired changes, by selecting the field to change and typing in the changes. If the field is grayed out, it cannot be edited by the user. The Entry and Edit (or update) permissions for each field are set by the Administrator when configuring field properties.

If the field being edited is specifically designated by a solid or dashed line, scroll arrow or red title, it is a specially configured field that may have to be edited in another way. A field with a Required Validation List, or the Root Field in a Linked Validation has a scroll down arrow. A suggested Pick List is marked with a solid blue line and scroll down arrow. If a field is marked by a dashed red line to the far right of the field, it is a member of a Linked Validation that cannot be edited by typing in the field from this edit screen. A Merge field is also designated by a red title, but no scroll bar.

Metrology Xplorer v2.0 -- DEVELOPMENT MODE - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:86/webapps/METx2/index.html

Metrology Xplorer v2.0 Datasource: METBASE | User: FLUKE | Level: 5 | Segregate: MT | Desktop: DEFAULT | 3/16/2007

File Add Edit Search Reports Tools Help Windows

Field: I4201 - Asset No. Value: ?

Instrument Browser

Core

1 of 943

Asset No. 1342695-1

Manufacturer 5765765

Model PM6680

Trace Code DB Subset State

9 MT A

Cal-Date 3/14/2007

Due-Date 9/14/2007

Issue Date 3/14/2007

User Name JIM JONES

Inventory Calibration Location Maintenance Customer

1 of 1

Cal-Date 3/14/2007 Cal-Time 23:40:58 Interval 6 Type M Pass Y Due-Date 9/14/2007

C-Tech Doug C-Time Reliability 1 FoundLeft FOUND-LEFT

Humidity 65.00 Temp 65.00 CAL VALUE

Cal Procedure Rev

Comment

Cal Unique ID 1342695-1:1173915658

DateTime Entered 2007-03-14 23:43:5 Who Entered fluke DateTime Modified 2007-03-14 23:43:5 Who Modified

The Browse Screens

When the **Browse Screen** is displayed, it is divided into sections. The **Core** section displays the vital statistics of the asset. The tabbed sections will display **Inventory** data, **Calibration** data and **Location** data when selected. All of the sections of the **Browse Screen** can be individually customized by the System Administrator. Fields can be added or suppressed. Field Headings, Font type and field lengths can be changed. Screens should be customized to meet the requirements of each different company. The **Inventory** data is unique for each asset. The **Calibration** and **Location** data is historic and since it changes with each event, a new record is created each time. For this reason the Calibration and Location Screens have back and forward arrows to make finding a specific record easier.

METROLOGY XPLOER 2 Users Manual

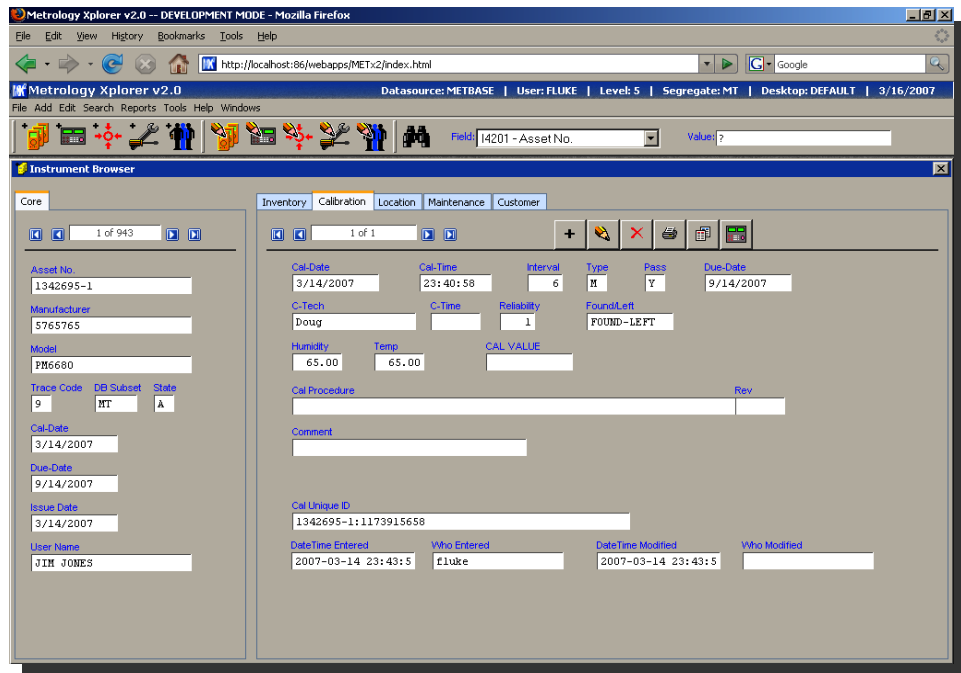
METDaemon Build 253

ON TIME SUPPORT, INC.

