

Mass Transit Dashboard

Installation Guide

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Introduction

The MassTransit Dashboard is a monitoring tool that aggregates status and transactional data from one or more MassTransit servers in a central repository and provides access to that data to end users through a web based User Interface. The MassTransit Dashboard is implemented as a web application that runs on a centrally located server, the “Hub” that continually retrieves or receives data from remote MassTransit servers by connecting to a “Sidecar” application that is running on each server. The Sidecar is responsible for collecting data from its associated MassTransit server and the file system on that server’s computer and making available the specific information to the central web application to communicate status and transaction information to users. This document explains how to install and configure the Hub, the web site, and the sidecars.



Before You Begin

The MassTransit Dashboard should be installed after you install your MassTransit servers. Please contact Group Logic Support at 703-528-1555 or support@grouplogic.com if you need assistance with a MassTransit installation.

System Requirements for the Windows Hub

Windows 2008 Server, Windows 2003 Server or Windows XP

MySQL Database 5.0

PHP 5.2

J2SE(TM) Runtime Environment 5.0 Update 6 (jre-1_5_0_06-windows-i586-p.exe)

IIS (Internet Information Services) version 5.0 or later, IIS 7 is recommended

System Requirements for the Windows Sidecar

MassTransit Enterprise or MassTransit Professional Server

- If you're running MassTransit 5.0.2.x use Sidecar version 1.1.0.5
- If you're running MassTransit 5.1.1.x or later use Sidecar version 1.2.0.2

Windows 2008, Windows 2003 or Windows XP

J2SE(TM) Runtime Environment 5.0 Update 6 (jre-1_5_0_06-windows-i586-p.exe)

System Requirements for the Macintosh Sidecar

MassTransit Enterprise or MassTransit Professional Server

- If you're running MassTransit 5.0.2.x use Sidecar version 1.1.0.5
- If you're running MassTransit 5.1.1.x or later use Sidecar version 1.2.0.2

Mac OS X 10.4 or later (Client or Server)

Web Browser Requirements for Viewing the Dashboard Web Site

Macintosh:

Apple Safari version 3.0 later

Mozilla Firefox version 2.0 or later

Windows:

Microsoft Internet Explorer version 7 or later

Mozilla Firefox version 2.0 or later



Installing the Hub on Windows 2003

1. Install MySQL.
 - a. Install the MySQL Database 5.0.
 - b. [Optional] Install the MySQL Query Browser.
 - c. [Optional] Install the MySQL Administrator.
2. Install PHP 5.2. Download the zip package from <http://www.php.net>; the following instructions assume that your operating system is installed on the “C:\” drive.

NOTE: Do not download the installer; it does not contain some components required by the application.

- a. To install PHP 5.2 use the PHP zip package and extract the package into a directory called **php** (e.g. “C:\php”). It is strongly recommended that PHP be installed on the same drive as the operating system.

NOTE: If Stuffit Expander was used to open the PHP zip package and the required PHP files mentioned below are not present, try using another application to open the PHP zip package.

- b. Copy the *php.ini-dist* file from the **php** folder to your system directory (e.g. “C:\Windows\”) and rename it *php.ini*.

NOTE: All lines beginning with “;” in the *php.ini* file are considered commented and therefore ignored. You must uncomment all lines mentioned in the steps below.

- c. Change the line beginning with “display_errors =” as shown below. **display_errors = Off**
- d. Change the line beginning with “extension_dir =” as shown below. **extension_dir = “./ext”**
- e. Change the line beginning with “cgi.force_redirect =” as shown below. **cgi.force_redirect = 0**
- f. Add the following line to the Dynamic Extensions section of the *php.ini* file: **extension=php_mysql.dll**
- g. Change the line beginning with “session.cache_limiter =” as shown below. **session.cache_limiter = public**
- h. Make sure the **doc_root** parameter is either commented out or set to an empty string.

- i. Edit the following lines to enable PHP logging for troubleshooting purposes:

```
error_reporting = E_ALL  
log_errors = on  
error_log = "MT-PHPLog.log"
```

NOTE: Please note that for the error log to be written, the windows user account associated with the IIS web site that MassTransit will use (generally IUSR_COMPUTERNAME) needs to have write access to the log file. By default (if you don't specify a folder), the default log file location will be your webroot folder (C:\Program Files\Group Logic\Dashboard\UI\webroot). If you do not want to give the windows user account associated with the IIS web site full access to a folder, you may create an empty log file with this name manually and then grant that windows user account write access to that file only.

