

METDaemon Operations Manual

METDaemon Operations Manual

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Introduction

METDaemon(TM) is the name given to an *Application Server* provided by On Time Support that serves as the foundation for a variety of products offered by OTS. This application server is a software package that is designed to execute on the server hosting the metrology database, and accepts connections from a variety of (configurable) sources and provides data from the metrology database to those sources.

METDaemon itself is not a product offering by On time Support, rather, it is a PLATFORM - one that enables OTS applications to operate. As such, you will find terms in this manual that relate to "packages" and/or "services". These terms describe actual PRODUCTS that perform functions and enhance your metrology database; these products are enabled by METDaemon.

Some administrative functions that are common between products are described in this manual, as well as functions that are necessary to enable the application server (METDaemon) to operate properly. If you are searching for information regarding administration of a METDaemon-enabled product, you may need to reference the appropriate product manual as well.

Chapter 1. Preparation For Installation

Software/Hardware Requirements for Proper Operation

Microsoft Windows

- Intel x86 Processor or equivalent
- Microsoft® Windows 98 Second Edition, Windows NT® 4.0 with Service Pack 6, Windows 2000 Professional with Service Pack 2 or above, Windows XP Professional or Home Edition
- 256MB of RAM (512MB+ recommended)
- Internet Explorer 6+, Mozilla 1.6+, Mozilla Firebird 1.0+, or Netscape 7.1 or above

Obtaining the Software/Updates

As new versions of METDaemon become available, they will be made available for download at <http://www.ontimesupport.com>, or a CD-ROM containing the latest releases of all products (but not licenses) may be obtained by contacting On Time Support at:

On Time Support, Inc.
25132 Oakhurst Dr.
Spring, TX 77386
PH: 281-296-6066
FAX: 281-465-9478
sales@ontimesupport.com
support@ontimesupport.com

Chapter 2. Installing the Software

First Time installation

Microsoft Windows

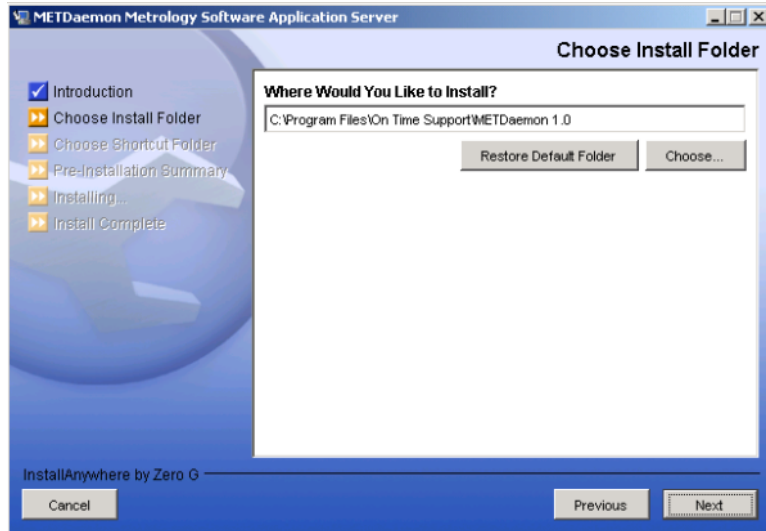
Installing from CD: Insert the METDaemon Installation CD into your CD-ROM drive, the installation should start automatically. If installation does not start automatically, select "Start", then "Run" and type "D:\win\metdaemon_i386_install.exe". Replace "D:\\" with your CD-ROM drive letter, if different. Now press Return/Enter or select "OK".

Download Installation: Open the folder where you saved the METDaemon installation program and double-click the file or select the file(single-click) and press Return/Enter on your keyboard.

Installation should now be started and the next few screens will guide you through the installation:



Read the introduction, then select "Next".



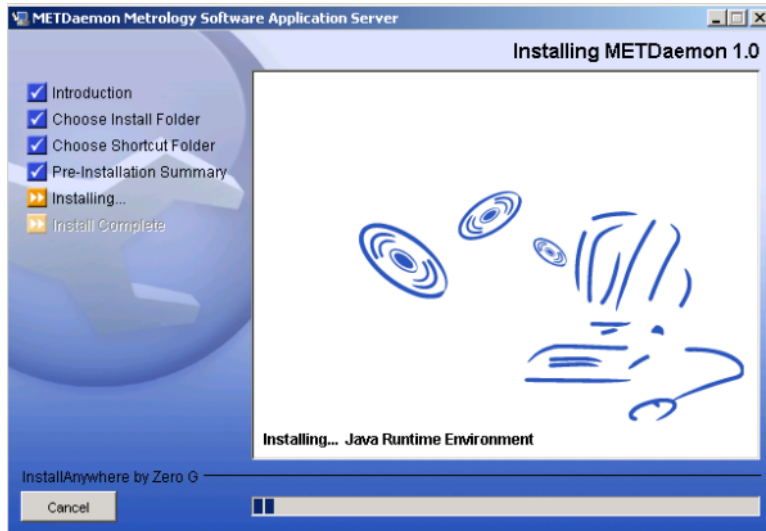
Choose installation folder. This can be any folder on a local drive, but using the default location is recommended. When you are finished, select "Next".



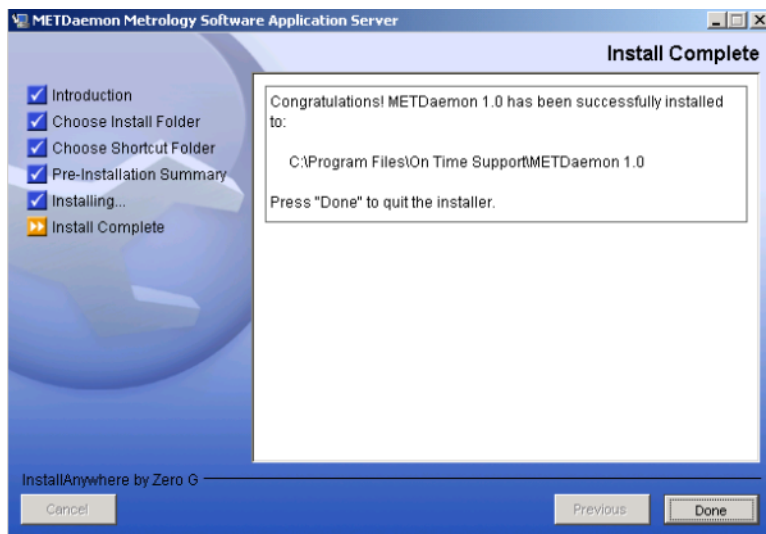
Choose shortcut folder. There are many shortcut options on this page, but using the default is recommended. When you are finished, select "Next".



Pre-installation Summary. This screen allows you to review the selections you have made for installation. If you are satisfied with your choices, select "Install".



Installation will now begin and may take several minutes. Watch the progress bar to monitor the installation.



Congratulations! Installation is complete. Select "Done" to quit the installer.

Upgrading from a Previous Release

All Operating Systems

Before attempting to perform a software upgrade, first check the release notes provided for the new version to determine if there are any special considerations or changes that have been made that may affect operation with your particular installation. Such changes may be depreciation of support for a particular version of an On Time Support product, protocol changes, or increased system requirements.

Microsoft Windows

If you are running METDaemon as a service, then use the service manager to stop the METDaemon service. If you are running METDaemon as a console application, then close the application window.

It is recommended to archive the contents of the previous installation by copying all files from the installation directory to another directory, or using an archiving/backup application to archive these files.

Execute the installation as described previously (under First Time Installation). The installation process will detect the presence of a previous installation and upgrade files as necessary.

After the installation routine has completed, you may restart METDaemon. Refer to updated release notes for any changes to the startup procedures that may have been made since the release of the version you were using.

Transferring Software to a New Computer

Transferring Between Similar Operating Systems With Similar Filesystems

Before transferring files, It is recommended to perform the first-time installation procedure on the new computer. By performing this step, necessary files and operating system specific modifications are handled properly. After the installation procedure has completed, copy the following files from the installation directory on the "old" computer to the installation directory on the "new" computer:

- datasources.xml (Datasource configuration file)
- dstructures.xml (Database Table Linking Information)
- languages.xml (List of supported languages)
- licenses.xml (List of installed licenses)
- parameters.xml (Operational parameters and configuration)
- phrases.xml (Localised phrases)
- reports.xml (Report configuration)
- rformats.xml (Report Format configuration)
- tasks.xml (Scheduled tasks configuration)
- topics.xml (Online help information)
- users.xml (User and administrator account information)

Since the filesystems are similar, no changes should be required for path/filename specifications.

Transferring Between Different Operating Systems With Different Filesystems

Before transferring files, It is recommended to perform the first-time installation procedure on the new computer. By performing this step, necessary files and operating system specific modifications are handled properly. After the installation procedure has completed, copy the following files from the installation directory on the "old" computer to the installation directory on the "new" computer:

- datasources.xml (Datasource configuration file)
- dstructures.xml (Database Table Linking Information)
- languages.xml (List of supported languages)
- licenses.xml (List of installed licenses)
- parameters.xml (Operational parameters and configuration)
- phrases.xml (Localised phrases)
- reports.xml (Report configuration)
- rformats.xml (Report Format configuration)
- tasks.xml (Scheduled tasks configuration)
- topics.xml (Online help information)
- users.xml (User and administrator account information)

With different filesystems, you may have to make manual changes to the file "parameters.xml" to update

references that may exist to files/directories. Open "parameters.xml" in a text editor, and verify that any references to files or directories are specified correctly. Some changes that you may notice are different path separators (UNIX = "/", Windows = "\"), drive specification (UNIX = mount points, Windows = drive letters), and so on. Make any necessary changes before starting METDaemon.

Overview of Installed Components

This section describes the various components that will be installed onto the computer. You will find details on components that are installed for every operating system, as well as specific components that are installed for particular operating systems.

It is recommended that after installation, you refer to this section to verify that all components were installed correctly. You may also reference this section if the software is not performing properly and you suspect the problem is due to missing components.

All Operating Systems

The installation procedures provided in this document will place the following components onto the target server: (components are installed into the target directory specified during installation; component subdirectories are listed in parenthesis)

- Initial XML configuration files
- METDaemon.jar
- Java Runtime Environment (/jre)
- Logging directory (/service_logs)

Some XML configuration files are automatically created with default values on first-time startup of METDaemon. These configuration files are located in the installation directory.

Microsoft Windows

There are several specific components that are installed for the Microsoft Windows family of operating systems. These components are:

- Service Installation/Removal batch files
- Java Service support components
- jservice component support directory (/jservice)
- Windows Installer uninstaller components directory (/UninstallerData)

The service installation/removal batch files are used to install/remove METDaemon as a native Windows service. If you double-click on these files in Windows Explorer, they will perform the action represented by the filename. For example, to install METDaemon as a system service, double-click (to execute) "InstallService.bat".