The following figure is the **Calibration Browse Screen**. The Tool Bar functions allow records to be added, edited, and deleted from the **Browse Screen**.

Calibration Browse Screen

When a search is performed in METx2, the Browse Screen will be displayed similar to the one at right. In our example, we clicked on the Calibration Tab. You can use the record selector  1 of 1 . One selector is used to scroll through the assets displayed in the core screen and another selector is used to scroll through history records. Each browse screen has a Tool Bar configured for a particular screen. We have already described the inventory operation.



Calibration Browse Screen



The Calibration Browse Screen icons work differently than they do in MET/TRACK. At this time the Measurement Results Icon is only available for the Full Results. The old style text results are not available at this time.



Add a New Calibration Record



Edit an existing Calibration Record



Delete the Calibration Record



Print the screen



View the Full Results Measurements



View the Calibration Standards

Editing a Record from the Browse Screen

1. Locate an asset using the **Search** engine. As mentioned earlier, the types of screens available for editing with the **Instrument Browser** are seen as tabs on the **Browse Screen**.
2. Select the Calibration tab and select the calibration history to be edited.
3. Select **Edit** from the Tool  Bar . The **Edit Calibration** screen will display. Make any desired changes, by selecting the field to change and entering the changes.
4. When the changes are complete, Save the record.

Deleting a Calibration Record

WARNING! Deleting a calibration irretrievably removes information from the database.

Only level 4 and 5 operators can delete records from the database. To delete a calibration event, view it on the **Calibration Form** and click the  **Delete** button.

Deleting an Asset

WARNING! Deleting an asset irretrievably removes information from the database.

Only level 4 and 5 operators can purge records from the database. It is not possible to purge an asset that is used as a standard. To purge an asset, view it on the **Inventory** form and click the  **Delete** button. If the asset you want to remove from the system has been used as a standard for the calibration of another instrument, then the application will not permit purging the asset.

Changing an Asset Number

From time to time an asset is created with a non-conforming, or simply incorrect number. Possibly the asset numbering system within a company has changed. The Asset Number entered when an initial record is created follows the instrument always, through each event. Changing the Asset Number in the Inventory record will not affect any linked history records since they are linked by their MTAGs that never change. For this reason a tool was created to simplify the process. The Change Asset Number tool ensures that all history reflects the Asset Number change.

1. From the **Tools** menu select **Change Asset Number**. Type in the asset number being changed, or select it from the list by clicking on the scroll down arrow with the mouse. The asset list also shows the Manufacturer and Model number for confirmation that the right asset is being selected.
2. Type in the new asset number and click **OK**. A confirmation dialog box will appear. Click **OK** to make changes or **Cancel** to stop the process.