- j. After completing the above modifications to the php.ini file, please save the file and then close the application being used to edit the file.
- k. Verify that *php_mysqli.dll* library file is included in the "C:\php\ext\" directory.
- l. Copy the *libmysql.dll* file from "C:\php\" to "C:\Windows\System32\".
- m. Confirm that the PHP installation directory has appropriate system permissions.
 - i. Locate the directory where PHP has been installed. By default, this directory is **C:\php**.
 - ii. Right-click on this directory, and select "Properties" from the pull-down menu.
 - iii. Select the "Security" tab from the PHP Properties window.
 - iv. Confirm that the machine's "Network Service" user has **Read**, **Execute**, and **List** permissions for the PHP installation directory.

NOTE: The Network Service user rarely shows up explicitly, but is a member of the Users group. Depending on the security structure for the particular machine, you may want to add the **Users** group to the PHP folder (and propagate permissions downstream to the contained files and folders), or just add the Network Service user by itself.

More information regarding PHP installation on Windows can be found at <http://www.php.net/manual/en/install.windows.php>

3. Install J2SE(TM) Runtime Environment 5.0 Update 6, jre-1_5_0_06-windows-i586-p.exe. Select the Typical installation.



4. Put the Hub and UI folders in a directory of your choice; the default location that will be referred to throughout this document is C:\Program Files\Group Logic\Dashboard.
5. Configure IIS. If you need to create a virtual directory, go to step 6.
 - a. Open the IIS Manager from Control Panel → Administrative Tools.
 - b. Right-click on the Default Web Site entry located under the **Web Sites** folder and select **Properties**.
 - c. Select the **Home Directory** tab.
 - i. Click the **Browse** button to specify the **UI\webroot** folder. For the default installation path is:
C:\Program Files\Group Logic\Dashboard\UI\webroot
 - ii. Ensure that the **Read** checkbox is checked while the **Write** and **Directory browsing** checkboxes are unchecked.
 - iii. Change the **Execute Permissions** combo box to **Scripts Only**.
 - iv. Click the **Configuration** button under the Application Settings group.
 - v. Click the **Add** button and set the Executable path by clicking the **Browse** button. The default path should be as follows:
C:\php\php5isapi.dll
 1. Enter “.php” in the ‘Extension’ text field (no quotations).
 2. Verify the **Script engine** checkbox is checked. Click **OK** twice.
 - d. Go to the **Documents** tab and click the **Add** button, enter “index.php” (no quotations) in the Add Content Page window, and click **OK**. Move the “index.php” to the top by clicking the **Move Up** button.
 - e. Skip this step if you are configuring Dashboard on IIS version 5.0.
 - i. Select the **Web Service Extensions** folder and click **Add a new Web service extension**.
 - ii. Enter “PHP” in the Extension field and click **Add**.
 - iii. Select the ISAPI file by clicking the **Browser** button and select:
C:\php\php5isapi.dll
 - iv. Check **Set extension status to Allowed** and click **OK**.