The Windows Service functionality is provided by *JavaService*. The components of *JavaService* are installed both in the installation and the "jservice" subdirectory.

The "UninstallerData" directory contains the components necessary for removal of METDaemon and support components if desired. The application may be uninstalled using the "Add/Remove Programs" functionality of the Microsoft Windows family of operating systems..

Chapter 3. Using the Application

Introduction/Basic Concepts

METDaemon is a *platform* for other software products that actually provide services for your metrology database. As a platform, METDaemon enables other applications to communicate with each other, access metrology database, send email, and so on. These applications built on METDaemon are referred to as *packages*. A package is administered within METDaemon, using the same web browser interface described in this manual.

Packages may utilize functions/features of METDaemon that are common. For this reason, some functions of a specific package may require you to refer to a section in this manual for more details. Keep in mind that when you make changes to administrative functions mentioned in this manual, that these changes affect all packages that are licensed on the system.

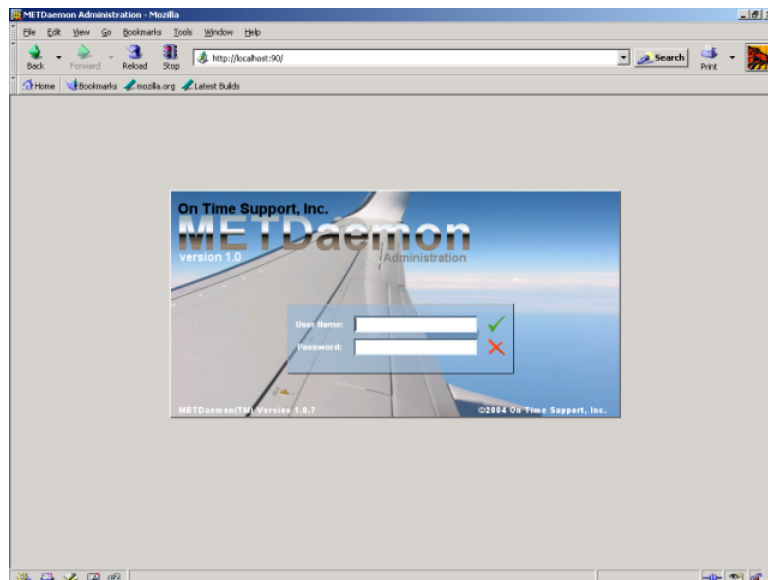
If you need to administrate a particular package, then you should refer to the manual supplied with that software package, but keep this manual handy (or in the same binder) in case you need a cross-reference.

Administration

Administration of METDaemon is done through a web-based interface, which means administration can be handled from any computer with network access and a web browser. When accessing METDaemon Administration you can use either the server IP address or server hostname. The default port for METDaemon Administration is port 90, but this can be changed in "parameters.xml" if necessary. So, to access METDaemon Administration using a browser you would enter: **http://<server>:90** for the URL.

An example would be if you are working on the same computer that METDaemon is running on, the URL would be (using hostname) **http://localhost:90** or (using IP address) **http://127.0.0.1:90**

After METDaemon Administration loads, you will see the following screen that will allow you to log in and administer METDaemon:



Logging In


Initially, METDaemon starts with default log-in credentials for administration.


Important

Please CHANGE THE ADMIN PASSWORD the FIRST time you log in.(refer to "Editing a System Administrator")

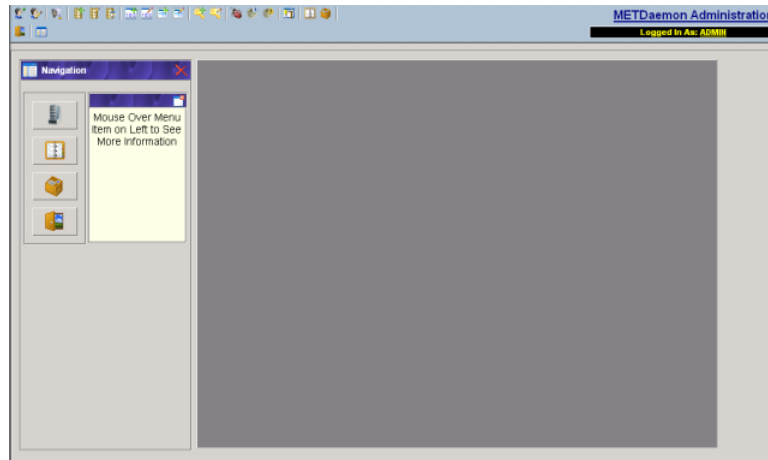
For the user name field enter "admin"(without the quotes). Then enter "metdaemon"(without the quotes) for the password field.

A screenshot of a login form with two input fields. The top field is labeled 'User Name:' and has a green checkmark to its right. The bottom field is labeled 'Password:' and has a red X to its right.

Selecting the "Reset Login Form"  button will clear the values for the User Name and Password fields.

After completing the User Name and Password fields, select the "Submit Login Form"  button or press the Enter/Return key on the keyboard.

If the login credentials you supplied were valid, you will now be logged in and presented with the following screen:



This is the main METDaemon Administration screen and all operations start here.


Navigating the Application

The 3 parts of the screen above are:


1. *Quick-Link "toolbar"*: This *toolbar* can be used to perform all METDaemon Administration operations.




The following is a list of toolbar buttons and their actions:

-  *Add System Administrator*

Add System Administrator is used to add a new METDaemon Administrator to the system.

-  *Edit System Administrator*

Edit System Administrator is used to edit and delete an existing METDaemon Administrator.

-  *Network Configuration*

Network Configuration is used to configure your networks' SMTP Relay Address and the Originator Email Address.

-  *Add Datasource*

Add Datasource is used to configure a new Datasource for database connectivity.

-  *Edit Datasource*

Edit Datasource is used to edit and delete an existing Datasource.

-  *Column Aliasing*

Column Aliasing is used to configure column aliases.

-  *Add Report*

Add Report is used to add a new report(SQL Report only, at this time)j to the system.

-  *Edit Report*

Edit Report is used to edit a report that has already been created.

-  *Add Report Format*

Add Report Format is used to add a new report format to the system.

-  *Edit Report Format*

Edit Report Format is used to edit a report format that has already been created.

-  *Add License*

Add License is used to add a new product license to the system.

-  *Edit License*

Edit License is used to edit a license already installed in the system.

-  *Update Licenses*

Update Licenses is used to automatically update licenses already installed in the system, as well as license/s that have been purchased but not yet installed.

-  *Exception Log*

Exception Log is used to view any system errors that have occurred.

-  *Task Status*

Task Status is used to view the status of created tasks. This includes Email Notification tasks.

-  *Task Warnings*


Task Warnings is used to view any task warnings associated with any created task, including Email Notification Tasks.

-  *Support Options*

Support Options is used to set METDaemon support options, including the automatic sending of errors and warnings, and automatic download and installation of METDaemon updates.

-  *System Profile*


System Profile is used to enter information about your System Administrator, Lab Manager, and company and/or lab.

-  *Configure Installed Packages*

Configure Installed Packages is used to configure any add-on packages that have been installed. (ex. This is where the configuration of Email Notification would be handled.)

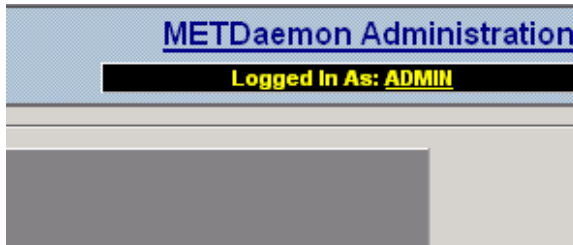
-  *Toggle Navigation Menu*

Toggle Navigation Menu is used to hide or show the left navigation menu.

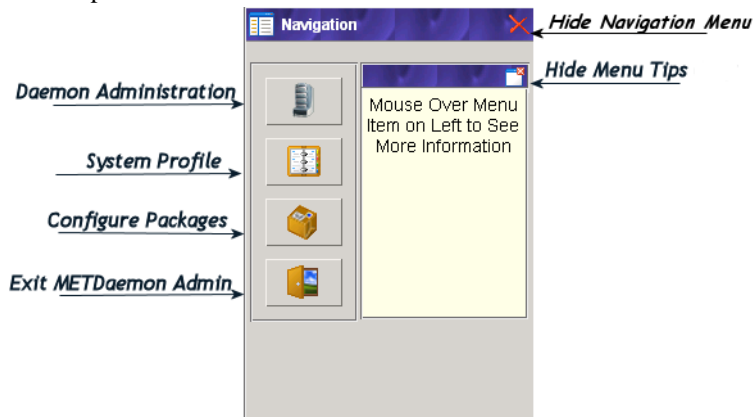
-  *Exit METDaemon Administration*

Exit METDaemon Administration will reload METDaemon Administration. This will cause your session to be renewed, requiring you to log in again, if desired.


2. Status Display: This area displays who is logged in.



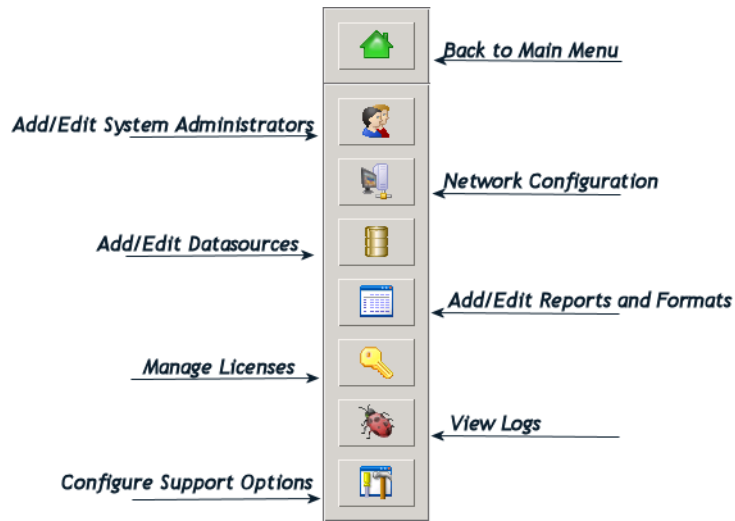
3. *Menu icons - located on the left side of the display*: This menu can also be used for all METDaemon Administration operations.





This menu contains the same options as the *toolbar* but works a little differently in that when selecting a menu button, and a submenu exists for that option, the menu will transform and show the submenu options.