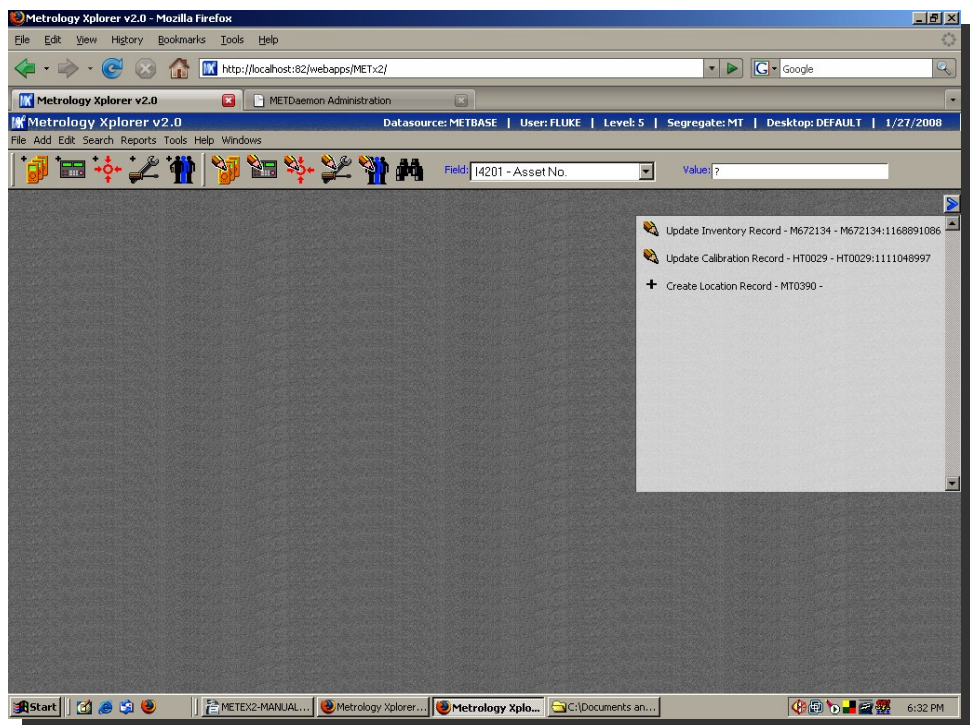
Using the Session Tracking Feature



The session tracking feature is unique to METx2 and is not available in MET/TRACK. This feature is a quick indicator of what has been edited or added when logged into a METx2 session. This is not a permanent record and the indicator will reset when a new METx2 session is started. However, it does provide the operator with a quick look at the assets that have been modified or added. If a permanent record is necessary, then the customer should obtain Change/Log which provides an audit trail for records that have been edited or deleted.

The screen at right illustrates the use of the session tracking feature. The  icon will display information for assets that have been edited or added. This is not a detailed list of the fields that are modified, but just the asset numbers. Clicking the  icon will close the session tracking window.

Note: The   icons will toggle between displaying the window and closing it.



Using the Session Tracking Feature

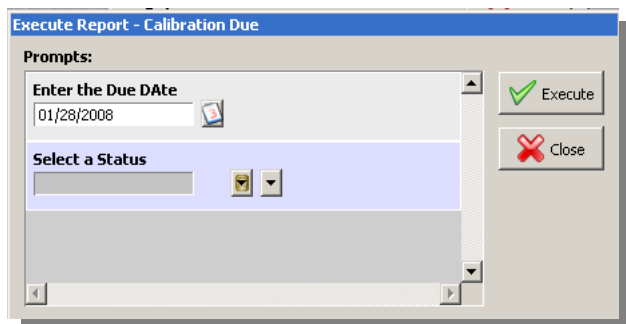
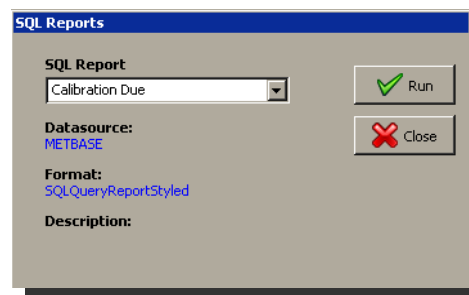
Running Database Reports

METx2 supports SQL Reports with custom prompts and Crystal Reports. The SQL reports are created and saved in METDaemon Administration. The same reports can be used for Email Notification.

Note: there is a setting for each report that determines whether the report can be displayed in Metrology Xplorer 2.

SQL Reports

From the METx2 menu bar, select Reports\SQL Reports. A Dialog box like the one at right is displayed. Select the report to run from the drop down list and click **Run**.



The dialog box will be displayed with prompts. In the example, there is a prompt for the future due date and a prompt for the status. It is possible to have a database validation prompt and a custom prompt. Normally this would not occur in a real report, but we have displayed both prompts as an example. The two drop down icons are shown at left. Prompts can be dates, numbers, and strings (Alphanumerics).

When selecting Execute, the report will run and open another browser window.

i4201	i4202	i4203	i4204	i4206	i4299	Due Date
SAMPLE-742-1	Fluke	742-1	1 OHM RESISTANCE STD	742010001	A	03/29/1999
SAMPLE-732	Fluke	732	DC REFERENCE STD	732000001	A	07/21/2004
SAMPLE-8842	Fluke	8842	DMM	884200987	A	06/21/2006

Total Number of Records for this Report: 3

Example Report Output

SQL Reports with Prompts

SQL reports with prompts provides additional flexibility for METx2. The prompts have several possible configurations.