- f. Enable write access for the Internet guest user (IUSR_<HOSTNAME>) to the “UI\parsed” and “UI\templates_c” folders, located in the Dashboard installation directory (typically C:\Program Files\Group Logic\Dashboard).
 - g. You must now restart IIS.
6. To configure IIS and create a virtual directory:
 - a. Open the IIS Manager from Control Panel → Administrative Tools. Right Click on the Default Web Site and select New → Virtual Directory. The Virtual Directory Creation Wizard Appears. Select **Next** to continue.
 - b. On the “Virtual Directory Alias” dialog, enter “dashboard” for the Alias; this name will be added to the default web site, i.e. http://<Default Web Site>/dashboard. Select **Next**.
 - c. On the “Web Site Content Directory” dialog enter the path to the Root folder located within the UI folder: C:\Program Files\Group Logic\Dashboard\UI\webroot. Select **Next**.
 - d. On the “Access Permissions” dialog, check the **Read, Run Scripts (such as ASP), and Execute (such as ISAPI applications or CGI)** checkboxes. Select **Next**.
 - e. Select **Finish** to continue.
 - f. Below the Default Web Site highlight the virtual directory you just created, right-click, and select Properties. Go to the Documents tab and verify **Enable default content page** is checked.
 - g. Go to the **Documents** tab and click the **Add** button, enter “index.php” (no quotations) in the Add Content Page window, and click **OK**. Move the “index.php” to the top by clicking the **Move Up** button
 - h. Click the **Apply** button and then click **OK** to close the Properties window.
 - i. Follow steps 5.e through 5.g to finish the IIS configuration.
 7. Configure the Hub configuration files located in C:\Program Files\Group Logic\Dashboard\Hub\App. The steps below provide basic setup instructions for the .cfg files and additional directions are contained in the files
 - a. Open the *hub.cfg* file and configure the following properties:
 - i. **hub_database_username**
hub_database_password
Username and password with which you wish to connect to the MySQL database. This user must have permission to create a new schema for the hub and will be used to access the database for the hub.
 - ii. **hub_hostname**
Host name (or IP address) of the hub.

NOTE: Any time you make changes to this configuration file you will need to restart the Hub so the changes take effect.

- b. [Optional] Configure *standard.cfg*.
 - c. [Optional] Configure *log4j.cfg*.
8. Open the User Interface configuration file - *dashboard.ini*, located in C:\Program Files\Group Logic\Dashboard\UI and configure the following properties:
 - a. **DB USER** =
DB PASSWORD =
User and password for accessing the MT database.
 9. The Dashboard Hub listens for incoming calls from the Sidecars. If there is a Firewall running on the computer, it might block the incoming calls. Therefore, you should add a Firewall exception for the listening port specified in the **hub.cfg** file (by default it is 10011).
 10. Install the Hub by double-clicking *installhub.bat* located in C:\Program Files\Group Logic\Dashboard\. Go to the Services Panel; a service should now appear named DBHub.
 11. Start the Hub service, DBHub, via the Services Panel. The Hub is now running. If you want the HUB to start up automatically right click on the DBHub in the Services Panel and go to Properties. Under the General Tab pick Automatic from the Startup type drop down menu. Then click Apply and OK.
 12. To verify that the Hub is running, open the log, *DBHub.output*, located at C:\Program Files\Group Logic\Dashboard\Hub\App. This log is created the first time the Hub is launched and is overwritten on all subsequent launches.

Installing the Hub on Windows 2008

1. Install MySQL.
 - a. Install the MySQL Database 5.0.
 - b. [Optional] Install the MySQL Query Browser.
 - c. [Optional] Install the MySQL Administrator.
2. Install PHP 5.2. Download the zip package from <http://www.php.net>; the following instructions assume that your operating system is installed on the “C:\” drive.

NOTE: Do not download the installer; it does not contain some components required by the application.

- a. To install PHP 5.2 use the PHP zip package and extract the package into a directory called **php** (e.g. “C:\php”). It is strongly recommended that PHP be installed on the same drive as the operating system.

NOTE: If Stuffit Expander was used to open the PHP zip package and the required PHP files mentioned below are not present, try using another application to open the PHP zip package.

- b. Copy the *php.ini-dist* file from the **php** folder to your system directory (e.g. “C:\Windows\”) and rename it *php.ini*.

NOTE: All lines beginning with “;” in the *php.ini* file are considered commented and therefore ignored. You must uncomment all lines mentioned in the steps below.

- c. Change the line beginning with “display_errors =” as shown below.
display_errors = Off
- d. Change the line beginning with “extension_dir =” as shown below.
extension_dir = “c:\php\ext”
- e. Change the line beginning with “cgi.force_redirect =” as shown below.
cgi.force_redirect = 0
- f. Add the following line to the Dynamic Extensions section of the *php.ini* file:
extension = php_mysql.dll
- g. Change the line beginning with “session.cache_limiter =” as shown below.
session.cache_limiter = public

- h. Make sure the **doc_root** parameter is either commented out or set to an empty string.
- i. Edit the following lines to enable PHP logging for troubleshooting purposes:

```
error_reporting = E_ALL  
log_errors = on  
error_log = "PHPLog.log"
```

NOTE: Please note that for the error log to be written, the windows user account associated with the IIS web site that Dashboard will use (generally IUSR) needs to have write access to the log file. By default (if you don't specify a folder), the default log file location will be your webroot folder (C:\Program Files\Group Logic\Dashboard\UI\webroot). If you do not want to give the windows user account associated with the IIS web site full access to a folder, you may create an empty log file with this name manually and then grant that windows user account write access to that file only.