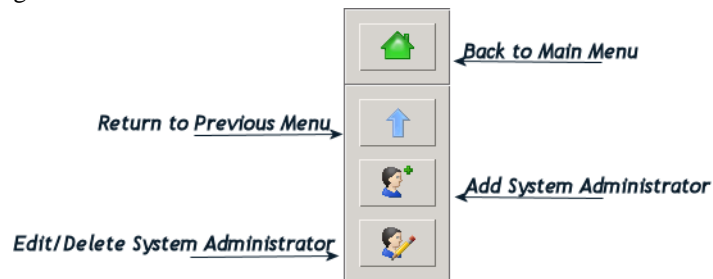
-  *Daemon and System Administration*

When selecting this button, the following submenu is shown containing more options.




The "Back to Main Menu"  button can be selected to return the navigation menu to its original state. If a submenu is more than one level deep, the "Back to Previous Menu"  button will appear allowing you to "go up one level" in the menu structure.

Example: Selecting the "System Administrators"  button from the above menu will show the following 3rd level submenu.



-  *System Profile*

System Profile is used to enter information about your System Administrator, Lab Manager, and Company and/or Lab.

-  *Configure Installed Packages*

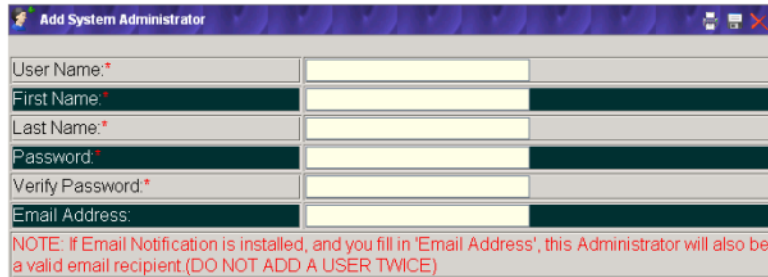
Configure Installed Packages is used to configure any add-on packages that have been installed. This is where the administration of Email Notification will be handled.

-  *Exit METDaemon Administration*

Exit METDaemon Administration will reload METDaemon Administration. This will cause your session to be renewed, requiring you to log in again, if desired.

Adding a System Administrator

Select the "Add System Administrator"  button to view the following form:



User Name:*	<input type="text"/>
First Name:*	<input type="text"/>
Last Name:*	<input type="text"/>
Password:*	<input type="password"/>
Verify Password:*	<input type="password"/>
Email Address:	<input type="text"/>

NOTE: If Email Notification is installed, and you fill in 'Email Address', this Administrator will also be a valid email recipient.(DO NOT ADD A USER TWICE)

Username: is required and is used for logging in to METDaemon Administration.


First Name: is a required field.

Last Name: is a required field.


Password: is a required field and is used for logging in to METDaemon Administration

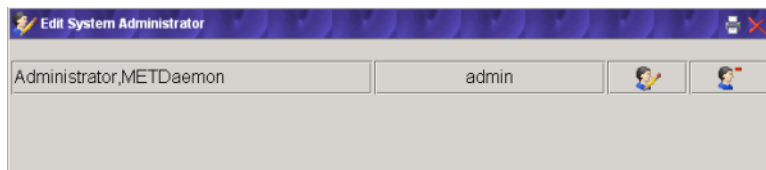
Verify Password: is a required field and MUST match "Password".



Email Address: is not required. If Email Notification is installed, and you fill in 'Email Address', this Administrator will also be a valid email recipient.(DO NOT ADD A USER TWICE).

Once all required information is completed, select the "Save"  button in the top right corner of the form to add a new System Administrator.


Editing/Deleting a System Administrator

Select the "Edit System Administrator"  button to view the following form that shows a list of System Administrators:

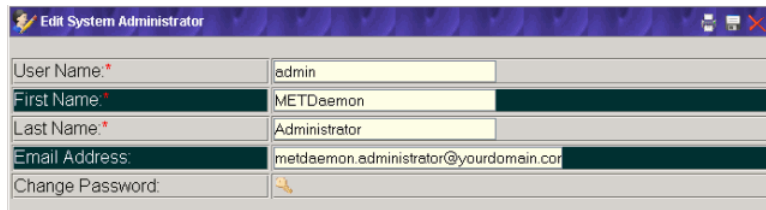


Administrator,METDaemon	admin		
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Editing a System Administrator

Select the "Edit Administrator"  button that corresponds with the administrator to be edited. You

will now be presented with the administrator information to be updated.





Username: is a required field and is used for logging in to METDaemon Administration.

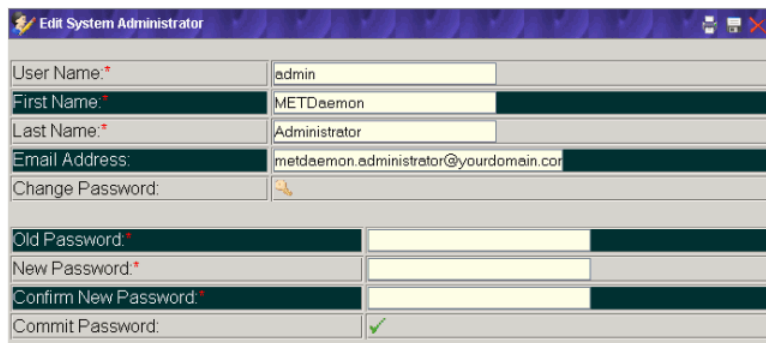
First Name: is a required field.

Last Name: is a required field.

Email Address: is not a required field. If *Email Notification* is installed, and you fill in 'Email Address', this Administrator will also be a valid email recipient.(DO NOT ADD A USER TWICE).

Once all required information is completed/changed, select the "Save"  button in the top right corner of the form to update a System Administrators information.


To change an administrator's password, select the "Change Password"  button.




Old Password: is a required field and MUST be provided to update a password.

New Password: is a required field.

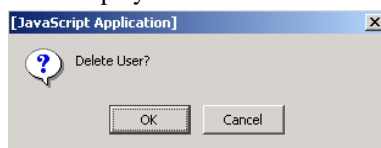
Confirm New Password: is a required field.

Once all password information is completed, select the "Change Password"  button to update the password.

Deleting a System Administrator

Select the "Delete Administrator"  button that corresponds with the administrator to be deleted.

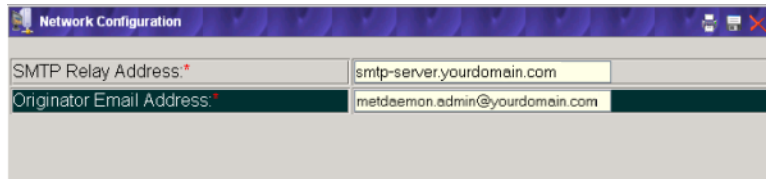
The following confirmation box will be displayed:



Select "OK" to delete the administrator, or "Cancel" to return to the list without deleting the administrator.

Network Configuration


Select the "Network Configuration"  button to view the following form:



The screenshot shows a window titled "Network Configuration" with two input fields. The first field is labeled "SMTP Relay Address:*" and contains the text "smtp-server.yourdomain.com". The second field is labeled "Originator Email Address:*" and contains the text "metdaemon.admin@yourdomain.com". There are standard window control buttons in the top right corner.

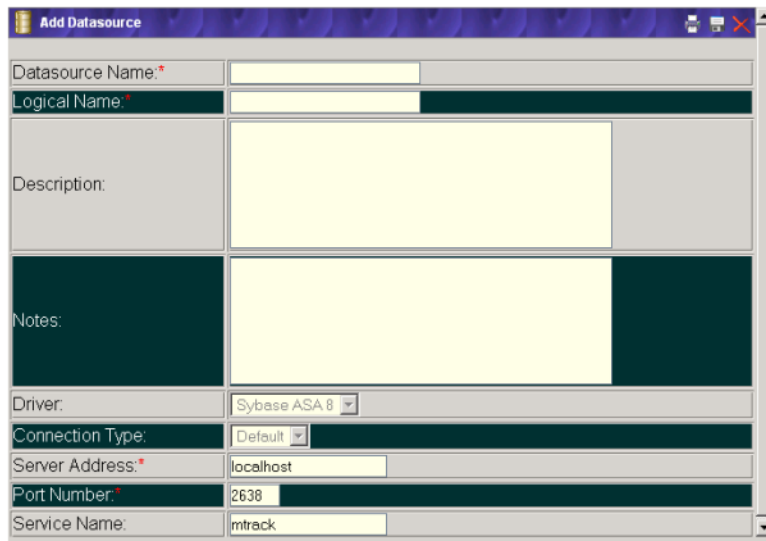
SMTP Relay Address: is a required field and must be a valid *SMTP* server address. Consult your IT department to obtain this information.

Originator Email Address: is a required field. This will be the FROM: and REPLY TO: address that is used when email is sent from METDaemon.

Once all required information is completed, select the "Save"  button in the top right corner of the form to save/update Network Configuration.

Adding a Datasource

Select the "Add Datasource"  button to view the following form:



The screenshot shows a window titled "Add Datasource" with several fields. "Datasource Name:*" and "Logical Name:*" are empty text boxes. "Description:" and "Notes:" are large text areas. "Driver:" is a dropdown menu set to "Sybase ASA 8". "Connection Type:" is a dropdown menu set to "Default". "Server Address:*" is a text box containing "localhost". "Port Number:*" is a text box containing "2638". "Service Name:" is a text box containing "mtrack". There are standard window control buttons in the top right corner.

Datasource Name: A name given to this *Datasource*. Must be unique if there are more than one *Datasource* defined.

Logical Name: An optional name that may be given to this *Datasource* for future reference.

Description: An optional description of this *Datasource* for your reference.

Notes: Any optional notes regarding this *Datasource* for your reference.


Driver: Set to "Sybase ASA 8"

Connection Type: Set to "Default"


Server Address: The FQDN (Fully Qualified Domain Name) of the server (such as "databaseserver.yourcompany.com"), or it's "dotted-quad" IP address (such as 10.10.0.0).

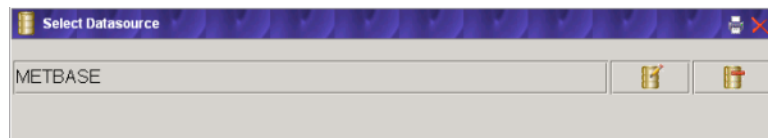
Port Number: The TCP/IP *port* (if using TCP/IP or "default" as the connection) number that the database server is responding to requests on. The default is "2638".

Service Name: If the database engine is hosting multiple databases, the name, or alias, of the database you wish to connect to.

Once all required information is completed, select the "Save"  button in the top right corner of the form to save the new Datasource.