One advantage of SQL reports is that they can be created very quickly. The system administrator should decide what reports are required for METx2. Here are some considerations:

- The SQL Reports are mainly suited for creating simple lists. SQL reports do not separate information into groups, although information can be sorted.
- Reports and users can be grouped for selected access.
- Prompts can use database validation or custom validation.
- Prompts can contain dates, numbers, and strings (alphanumerics).
- The same prompts can be used on multiple reports.
- Reports for METx2 do not support the Dynamic Report function used in Email Notification.
- Prompts are not used in Email Notification reports.

There are two steps when creating SQL Reports for METx2:

- Determine the type of necessary prompts.
- Create the SQL script for the report.

The SQL reports are created using the METDaemon Administration program. Please refer to the METDaemon documentation for details and examples.

Crystal Reports

Crystal Reports must be created using the Crystal Reports Editor, and each report needs to be added to a report group in the METDaemon Administration program. Please refer to the METDaemon documentation for detailed instructions on adding Crystal Reports to METDaemon.

In the METx2 menu, select Reports\Crystal Reports. This will show a list of available reports for the current user. Similar to the following:

The screenshot shows the 'Crystal Reports' window with a tree view of report categories: Calibration, Customers, General, Inventory, Location, Repair, and Test. Under 'Test', several reports are listed: 1.rpt, 1A.rpt, 23.rpt, CALDUEL90.rpt, and CALDUEL90.rpt. A 'Run' button with a green checkmark and a 'Close' button with a red X are on the right. A callout bubble labeled 'Date Picker' points to the 'Run' button. Another callout bubble labeled 'Database Validation' points to the 'Run' button. A third callout bubble labeled 'Custom Validation' points to the 'Run' button. Below the 'Crystal Reports' window, a text box says 'If parameters are required'. To the right, a text box says 'Select a report, then click "Run" to launch the Crystal Report in a new browser window.' Below this, a text box says 'configured in the report, a prompt screen will allow the entry of any information.' Below the text boxes, a screenshot of a parameter validation prompt is shown. The prompt has a title bar 'Crystal Reports - Mozilla f...' and a URL bar 'http://localhost/RunCrystalReport...'. It contains a 'Print Page' button and a 'Close Report' button. The main content area has a section 'Parameter Field(s)' with two fields: 'start date' and 'end date'. Each field has a text input area and a 'Discrete Value' button. A calendar widget is overlaid on the 'start date' field, showing the month of May 2011. The calendar has a header with days of the week (Su, Mo, Tu, We, Th, Fr, Sa) and a grid of dates (1-31). An 'OK' button is at the bottom of the calendar.

Date Picker

Database Validation

Select a report, then click "Run" to launch the Crystal Report in a new browser window.

If parameters are required

configured in the report, a prompt screen will allow the entry of any information.

Custom Validation

Export Format: PDF Print Range From: To: Export Print Page Close Report

The report you requested requires further information.

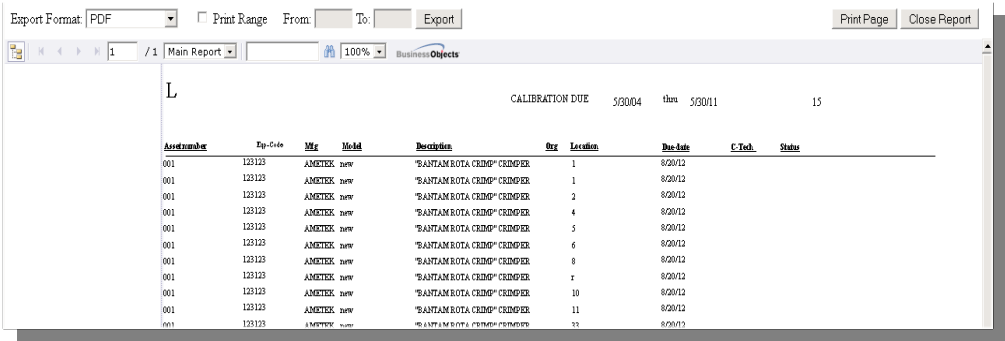
Parameter Field(s)

start date
Enter beginning date as -> mm/dd/yyyy Calib. due list (MT-calib)
Please enter date parameter in format "Date(yyyy,mm,dd)".
Discrete Value

end date
Enter ending date as -> mm/dd/yyyy Calib. due list (MT-calib)
Please enter date parameter in format "Date(yyyy,mm,dd)".
Discrete Value

OK

Select "OK" after filling in the prompt values.