- j. After completing the above modifications to the php.ini file, please save the file and then close the application being used to edit the file.
- k. Verify that *php_mysqli.dll* library file is included in the "C:\php\ext\" directory.
- l. Copy the *libmysql.dll* file from "C:\php\" to "C:\Windows\System32\".
- m. Confirm that the PHP installation directory has appropriate system permissions.
 - i. Locate the directory where PHP has been installed. By default, this directory is **C:\php**.
 - ii. Right-click on this directory, and select "Properties" from the pull-down menu.
 - iii. Select the "Security" tab from the PHP Properties window.
 - iv. Confirm that the machine's "Network Service" user has **Read**, **Execute**, and **List** permissions for the PHP installation directory.

NOTE: The Network Service user rarely shows up explicitly, but is a member of the Users group. Depending on the security structure for the particular machine, you may want to add the **Users** group to the PHP folder (and propagate permissions downstream to the contained files and folders), or just add the Network Service user by itself.

More information regarding PHP installation on Windows can be found at <http://www.php.net/manual/en/install.windows.php>

3. Install J2SE(TM) Runtime Environment 5.0 Update 6, jre-1_5_0_06-windows-i586-p.exe. Select the Typical installation.
4. Put the Hub and UI folders in a directory of your choice; the default location that will be referred to throughout this document is C:\Program Files\Group Logic\Dashboard.
5. Configure IIS. If you need to create a virtual directory, go to step 6. Please note that IIS is not installed by default in some Windows installations. For instructions on installing IIS 7 on Windows 2008, please refer to <http://learn.iis.net/page.aspx/29/installing-iis7-on-windows-server-2008/>. **Make sure you include the ISAPI Extension component during the IIS installation.** The official Microsoft IIS web site is <http://www.iis.net>.
 - a. Open the IIS Manager from Control Panel → Administrative Tools.
 - b. In the **Connections** pane, expand the server name, expand **Sites** then click on the **Default Web Site** entry to display the IIS configuration **Home** pane.
 - c. On the right, go to the **Actions** pane, under **Edit Site** click **Basic Settings...**
 - i. Next to **Physical path** field click on the ... button to specify the **webroot** folder. By default, the Dashboard installation path is: C:\Program Files\Group Logic\Dashboard\UI\webroot.
 - ii. Click **OK**.
 - d. From the **Home** pane, double click the **Handler Mappings** icon.
 - i. In the **Actions** pane click **Add Script Map...**
 - ii. In the **Request path** field enter “*.php” (no quotations).
 - iii. In the **Executable** field click the ... button. The default path should be: **C:\php\php5isapi.dll**
 - iv. In the **Name** field enter “**PHP**” (no quotations).
 - v. Click **OK**.
 - vi. If a dialog prompting to allow this ISAPI extension appears, click **Yes**.
 - e. Under the **Connections** pane click on the Default Web Site. Then double click **Default Document**.
 - i. Under the **Actions** pane click **Add...**
 - ii. In the **Name** field enter “**index.php**” (no quotations).
 - iii. Move the “index.php” to the top by clicking **Move Up** from the **Actions** pane.
 - f. Enable write access for the Internet guest user (IUSR) to the “UI\parsed” and “UI\templates_c” folders, located in the Dashboard installation directory (typically C:\Program Files\Group Logic\Dashboard).