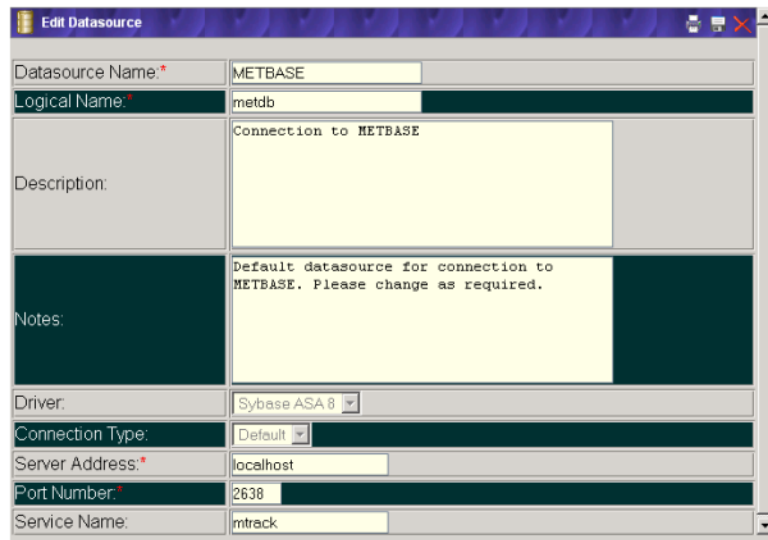
Editing/Deleting a Datasource

Select the "Edit Datasource"  button to view a list of datasources to edit, if any.



To delete a Datasource, select the appropriate "Delete Datasource"  button.

To edit a Datasource, select the appropriate "Edit Datasource"  button.



Datasource Name: A name given to this Datasource. Must be unique if there are more than one Datasource defined.

Logical Name: An optional name that may be given to this Datasource for future reference.

Description: An optional description of this Datasource for your reference.

Notes: Any optional notes regarding this Datasource for your reference.


Driver: Set to "Sybase ASA 8"

Connection Type: Set to "Default"

Server Address: The FQDN (Fully Qualified Domain Name) of the server (such as "databaseserver.yourcompany.com"), or it's "dotted-quad" IP address (such as 10.10.0.0).

Port number: The TCP/IP port (if using TCP/IP or "default" as the connection) number that the database server is responding to requests on. The default is "2638".

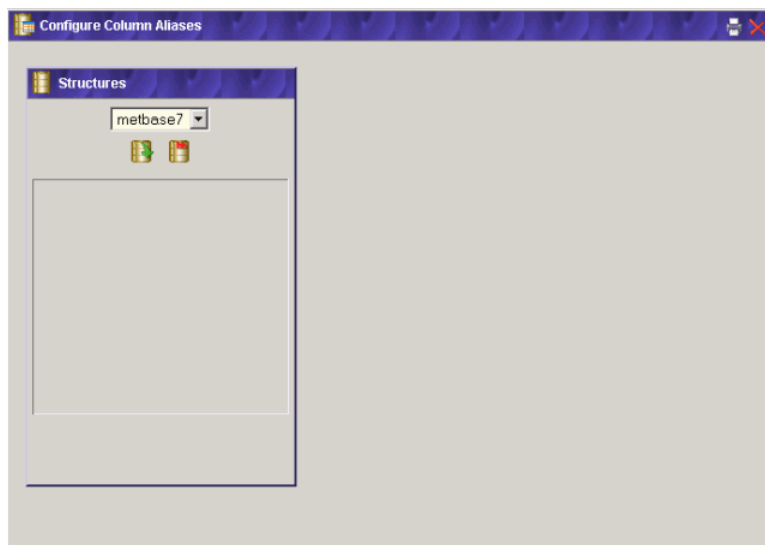
Service Name: If the database engine is hosting multiple databases, the name, or alias, of the database you wish to connect to.

Once all required information is completed, select the "Save"  button in the top right corner of the form to update the Datasource.

Column Aliasing

The *Column Aliasing* feature is mainly a developers tool used in conjunction with the development API (METDaemon Developer's Kit). Column aliasing allows an administrator to rename columns with more descriptive or informative names, or to allow easy reference changes between columns without affecting client applications. Some packages do not make use of the column aliasing feature. Please refer to the individual package documentation to see if it makes use of column aliasing, and how to implement it.


Select the "*Column Aliasing*"  button to view the following form:

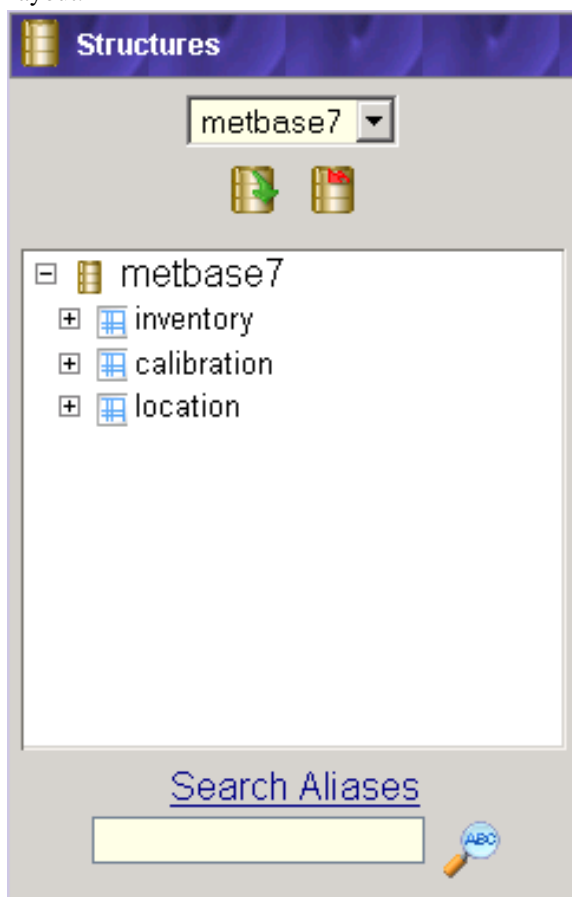



Note

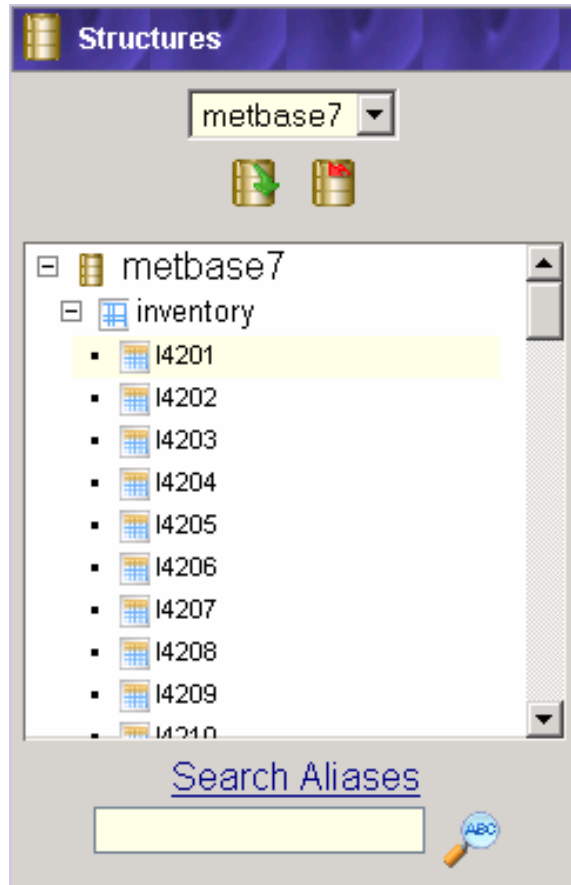
1. You will need to be logged in to METDaemon using a valid database username and password in order to connect to a database structure.
2. Column Alias names *MUST* be unique in each table.

Navigating the Database Structure

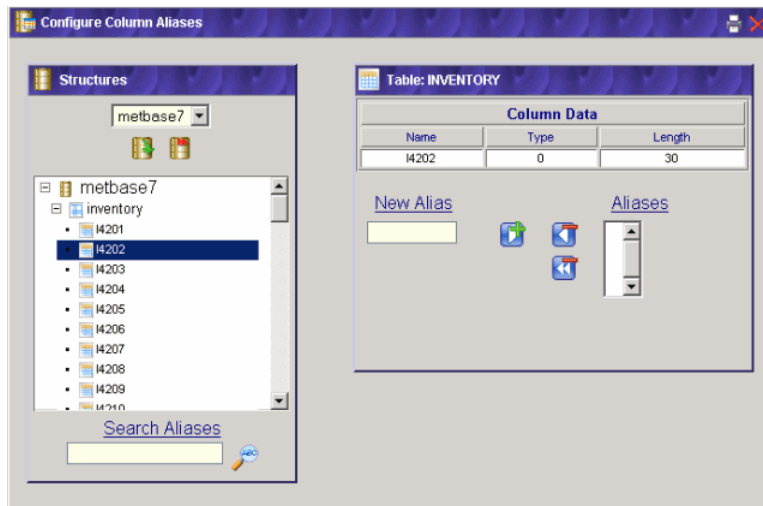
First, select a *database structure* from the list and select the "Connect"  button. It will take a few moments to connect and build the database structure. The form will be populated with tables and columns in a hierarchical layout.




Selecting the plus  will expand a table and show all columns in that table.



Selecting a column name will show column information and options for adding/removing aliases for that column.




Add a Column Alias

To add a new column alias, enter the alias name into the "New Alias" input box and either press the Enter key on the keyboard or select the "Add Alias"  button. If there were no errors adding the new


alias, the new alias name will be populated in the "Aliases" list. If an error is encountered when adding a

new alias, it is most likely caused by the alias name already being used by another column in the same table. Upon failing to add an alias, an automatic search is performed on the table in question.


Remove a Column Alias

To remove an existing column alias name select the column alias name in the "Aliases" list then select the "Remove Selected Alias(es)"  button.


To remove multiple aliases at once, hold down the "CTRL" key on the keyboard and select each column alias name to be removed, then select the "Remove Selected Alias(es)"  button.

To remove all alias names associated with a column, select the "Remove All Aliases"  button.

Search Column Aliases

To search for an existing alias name, enter the alias name you want to find into the "Search Aliases" input box and select the *search*  button.

Adding a Report

Select the "Add Report"  button to view the following form:

Make Active?: Any report can be enabled or disabled by setting this field to "Active" or "Inactive". Default is "Active".

Report Type: Set to "SQL Query"

Report Name: is a required field and must be unique if there is more than one report.

Report Title: is a required field. The Report Title is the text that will be placed in the header of the report, as the main title.

Report Subtitle: The Report Subtitle is the text that is placed in the report header underneath the Report Title, usually in a smaller font.

Description: This field is for describing this report. This text will not appear in the generated report.

Notes: Place any additional report notes here. This text will not appear in the generated report.

Datasource: is a required field. Select the Datasource to be used for this report.

Report Format: is a required field. Select the Report Format to be used for this report. If you would like to see a preview of a Report Format, select the Report Format from the drop-down list and select the "Preview Format" button. The report preview will open a new browser window.