When finished viewing or exporting the report, click the "Close Report" button

Exporting Crystal Reports

METx2 supports exporting crystal reports to PDF, CSV, and Crystal Report file formats.

In the top left portion of the report select the required "Export Format". If desired, you may select an export range by clicking the "Print Range" check box, then entering a "From" and "To" value. Click the "Export" button to begin the export process.

PDF exports will attempt to open in a new browser window, while CSV files will prompt to save.

The "Print Page" button will print the page directly, without exporting first.

Navigating a Crystal Report

The Crystal Viewer has a built in tool bar for paging, searching and zooming a report.



Misc.

METx2 Hot Keys

Adding Records

Ctrl+F2	Add Inventory
Ctrl+F3	Add Calibration
Ctrl+F4	Add Location
Ctrl+F5	Add Maintenance

Ctrl+F6 Add Customer

Editing Records

Shift+F2 Edit Inventory
Shift+F3 Edit Calibration
Shift+F4 Edit Location
Shift+F5 Edit Maintenance/ Repair
Shift+F6 Edit Customer

General Functions

Ctrl+D Select a new desktop
Ctrl+Shift+S Search
Ctrl+Shift+Q Run SQL Reports

How to Configure the Browser to Run Longer on Scripts

When using the Firefox browser, there are times a timeout may occur because a script has not completed execution. You can adjust the Browser's timeout setting using the following methods

Mozilla Firefox

To reduce future timeout issues, try the following procedure:

1. In the address bar of a Firefox browser window, enter **about:config**
2. In the "filter" bar, enter **dom.max_script_run_time**
3. You should now be able to see a setting appear in the window below the filter bar. The setting's name should match what you entered above (dom.max_script_run_time) and most likely shows a default value of 5.
4. Double-click this setting; Firefox will prompt you for a new value. Enter 10.

If changing this setting still causes the "Unresponsive script" dialog to re-appear, repeat the above procedure but increase the number that you enter in step #4.

Internet Explorer 7

Using Metrology Xplorer 2 with large databases may cause a script timeout error. The following procedure was acquired from Microsoft's article 175500 - How to set time-out period for script.

If you encounter a script timeout error with IE7, you can change the timeout value by adding a key to the local registry on the computer that is having the problem.

Important: This article contains information about how to modify the registry. Make sure to back up the registry before you modify it. Make sure that you know how to restore the registry if a problem occurs. For more information about how to back up, restore, and modify the registry, click the following article number to view the article in the Microsoft Knowledge Base:

256986 (<http://support.microsoft.com/kb/256986/>) Description of the Microsoft Windows registry

Because some scripts may take an excessive amount of time to run, Internet Explorer prompts the user to decide whether they would like to continue running the slow script. Some tests and benchmarks may use scripts that take a long time to run and may want to increase the amount of time before the message box appears. In Internet Explorer, the script time-out value can be changed on specific client machines by modifying a registry entry.

MORE INFORMATION

There are situations when a Web page contains script that takes an unusually long time to run. If you perform a large database query, this will often cause a significantly long delay. Internet Explorer detects the long delay and prompts the user with a dialog box reading the following:

"A script on this page is causing Internet Explorer to run slowly. If it continues to run, your computer may become unresponsive. Do you want to abort the script?"

Internet Explorer tracks the total number of executed script statements for the current page with the script engine and throws up the time-out dialog box when that value hits a threshold amount.

NOTE: Serious problems might occur if you modify the registry incorrectly by using Registry Editor or by using another method. These problems might require that you reinstall your operating system. Microsoft or On Time Support cannot guarantee that these problems can be solved. Modify the registry at your own risk.

NOTE: You must have local administrator access to modify the registry.

To change this time-out value in Internet Explorer 7, follow these steps:

1. Using a Registry Editor such as Regedt32.exe, open this key:

HKEY_CURRENT_USER\Software\Microsoft\InternetExplorer\Styles

Note If the Styles key is not present, create a new key that is called Styles.

2. Create a new DWORD value called "MaxScriptStatements" under this key and set the value to the desired number of script statements.

By default the key doesn't exist. If the key has not been added, Internet Explorer 7 defaults to 5,000,000 statements executed as the trigger for the time-out dialog box. Try setting the value at 10,000,000 statements.

On Time Support is available to provide support and help.