- g. You must now restart IIS.
6. To configure IIS and create a virtual directory:
- a. Open the IIS Manager from Control Panel → Administrative Tools. In the **Connections** pane, expand the server name, expand **Sites** then click on the **Default Web Site** entry to display the IIS configuration **Home** pane.
 - b. On the right, go to the **Actions** pane, click **View Virtual Directories**.
 - c. In the **Actions** pane click **Add Virtual Directory...**
 - i. In the **Alias** field enter “**dashboard**” (no quotations); this name will be added to the default web site, i.e. http://<Default Web Site>/dashboard.
 - ii. In the **Physical path** field enter the path to the root folder located within the UI folder: **C:\Program Files\Group Logic\Dashboard\UI\webroot**.
 - iii. Click **OK**.
 - d. Below the Default Web Site highlight the virtual directory you just created. Double click on the **Default Document** from the **Home** pane.
 - i. Make sure there isn't an alert that the default document is disabled above the **Actions** pane. If there is such alert, click on the **Enable** button in the **Actions** pane.
 - ii. In the **Actions** pane click **Add...**
 - 1. Enter “**index.php**” (no quotations) in the **Name** field of the **Add Default Document** dialog that appears.
 - 2. Click **OK**.
 - iii. Move the “index.php” to the top by clicking **Move Up** from the **Actions** pane.
 - e. Below the Default Web Site highlight the virtual directory you just created. From the **Home** pane, double click the **Handler Mappings** icon.
 - i. In the **Actions** pane click **Add Script Map...**
 - ii. In the **Request path** field enter “***.php**” (no quotations).
 - iii. In the **Executable** field click the ... button. The default path should be: **C:\php\php5isapi.dll**
 - iv. In the **Name** field enter “**PHP**” (no quotations).
 - v. Click **OK**.
 - vi. If a dialog prompting to allow this ISAPI extension appears, click **Yes**.

- f. Follow steps 5.f through 5.g to finish the IIS configuration.
7. Configure the Hub configuration files located in C:\Program Files\Group Logic\Dashboard\Hub\App. The steps below provide basic setup instructions for the .cfg files and additional directions are contained in the files.
 - a. Open the hub.cfg file and configure the following properties:
 - i. **hub_database_username**
hub_database_password
Username and password with which you wish to connect to the MySQL database. This user must have permission to create a new schema for the hub and will be used to access the database for the hub.
 - ii. **hub_hostname**
Host name (or IP address) of the hub.

NOTE: Any time you make changes to this configuration file you will need to restart the Hub so the changes take effect.
 - b. [Optional] Configure *standard.cfg*.
 - c. [Optional] Configure *log4j.cfg*.
8. Open the User Interface configuration file - *dashboard.ini*, located in C:\Program Files\Group Logic\Dashboard\UI and configure the following properties:
 - a. **DB USER =**
DB PASSWORD =
User and password for accessing the MT database.
9. The Dashboard Hub listens for incoming calls from the Sidecars. If there is a Firewall running on the computer, it might block the incoming calls. Therefore, you should add a Firewall exception for the listening port specified in the **hub.cfg** file (by default it is 10011).
10. Install the Hub by double-clicking *installhub.bat* located in C:\Program Files\Group Logic\Dashboard\Hub. Go to the Services Panel; a service should now appear named DBHub.
11. Start the Hub service, DBHub, via the Services Panel. The Hub is now running. If you want the HUB to start up automatically, right click on the DBHub in the Services Panel and go to Properties. Under the General Tab, pick Automatic from the Startup type drop down menu. Then click Apply and OK.
12. To verify that the Hub is running, open the log, DBHub.output, located at C:\Program Files\Group Logic\Dashboard\Hub\App. This log is created the first time the Hub is launched and is overwritten on all subsequent launches.

Adding a User to the Hub's Database

When the Dashboard application is first started a default Administrator user is created. To bring up the Dashboard login page web site, go to <http://ipaddress> or <http://ipaddress/dashboard> (if you configured IIS with virtual directory). Login with user name "Admin" and leave the password blank. You should change this password once you've logged in; step 4 explains how to edit a user's account.

1. To add a new user, select the Admin tab, select the **Add User** button.
2. All of the information requested is required. Select the **Submit** button once all fields are complete.
3. The user now appears on the Users List.
4. To modify a user account, select **Edit** in the Actions column of the desired user, change the desired information, and select **Submit** once all fields are complete.

Adding a Server to the Dashboard

1. Log on to the Dashboard web site as a user with Administrator privileges.
2. Via the Servers tab, select the **Add Server** button.
3. All of the information requested is required. Select the **Submit** button once all fields are complete.