Query to Execute: is a required field. This is the query that will be executed against the database and the results of this query will be used to generate the report.

It is possible to TEST the SQL Query against the selected Datasource. To do so, select the "Test SQL Query" button. This will cause a new box to appear inside of the "Query to Execute" section. Se-



lecting this button again will cause the new options to disappear.

Query to Execute:*		
	User Name:*	<input type="text"/>
	Password:*	<input type="password"/>
	Execute Query:	<input checked="" type="checkbox"/>
Test SQL Query:		

If you are logged in to METDaemon with valid datasource/database credentials, you DO NOT need to fill in "Username" or "Password" to test a query, fill in the "Query to Execute" field and select the "Execute Query" button.

Otherwise, fill in "Username" and "Password" with valid datasource/database credentials and select the "Execute Query" button. If the query fails, you will get a message box stating "SQL Query

Failed", and you will need to verify datasource information, as well as the supplied username and password. A simple connection test can be achieved by using a very simple SQL query such as: `SELECT * FROM <table name>`. If this query fails, check the username and password by logging in to the database by other means.

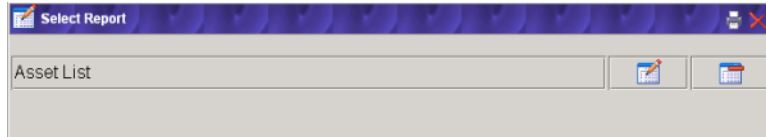
If the query passes, you will get a message box stating "SQL Query Passed and Returned <#Rows> rows of Data". Indicating how many rows of data were returned by the query.

Once all required information is completed, select the "Save" button in the top right corner of the form to save the report.

Editing/Deleting a Report

Select the "Edit Report" button to view the "Select Report" form:

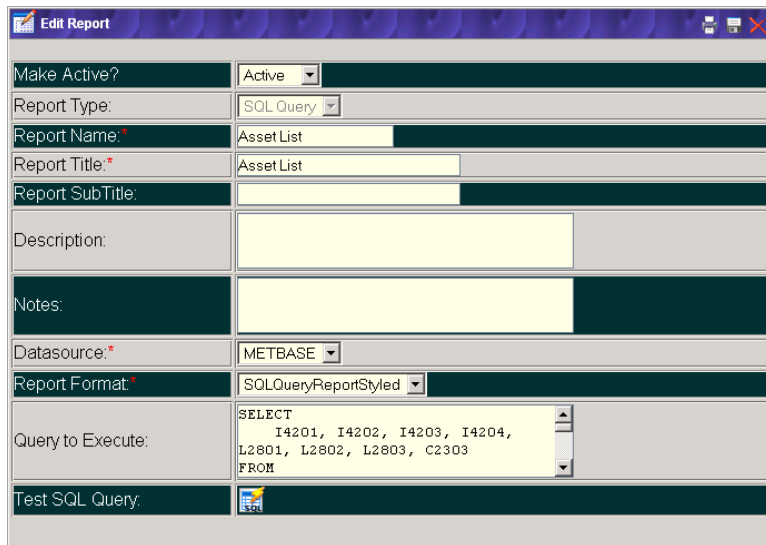




To delete a report, select the appropriate "Delete Report" button.



To edit a report, select the appropriate "Edit Report" button.



Make Active?: Any report can be enabled or disabled by setting this field to "Active" or "Inactive". Default is "Active".

Report Type: Set to "SQL Query"

Report Name: is a required field and must be unique if there is more than one report.

Report Title: is a required field. The Report Title is the text that will be placed in the header of the report, as the main title.

Report Subtitle: The Report Subtitle is the text that is placed in the report header underneath the Report Title, usually in a smaller font.

Description: This field is for describing this report. This text will not appear in the generated report.

Notes: Place any additional report notes here. This text will not appear in the generated report.


Datasource: is a required field. Select the Datasource to be used for this report.


Report Format: is a required field. Select the Report Format to be used for this report. If you would like to see a preview of a Report Format, select the Report Format from the drop-down list and select the "Preview Format" button. The report preview will open a new browser window.





Query to Execute: is a required field. This is the query that will be executed against the database and the results of this query will be used to generate the report.

It is possible to TEST the SQL Query against the selected Datasource. To do so, select the "Test SQL

Query"  button. This will cause a new box to appear inside of the "Query to Execute" section. Selecting this button again will cause the new options to disappear.


Query to Execute:*	<input type="text"/>	
	User Name:*	<input type="text"/>
	Password:*	<input type="password"/>
	Execute Query:	<input checked="" type="checkbox"/>
Test SQL Query:		

If you are logged in to METDaemon with valid datasource/database credentials, you DO NOT need to fill in "Username" or "Password" to test a query, fill in the "Query to Execute" field and select the *Execute Query*"  button.


Otherwise, fill in "Username" and "Password" with valid datasource/database credentials and select the *Execute Query*"  button. If the query fails, you will get a message box stating "SQL Query

Failed", and you will need to verify datasource information, as well as the supplied username and password. A simple connection test can be achieved by using a very simple SQL query such as: `SELECT * FROM <table name>`. If this query fails, check the username and password by logging in to the database by other means.

If the query passes, you will get a message box stating "SQL Query Passed and Returned <#Rows> rows of Data". Indicating how many rows of data were returned by the query.


Once all required information is completed, select the *Save*"  button in the top right corner of the form to update the report.

Adding a Report Format

Select the *Add Report Format*"  button to view the *Define a New Report Format*" form.

Format Name: is a required field and must be unique.

Format Name is the *ONLY* required field on this form. If all other fields are left blank, you will end up with a very plain black and white report with no styling.

Each COLOR attribute has a Color Picker  associated with it. Try it out to choose from 216 web/email client safe colors. Colors are not limited to the 216 colors provided by the color Picker. Colors can be expressed in Hex(#000000) format, or by Color Name(black). DO NOT use quotes around color values.

As you change color values and move away from a color field, part of the background will change to the selected color, to make it easier to keep track of colors

The following image shows the various sections of a report:

		Report Title\$				
		\$subTitle\$				
		DATA HEADER				
EVEN ROW		6reCsGIC0t	ctFG3vBG66	PB9ooPPRb9	snHD9UJNB4	Xc1MO90uk
	→	dMwm91e7j	Y1UDKzZa39	73ZK03Kz5q	CmB024aC2u	r17Xwqybkn
		aEK46CB012	SN010G8wqR	VpE1x1k69q	CB00g60kLB	B08ko00RY
		nLyY5bn5y	BVPb6bcxJE	Kim0ho596	4034ct55C1	W76B9F05K
		z17g79wQ8a	EvtceLaz6z	n14mqdq18F	p1rkrreBbc	081V08LFga
		JRV9GcCPma	4QZ1Bct4w9	TZfpy9P702	PFLQTtBHDc	RWab9X024K
		Oc6N9V2j1t	MPgZSEj9Y7	JnpBL0Gyab	4sokajWDLu	rc7bU5G1e9
		631PvF3baL	8YNQ88Y1dv	BXoq9K71ZZ	S17HqjJfD8	Jy8cC04xc
		Ocfx9qv5Dn	Epehzyvg9e	B0v0Prc6wV	1um8pgeq4	yy8p7FNbzI
		pa8The1xq4	E3e1ESK1Qq	E0f51y9ERp	22EJ0oGcbt	B56nLwck4P
		n31annYtd5	u8DJo999Fc	YBYau189JN	kmfGG008tc	gadQ7HAL9W
		Total Number of Records for this Report: \$numRecords\$				
		DOCUMENT FOOTER				

Document Attributes

Background Color: Main Background color for the document.

Background Image: This can be any HOSTED image and should be on a publicly accessible web server for emailed reports. Example: <http://www.ontimesupport.com/images/ots/bg-grid2.gif> The image will be tiled(repeated) and will fill the entire page.

Text Color: The default document text color. Any text color fields left blank will default to this color.

Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Font Family: The default document font family.

Document Header

Header Height: Height of the header expressed in pixels, such as 60px. Header height will also control how far from the top of the page the data table will be positioned.

Background Color: Background color for the Header.

Header Text Color: Text color used in the header.

Border Width: If a border width greater than 0px is chosen from the list, the header will have a solid border around it.

Border Color: Border color for the header.

Report Title Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Report Title Font Family: Font used for the report title.

Report Subtitle Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Report Subtitle Font Family: Font used for the report title.

Data Table Attributes

Left Margin: Left margin expressed in pixels, such as 60px. This may be useful for users familiar with HTML and who would like to add other info to the report on the left side. "Auto" will place the data table in the center of the page.

Background Color: Background color for the table containing the results of the report.

Border Width: If a border width greater than 0px is chosen from the list, the data table will have a solid border around it.

Border Color: Border color for the data table.

Data Header Attributes

Background Color: Background color for the data header. Every cell in the data header row will be this color.

Border Width: If a border width greater than 0px is chosen from the list, the data table will have a solid border around it.

Border Color: Border color for the data table.

Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Text Color: Text color used for the data header.

Text Decoration: Text decoration can be none, underline, or underline overline.

Font Family: Font family used for the data header.

Data Row Attributes

Even Row Background Color: Background color for even rows. Every even row will be this color.

Even Row Text Color: Text color used for even rows.

Odd Row Background Color: Background color for odd rows. Every odd row will be this color.

Odd Row Text Color: Text color used for odd rows.

Border Width: If a border width greater than 0px is chosen from the list, then every data cell will have a solid border around it.

Border Color: Border color used for data rows.

Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Font Family: Font family used for data rows.

Footer Attributes

Background Color: Background color of the footer.

Border Width: If a border width greater than 0px is chosen from the list, the footer will have a solid border around it.

Border Color: Border color used around footer.

Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Text Color: Text color used for footer text.

Font Family: Font family used for footer text.


Additional Code

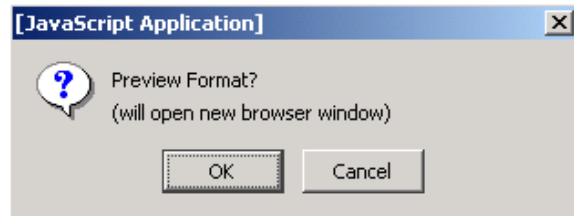
In the "Additional Code" section, an administrator who is familiar with HTML can add anything to the report. Example:

```
<div id="myCode" style="position: absolute; top: 0px; left: 0px; background-color: transparent; font-size: 8pt; font-family: 'arial'; text-align: left;">On Time Support,Inc. <br> 25132 Oakhurst Ste. 185<br>Spring, TX 77386<br>(281)296-6066<br>support@ontimesupport.com</div>
```

This will create a division in the upper left corner of the report, and display company info such as:

On Time Support, Inc. 25132 Oakhurst ste. 185 Spring, Tx 77386 281)296-6066 support@ontimesupport.com	\$reportTitle\$ \$subTitle\$
---	---


Once all required information is completed, select the "Save"  button in the top right corner of the form to save the report format. After a successful save, you will be presented with a dialog something like:

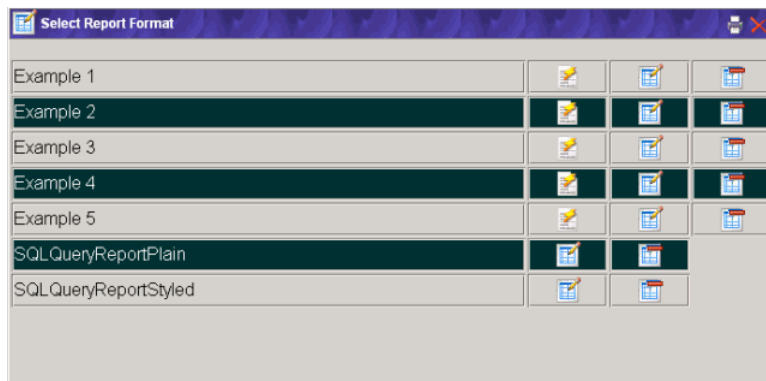



Selecting "OK" will allow you to preview the format you have just created in a new browser window. When you are done with the preview, close the new window that was created.


Selecting "Cancel" will return you to the "Define New Report Format" form, allowing you to begin a new format, if desired.

Editing/Deleting a Report format

Select the "Edit Report Format"  button to view a list of Report Formats that can be edited :



To delete a report format, select the appropriate "Delete Format"  button.


There are two ways to edit a report format: the Easy Format Editor  , and the Advanced format

Creator .

There are two built-in report formats that are only editable using the Advanced Format Editor.


If, after creating a new format, you edit that format in the Advanced Format Editor and either ADD or REMOVE named elements, it is highly recommended that you DO NOT edit that format using the Easy Format Editor. As your custom elements may get overwritten and lost.

Easy Format Editor

To edit a format using the Easy Format Editor, select the appropriate "Edit Format(Easy)"  button.

Format Name: is a required field and must be unique.

Format Name is the *ONLY* required field on this form. If all other fields are left blank, you will end up with a very plain black and white report with no styling.

Each COLOR attribute has a Color Picker  associated with it. Try it out to choose from 216 web/email safe colors. Colors are not limited to the 216 colors provided by the Color Picker. Colors can be expressed in Hex(#000000) format, or by Color Name(black). DO NOT use quotes around color values.

When the editor is populated, and when you change color values and move away from a color field, part of the background will change to the selected color, to make it easier to keep track of colors.

The following image shows the various sections of a report:

Report Title\$					
\$subTitle\$					
DOCUMENT HEADER		DATA HEADER			
EVEN ROW	6reCsGICQt	ctFG3vBG66	PBqooPPRb9	snHD9UJNB4	XciMO90iuk
ODD ROW	dMmam91e7j	Y1UDKeZa39	73ZK03kx5q	CmB024aC2u	r17Xwq9bka
	aEK46C012	SM010BwqR	VpE1x1k69q	CB00g60kLB	B08ko00HF
	nLyY5xw5y	BWPb6DcxJE	Kim9ho596	4034ct55C1	W76B9F05K
	z17g79wQ8a	EvtceLaz6z	n14qm6q16F	p1zkrreBbc	081V08LFga
	JRV9GcCPma	4QZ1Bct4w9	TZfpy9P702	PFLQTcBHDc	RWab9X024K
	Oc6NMY2jI4	MPgZSEjy77	JnpBL0Gyab	4sokajW0Lu	zc7bH5G1e9
	631PvF3baL	8YDQ80T1dv	8Xoq9K712Z	937HqIJDB	Jy8bCc4xk
	OckxRqv57b	Epehzyv9pe	B0v0Prc6vV	1um8lgaq4	yy8p7H8mZ
	pa87be1xq4	E3e1ESK1Qq	E0f51y9ERp	22EJ70oGbc	B56nLwKkP
	a81aanY1d5	u8DJo669Fc	YBYau199JN	kmEG008tc	gadQ7HLL9W
Total Number of Records for this Report: \$numRecords\$					
DOCUMENT FOOTER					

Document Attributes

Background Color: Main Background color for the document.

Background Image: This can be any HOSTED image and should be on a publicly accessible web server for emailed reports. Example: <http://www.ontimesupport.com/images/ots/bg-grid2.gif> The image will be tiled(repeated) and will fill the entire page.

Text Color: The default document text color. Any text color fields left blank will default to this color.

Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Font Family: The default document font family.

Document Header

Header Height: Height of the header expressed in pixels, such as 60px. Header height will also control how far from the top of the page the data table will be positioned.

Background Color: Background color for the Header.

Header Text Color: Text color used in the header.

Border Width: If a border width greater than 0px is chosen from the list, the header will have a solid border around it.

Border Color: Border color for the header.

Report Title Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Report Title Font Family: Font used for the report title.

Report Subtitle Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Report Subtitle Font Family: Font used for the report title.

Data Table Attributes

Left Margin: Left margin expressed in pixels, such as 60px. This may be useful for users familiar with HTML and who would like to add other info to the report on the left side. "Auto" will place the data table in the center of the page.

Background Color: Background color for the table containing the results of the report.

Border Width: If a border width greater than 0px is chosen from the list, the data table will have a solid border around it.

Border Color: Border color for the data table.

Data Header Attributes

Background Color: Background color for the data header. Every cell in the data header row will be this color.

Border Width: If a border width greater than 0px is chosen from the list, the data table will have a solid

border around it.

Border Color: Border color for the data table.

Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Text Color: Text color used for the data header.

Text Decoration: Text decoration can be none, underline, or underline overline.

Font Family: Font family used for the data header.

Data Row Attributes

Even Row Background Color: Background color for even rows. Every even row will be this color.

Even Row Text Color: Text color used for even rows.

Odd Row Background Color: Background color for odd rows. Every odd row will be this color.

Odd Row Text Color: Text color used for odd rows.

Border Width: If a border width greater than 0px is chosen from the list, then every data cell will have a solid border around it.

Border Color: Border color used for data rows.

Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Font Family: Font family used for data rows.

Footer Attributes

Background Color: Background color of the footer.

Border Width: If a border width greater than 0px is chosen from the list, the footer will have a solid border around it.

Border Color: Border color used around footer.

Font Size: Font Size expressed in Point, such as 10pt. The drop down list represents the most commonly used font sizes.

Text Color: Text color used for footer text.

Font Family: Font family used for footer text.


Additional Code

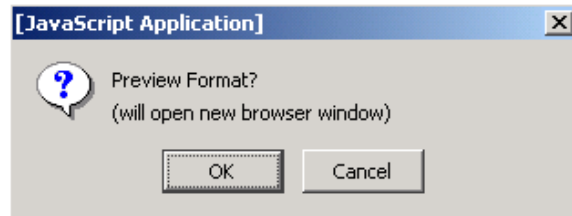
In the "Additional Code" section, an administrator who is familiar with HTML can add anything to the report. Example:

```
<div id="myCode" style="position: absolute; top: 0px; left: 0px; background-color: transparent; font-size: 8pt; font-family: 'arial'; text-align: left;">On Time Support,Inc. <br> 25132 Oakhurst Ste. 185<br>Spring, TX 77386<br>(281)296-6066<br>support@ontimesupport.com</div>
```

This will create a division in the upper left corner of the report, and display company info such as:

On Time Support, Inc. 25132 Oakhurst ste. 185 Spring, Tx 77386 (281)296-6066 support@ontimesupport.com	\$reportTitle\$ \$subTitle\$
--	---

Once all required information is completed, select the "Save"  button in the top right corner of the form to update the report format. After a successful update, you will be presented with a dialog something like:




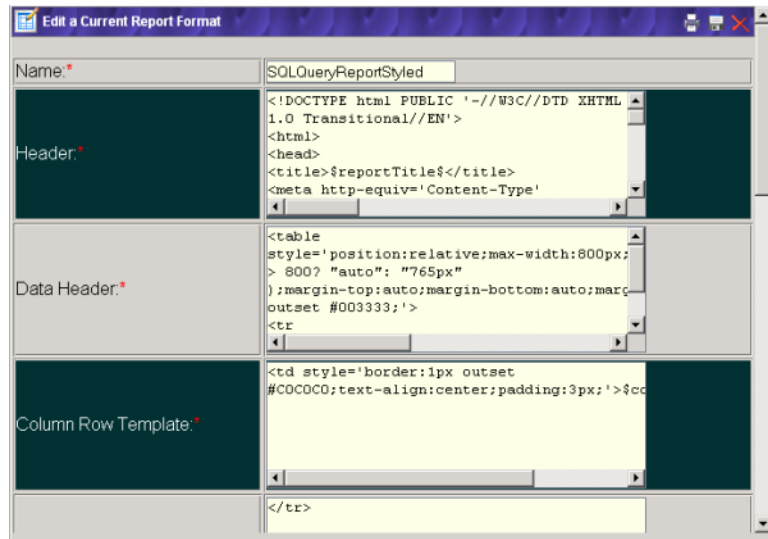
Selecting "OK" will allow you to preview the format you have just created in a new browser window. When you are done with the preview, close the new window that was created.

Selecting "Cancel" will return you to the format you were editing, allowing you to continue editing that format, if desired.

Advanced Format Editor

The Advanced Format Editor should only be used by persons familiar with HTML and CSS.

To edit a format using the Advanced Format editor, select the appropriate "Edit Format(Advanced)"  button in the list of report formats.



Header: Header contains the start of the HTML document, up to and including the page header.

Data Header: Begins the data table.

Column Row Template: Defines the column header.

Column Row Separator: Ends the column row.

Data Row Template: Defines the default data row.


Data Row Start Even: Defines even data rows.

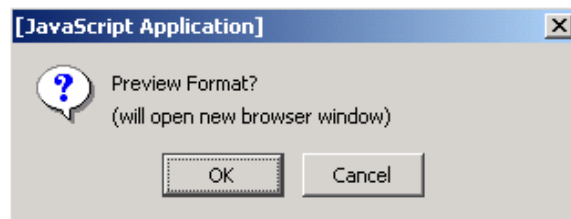
Data Row Start Odd: Defines odd data rows.

Data Row End: Ends each data row.

Data Footer: Ends the data table.

Footer: Defines the footer for the entire page.