NOTE: If you choose **Yes** from the **Call Sidecar** drop-down menu the Dashboard Hub will call the Sidecar on a periodic basis. If there is a Firewall running on the server you just added, it might block the incoming calls. Therefore, you should add a Firewall exception for the listening port specified in the **sidecar.cfg** file (by default it is 10011).

4. The server now appears on the Servers List.

NOTE: The Hub does not need to be restarted every time a server is added. The Hub does need to be restarted if a server is updated or deleted.

Installing the Sidecar on Windows

Sidecars are installed locally on machines running MassTransit 5.0+ Enterprise or Professional Servers. If you're running MassTransit 5.0.2.x, use Sidecar version 1.1.0.5; if you're running MassTransit 5.1.1.x, use Sidecar version 1.2.0.2. This document assumes that both MySQL and MassTransit are already installed.

1. Install the latest MassTransit hot fix by dropping the contents of the hot fix directory into the MassTransit install directory or by running the installer. You may safely replace duplicate files. To get a copy of the latest hot fix, you may either contact Support at support@grouplogic.com or download it from <http://www.grouplogic.com/files/glidownload/mtreleases.cfm>.

NOTE: Always make a back up before installing the latest hot fix. If MTWeb is configured, you will need to reconfigure the MTWeb.ini as this file is overwritten during installation. Follow the hot fix installation instructions for proper configuration of the MTWeb.

2. Enable SOAP in MassTransit. Open *MassTransit.cfg*; its default installation location is C:\Program Files\Group Logic\MassTransit Server 6\Extras.
 - a. Uncomment (delete the “%%”) the ENABLE_SOAP_API and set the flag to TRUE.
 - b. Uncomment (delete the “%%”) the SOAP_API_PORT flag.
 - c. Copy the *MassTransit.cfg* file to the MassTransit Server 5 directory.

NOTE: You must restart the MassTransit Engine so the changes to *MassTransit.cfg* take effect.

3. Install J2SE(TM) Runtime Environment 5.0 Update 6, jre-1_5_0_06-windows-i586-p.exe. Select the Typical installation.
4. Put the Sidecar folder anywhere on your machine; the default location that will be referred to throughout this section is, C:\Program Files\Group Logic\Sidecar.
5. Configure the sidecar configuration files located in C:\Program Files\Group Logic\ Sidecar\App. The steps below provide basic setup instructions for the .cfg files and additional directions are contained in the files.
 - a. Open the *sidecar.cfg* file and configure the following properties:
 - i. **mt_database_username**
 - mt_database_password**

Username and password with which you wish to connect to the MassTransit database. This user must have permission to read from the database.

- ii. **sidecar_hostname**
Host name (or IP address) of the sidecar.
- iii. **hub_hostname**
Host name (or IP address) of the hub.

NOTE: Any time you make changes to this configuration file you will need to restart the Sidecar so the changes take effect.

- b. [Optional] Configure *standard.cfg*.
 - c. [Optional] Configure *log4j.cfg*.
6. Install the Sidecar by double-clicking *installsidecar.bat* located in C:\Program Files\Group Logic\Sidecar. Go to the Services Panel; a service should now appear named DBSidecar.
 7. Start the Sidecar service, DBSidecar, via the Services Panel. The Sidecar is now running. If you want the DBSidecar to start up automatically right click on the DBSidecar in the Services Panel and go to Properties. Under the General Tab pick Automatic from the Startup type drop down menu. Then click Apply and OK.
 8. To verify that the Sidecar is running, open the log, *DBSidecar.output*, located at C:\Program Files\Group Logic\Dashboard\Sidecar\App. This log is created the first time the Sidecar launches and is overwritten on all subsequent launches.

Installing the Sidecar on Macintosh

Sidecars are installed locally on machines running MassTransit 5.0+ Enterprise or Professional Servers. If you're running MassTransit 5.0.2.x, use Sidecar version 1.1.0.5; if you're running MassTransit 5.1.1.x.x, use Sidecar version 1.2.0.2. This document assumes that both MySQL and MassTransit are already installed.

NOTE: J2SE(TM) Runtime Environment 5.0 is installed by default on Mac OS X.

1. Install the latest MassTransit hot fix by dropping the contents of the hot fix directory into the MassTransit install directory or by running the installer. You may safely replace duplicate files. To get a copy of the latest hot fix, you may either contact Support at support@grouplogic.com or download it from <http://www.grouplogic.com/files/glidownload/mtreleases.cfm>.

NOTE: Always make a back up before installing the latest hot fix. If MTWeb is configured, you will need to reconfigure the MTWeb.ini as this file is overwritten during installation. Follow the hot fix installation instructions for proper configuration of the MTWeb.

2. Enable SOAP in MassTransit. Open *MassTransit.cfg*; its default installation location is OS X:Applications:MassTransit Server 6:Extras.
 - a. Uncomment (delete the “%%”) the ENABLE_SOAP_API and set the flag to TRUE.
 - b. Uncomment (delete the “%%”) the SOAP_API_PORT flag.
 - c. Copy the *MassTransit.cfg* file to the MassTransit Server 5 directory.

NOTE: You must restart the MassTransit Engine so the changes to the *MassTransit.cfg* file take effect.

3. Create a folder on your machine named Sidecar; the default location that will be referred to throughout this section is: OS X :Applications:Sidecar.
4. Configure the sidecar configuration files located in, OS X:Applications:Sidecar:App. The steps below provide basic setup instructions for the .cfg files and additional directions are contained in the files
 - a. Open the *sidecar.cfg* file and configure the following properties:
 - i. **mt_database_username**
 - mt_database_password**



Username and password with which you wish to connect to the MassTransit database. This user must have permission to read from the database.

- ii. **sidecar_hostname**
Host name (or IP address) of the sidecar.
- iii. **hub_hostname**
Host name (or IP address) of the hub.

NOTE: Any time you make changes to this configuration file you will need to restart the Sidecar so the changes take effect.

- b. [Optional] Configure *standard.cfg*.
 - c. [Optional] Configure *log4j.cfg*.
5. To launch the Sidecar, double-click Sidecar.app located in, OS X:Applications:Sidecar. The script icon will appear on the dock when the Sidecar is running.
 6. To verify that the Sidecar is running, open the log, DBSidecar.output, located at OS X:Applications:Sidecar:App. This text file is created the first time the Sidecar is launched and is overwritten on all subsequent launches.

Configuring the Dashboard for NAT'ed Networks

1. A NAT'ed server that runs a receiving Dashboard component (the one that receives incoming connections) has to be identifiable by the same fully qualified DNS name both on the outside and on the inside networks. For instance, an internal NAT'ed server `mtdashboard-02.grouplogic.com` resolves to `192.168.x.x` on the intranet and to `x.x.x.x` on the Internet.
2. The sending Dashboard component (the one that initiates outgoing connections) has to refer to the respective receiving component using that DNS name. For instance, Sidecars connecting to the Hub running on the server described above have to set the `hub_hostname` parameter to `mtdashboard-02.grouplogic.com`
3. The script that installs and / or runs the receiving Dashboard component (these include `installhub.bat` and `hub.bat` for the Hub on Windows, `installsidecar.bat` and `sidecar.bat` for the Sidecar on Windows, and `Sidecar.app` AppleScript for the Sidecar on Mac) has to be modified in the following way: the command that invokes the JVM has to have an additional parameter `java.rmi.server.hostname` set to the fully qualified DNS name. In the above example, the line beginning with `java -Xms64m -Xmx1024m -cp .;hub.jar ...` in the `installhub.bat` and `hub.bat` batch files would change to:
`java -Xms64m -Xmx1024m -Djava.rmi.server.hostname=mtdashboard02.grouplogic.com -cp .;hub.jar ...`

NOTE: The white spaces between parameters have to be observed.

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Version History

Version	Date	Author	Changes
1.0	6/30/06	CM	Created.
1.1	6/30/06	AC	Updated.
1.1a	7/03/06	MEA	Updated.
1.2	9/24/06	CM	Updated.
1.3	02/23/07	CM	Updated for 5.0.2x16.
1.4	04/20/07	CM/AC	Updated for NAT'ed networks.
1.5	12/10/08	HVL	Updated for 6.0.
1.6	09/12/09	EB	Updated for 6.0.2
1.7	01/25/10	EB	Updated for Windows 2008