Once all required information is completed, select the "Save"  button in the top right corner of the form to update the report format. After a successful update, you will be presented with a dialog something like:




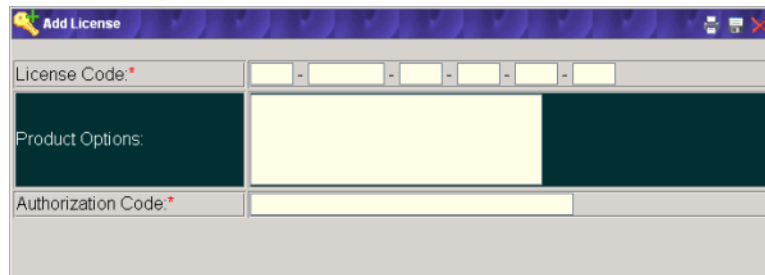
Selecting "OK" will allow you to preview the format you have just created in a new browser window. When you are done with the preview, close the new window that was created.

Selecting "Cancel" will return you to the format you were editing, allowing you to continue editing that format, if desired.

Installing Licenses

Install the system license (starts with DMN-) first before adding any other licenses.

Select the "Add License"  button to view the "Add License" form:




License Code: is a required field. You should have received your license code in the same package the software arrived in, or in an email if you downloaded off of the web. Enter it exactly as it is shown, the cursor will auto-tab to the next license code box as you go.

Note


There is no need to TAB to the next entry box when entering License Code sections, this is done automatically.

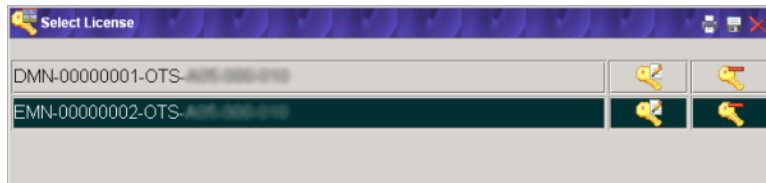
Product Options: is an optional field. Product Options are not used at this time, but are reserved for future use.

Authorization Code: You should have received your authorization code in the same package the software arrived in, or in an email if you downloaded off of the web. Enter it exactly as it is shown

Once all required information is completed, select the "Save"  button in the top right corner of the form to save this license.

Editing/Deleting Licenses

Select the "Edit License"  button to view the Select License form:




To delete a license, select the appropriate "Delete License"  button.

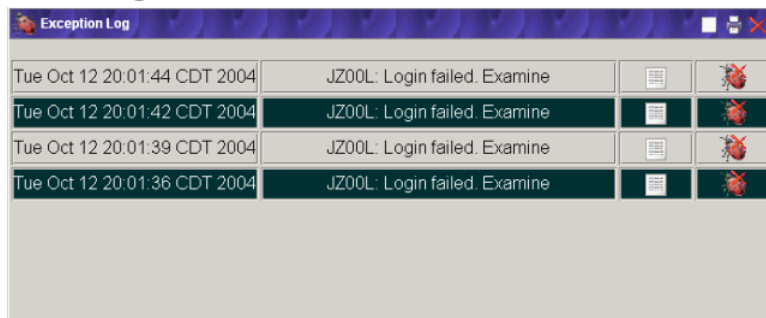
Editing a license is not permitted at this time.

If changes need to be made to your license or authorization codes, delete the license and re-add it with the new information.

Viewing the Exception Log

The Exception Log can be used to troubleshoot most problems encountered when using METDaemon, METDaemon Administration, and any installed package.

Select the "Exception Log"  button to view the following form:





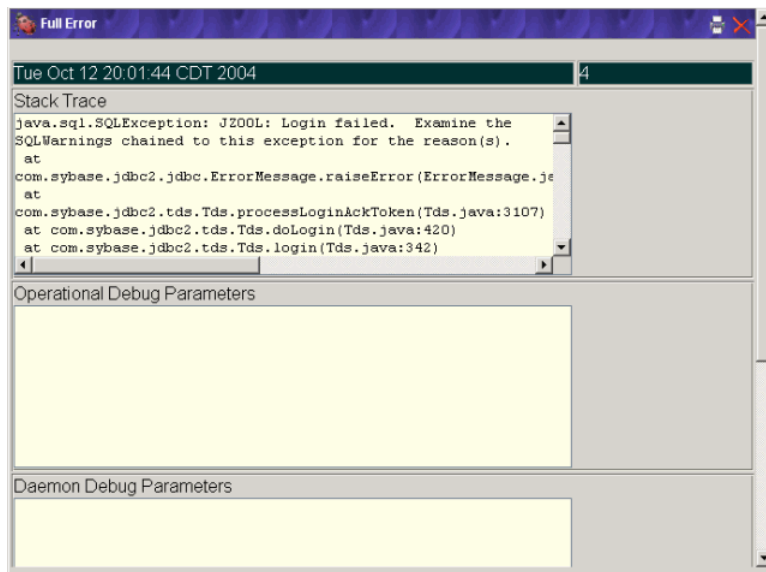
button.

Tip

To delete all entries in the exception log, use the "Clear Exception Log" button in the top right section of this form.



To view the Full Error for an entry, select the appropriate "View Full Error" button. You will be presented with a form similar to:




Stack Trace: shows the Java exception trace.

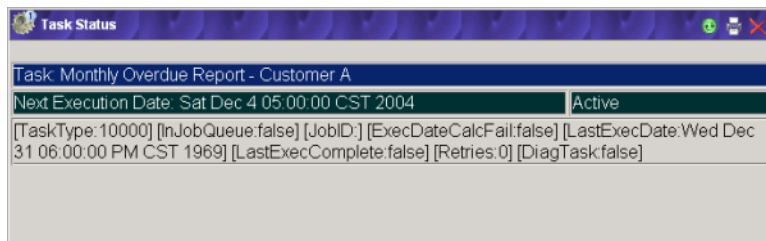
Operational Debug Parameters: shows operational parameters in use at time of exception.

Daemon Debug Parameters: displays debugging parameters used to assist support personnel.

Java JRE Debug Parameters: shows Java Runtime Environment parameters at the time of error.

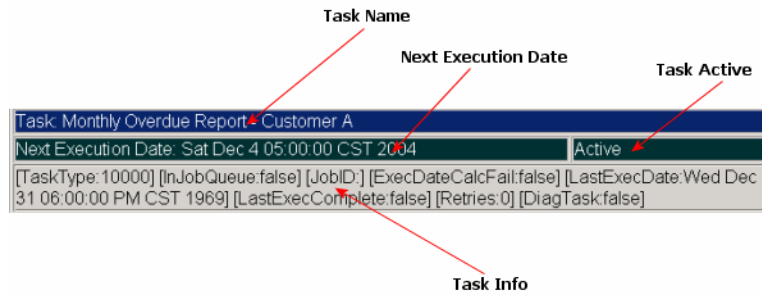
Viewing Task Status

Select the "Task Status"  button to view the Task Status form:



If there are no tasks configured, the Task Status form will be blank.

Task Status will show a list of configured tasks, along with certain information about each task.



Task Info contains the following task debugging information:

- *TaskType*: shows the type of task it is. Type 10000 = *Email Notification Task*
- *InJobQueue*: shows whether or not this task is queued to run.
- *JobID*: shows the internal jobID of this task

Note

if *InJobQueue*=false, *JobID* will be blank.

- *ExecDateCalcFail*: shows if the calculation for Next Execution Date failed.
- *LastExecDate*: shows the date this task was last executed.

Note

If this task has never been executed, *LastExecDate* will default to December 31 1969.

- *LastExecComplete*: shows whether or not this task executed successfully the last time it ran.
- *Retries*: shows how many times this task has attempted to execute.
- *DiagTask*: show whether or not this task is for diagnostic purposes.

To refresh the Task Status page, select the "Refresh Task Status" button. This will show the absolutely latest status info for all tasks.



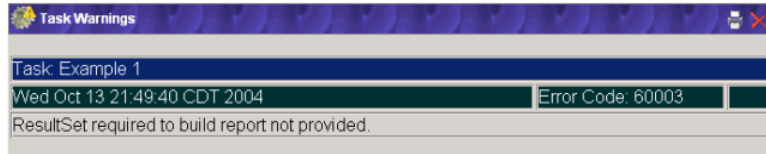
Refresh Task Status



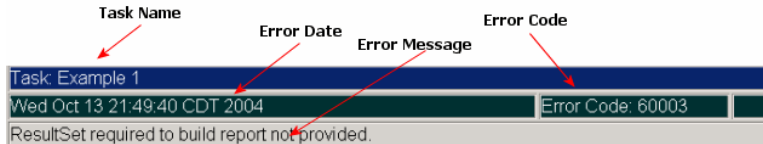
Viewing Task Warnings

Select the "Task Warnings" button to view the Task Warnings form:




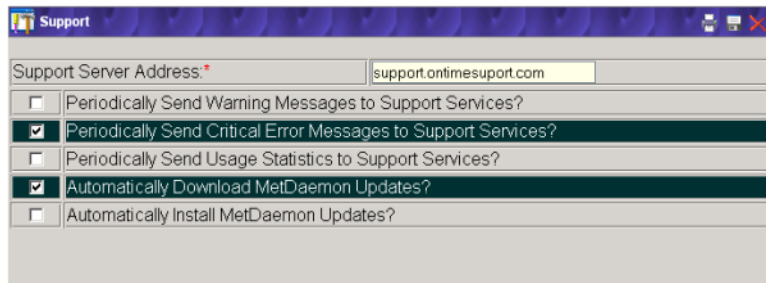


Warnings/Errors are automatically purged from the system when the listed problem is resolved and the task executes successfully..



Support Options

Select the "Support Options"  button to view the Support Options form:



Support Server Address: is a required field. The default address is *support.ontimesupport.com*


Periodically Send Warning Messages to Support Services? If this box is checked, the Daemon will send any warnings the daemon has encountered to On Time Supports' support services on a periodic basis (usually whenever system load and network activity is low).

Periodically Send Critical Error Messages to Support Services? If this box is checked, the Daemon will send any critical errors the daemon has encountered to On Time Supports' support services on a periodic basis (error messages are sent as soon as possible after the event).


Periodically Send Usage Statistics to Support Services? If this box is checked, the Daemon will send usage statistics to On Time Supports' support services on a periodic basis (usually when system load and network activity is low).

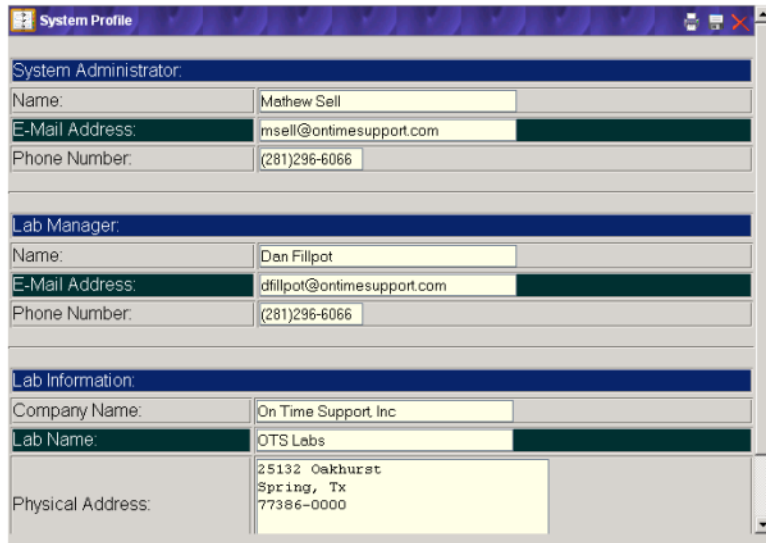
Automatically Download METDaemon Updates? If this box is checked, the daemon will attempt to automatically download updates from On Time Supports' support services when updates become available.

Automatically Install METDaemon Updates? If this box is checked, the daemon will attempt to install any downloaded updates automatically.

Once all required information is completed, select the "Save"  button in the top right corner of the form to save the support options.

System Profile

Select the "System Profile"  button to view the System Profile form:



The screenshot shows a window titled "System Profile" with a blue header bar. The form is divided into three sections: "System Administrator", "Lab Manager", and "Lab Information". Each section has a blue header bar. The "System Administrator" section contains fields for Name (Mathew Sell), E-Mail Address (msell@ontimesupport.com), and Phone Number ((281)296-6066). The "Lab Manager" section contains fields for Name (Dan Fillpot), E-Mail Address (dfillpot@ontimesupport.com), and Phone Number ((281)296-6066). The "Lab Information" section contains fields for Company Name (On Time Support Inc), Lab Name (OTS Labs), and Physical Address (25132 Oakhurst Spring, Tx 77386-0000).

- **System Administrator:**

Name: First and Last Name of the person who administrates METDaemon.

Email Address: Email Address of the person who administrates METDaemon.

Phone Number: Phone Number of the person who administrates METDaemon.

- **Lab Manager:**

Name: First and Last Name of the calibration lab manager.

Email Address: Email Address of the calibration lab manager.

Phone Number: Phone Number of the calibration lab manager.

- **Lab Information:**

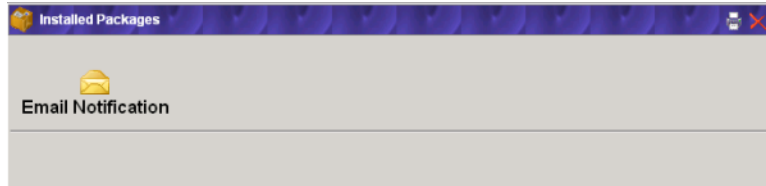
Company Name: Lab parent company name.

Lab Name: Lab name, if different than *Comany Name*.

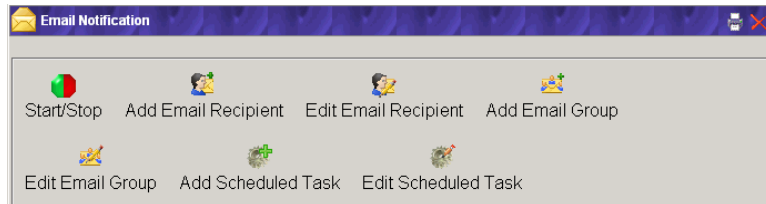
Physical Address: Street address of lab.

Configuring Installed Packages

Select the "Configure Installed Packages"  button to view a list of all installed packages:



Selecting a package Icon will display available options for that package. Example:



Advanced Concepts

This section describes various aspects of METDaemon that are not normally considered for day-to-day operations.

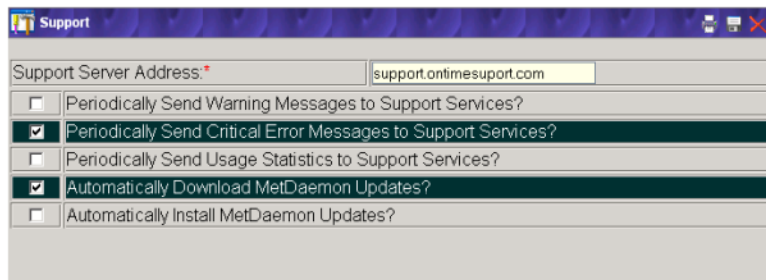
Support Services


On Time Support maintains a set of online servers that are used to communicate with customer installations of METDaemon, and whose administrators allow such communications. These functions were basically described in the "Administration" portion of this manual. The following types of communication may occur (if permitted by the system administrator):

- Debugging parameters for critical program errors
- Application warning messages (low memory, high load, etc)
- Usage statistics (to get an idea of customer load levels, etc)
- Download of software updates

Any of these forms of communication may be selectively permitted/restricted. To change the permitted communications, select the "Support Options" icon  in the toolbar. The following form will be

displayed:



You may select/deselect various communication options in this form. When you are satisfied with your choices, select the "Save" icon  in the upper right corner of the form to commit your changes.

Communications will be performed when load activities are low and will not disrupt the system performance level. Communications are also performed in a manner that will not create excessive network traffic.

Information that is transferred to support services contains ONLY the information described in the support options form, and the system license number of your system. The system license number is used to help track problems, and may assist support personnel with the troubleshooting of problems relating to your particular installation.

Again, you have the option to turn off any or all communication options if you wish.

Glossary

The following are a listing of definitions for terminology used throughout this manual:

Application server	A software application, normally run on a server, that provides information and services (and/or entire applications) to a variety of clients
Column Aliasing	A mechanism in which you can refer to a database column by a more descriptive name. For example, if you have column "A" in the database, you may create a column alias for it with the name of "Serial Number". Some packages running under METDaemon may make use of column aliasing, some may not.
Database Structure	A database structure is a series of parameters that describe to METDaemon the layout and order of a particular database.
Datasource	A series of defined parameters that describe a connection to a database. When specifying a connection to a database, you specify the datasource, and METDaemon will then use the datasource parameter values to make the database connection.
Dotted-Quad	An IPv4 network address consisting of 4 numeric values separated by periods, such as "10.20.30.40".
Exception	A system error, usually the result of a program deficiency (a "bug").
FQDN	Fully Qualified Domain Name - the full network name of a computer including the domain name if applicable, such as "myserv-er.mycompany.com".
JavaService	A Microsoft Windows-native application that assists METDaemon to operate as a native system service, and to respond to operating system requests for startup, shutdown, etc, as a native Windows service should behave.
Package	A package is an application that is built on METDaemon, and is administrated using the METDaemon administration tools (such as web browser administration facilities, etc)
Platform	A collection of software interfaces that allow a specific group of applications to interact with each other, provide for common access to data, administration capabilities, and so on. A platform provides a foundation level of services or access to a group of applications.

Port

In this manual, port is used to describe a "channel" available via the network to the server executing METDaemon. For example, port "90" is used to administrate METDaemon, so you can think of port "90" as channel "90" available from the server. Port numbers can be specified in the browser URL with a colon separating the server address or hostname and the port number as follows: *http://servername:90*

Privileged User

A privileged user is a user account that has administrative privileges, and may log into administrative services provided by METDaemon. A privileged user is characterized by having a password for login, while an unprivileged user does not.

SMTP

Simple Mail Transfer Protocol. A standard protocol for distributing electronic mail (email) via the Internet. SMTP is a widely accepted standard for allowing different email systems to communicate with each other.

Toolbar

A group of icons displayed at the top of the browser display that quickly allow a user to navigate to frequently used portions of the administration forms.

Unprivileged User

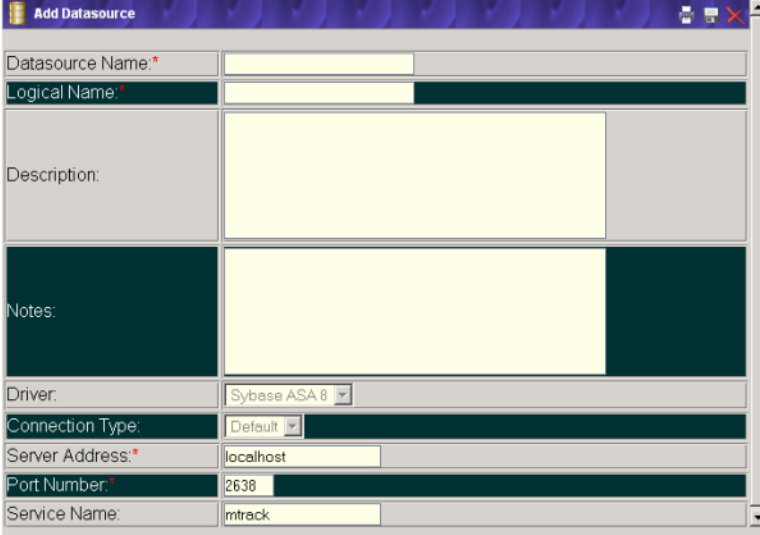
An unprivileged user is a user account that has no administrative privileges, and cannot log into administrative services provided by METDaemon. An unprivileged user does not have a password, while a privileged user has a password for authentication to administrative services.

Appendix A. Database Driver Configuration

Every Database Management System (DBMS) has specific parameters that are required in order to properly connect to the database engine/service. This section describes the various database drivers and the specific configuration of each driver.

Sybase Adaptive Server Anywhere 8.x

The ASA 8 database driver configuration form looks similar to the following:



Datasource Name:*	
Logical Name:*	
Description:	
Notes:	
Driver:	Sybase ASA 8
Connection Type:	Default
Server Address:*	localhost
Port Number:*	2638
Service Name:	mtrack

Refer to the screenshot shown above for the following explanation of terms and the particular options/settings for that configuration parameter.

- Datasource Name: A name given to this datasource. Must be unique if there are more than one datasource defined.
- Logical Name: An optional name that may be given to this datasource for future reference. A value for logical name is not required at this time.
- Description: An optional description of this datasource for your reference.
- Notes: Any optional notes regarding this datasource for your reference.
- Driver: Set to "Sybase ASA 8"
- Connection Type: Set to "Default"
- Server Address: The FQDN (Fully Qualified Domain Name) of the server (such as "databaseserver.yourcompany.com"), or it's "dotted-quad" IP address (such as 10.10.0.0).
- Port Number: The TCP/IP port (if using TCP/IP or "default" as the connection) number that the database server is responding to requests on. The default is "2638".
- Service Name: If the database engine is hosting multiple databases, the name, or alias, of the data-

base you wish to connect to.

Some hints regarding the configuration of a Sybase Adaptive Server Anywhere 8.x datasource:

- The default settings "out of the box" for this datasource are suitable for connection to a server under the following conditions ONLY:
 1. METDaemon is running on the same server as is the database engine (localhost)
 2. The Sybase database engine is hosting ONE database ONLY
 3. The Sybase database engine is responding on the default TCP/IP port
 4. The database file name is "mtrack.db"

Appendix B. Copyright Notices

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