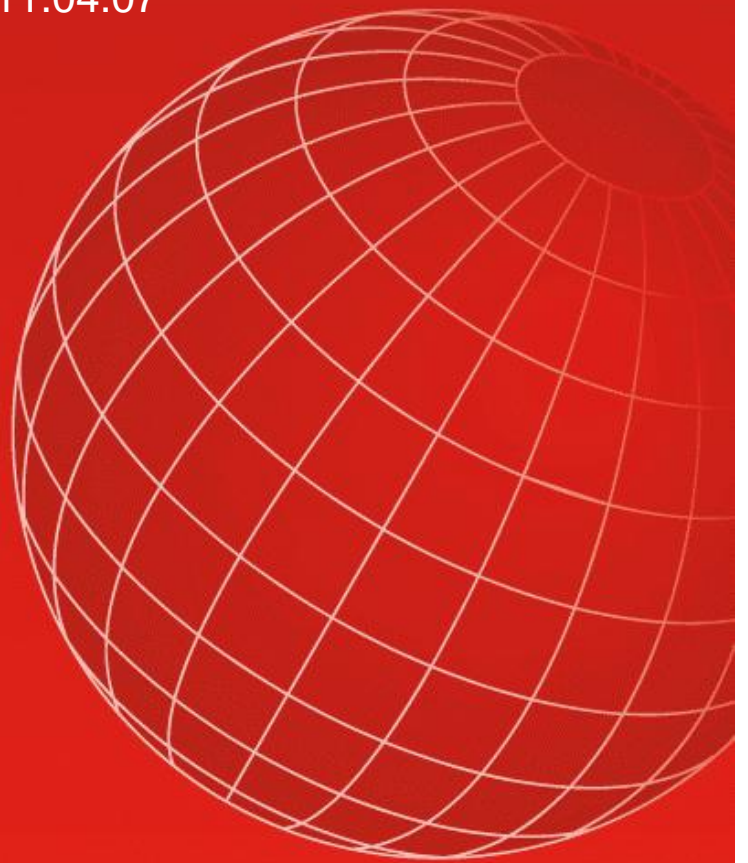


# Communicate

## **MTM version 5.0 User Guide**

2011.04.07





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## 1. About Message Tracking Monitor, MTM

MTM is a tool for monitoring and tracking messages in a BizTalk application. Its purpose is to:

Show all messages inbound and outbound with

- Sender
- Receiver
- Time
- Messagetype
- Messageld
- State

MTM has a database where this information is stored. Both the inbound and the outbound files are stored in this database.

We have developed pipeline components that are to be used in BizTalk pipelines in order to gather the information into the MTM database. These components communicate with MTM using MSMQ and SOA to transfer the data. The users of the system decide how long the messages should be saved in the database.

### Other functions

You have the possibility to search for message specific data in MTM. You can have multiple criteria per messagetype. These are defined in the Admin user interface. MTM has an integration with BizTalk and it is possible to resume or terminate messages with status "Suspended"



## 2. Installation

This section describes a new installation of MTM and upgrading from version 4.0 to version 5.0.

### 2.1 Prerequisites

Server:

- Microsoft .NET 2.0 Framework
- Microsoft .NET 3.5 Framework
- Microsoft .NET 3.5 SP1
- Microsoft SQL Server 2005 or higher.
  - Full text search must be installed
  - Mixed mode authentication must be enabled
  - Remote connections must be enabled
- MSMQ (Microsoft Message Queuing)
- Internet Information Server 6 or higher
  - If using IIS 7.0, the IIS 6 Management compatibility must be installed.
  - If using IIS 7.0, 32 bit applications must be enabled on the application pool defaults.
  - If using IIS 6.0 in 64 bits mode, 32 bit version must be enabled (<http://support.microsoft.com/kb/894435>)
- ASP .NET 2.0 installed on the Internet Information Server.
  - If using IIS 6.0 in 64 bits mode, the ASP.NET 2.0 32 bits must be installed and ASP.NET version 2.0.50727 (32-bit) is set to Allowed in the Web service extension list in Internet Information Services Manager (<http://support.microsoft.com/kb/894435>)
- Microsoft Report Viewer Redistributable 2010
- To use Database job functionality see [Prerequisites and setup for database jobs](#)

Client:

- Internet Explorer 7 or higher

### 2.2 Installing MTM 5.0

All installations of MTM features are initiated through running “Message Tracking Monitor 5.0 Setup.exe”. During installation, you are given an option of doing a complete installation or a custom installation. A custom installation lets you choose what features to install.

The features are as follows:





## **Web**

Contains all the MTM components hosted in IIS

### **Front end**

Front end web for searching through and performing actions on logged messages as well as doing administrative tasks.

### **Services**

Web services used by the MTM windows service and the MTM web for interacting with the MTM database.

### **BizTalk service**

Web service used by the MTM windows service and the MTM web for interacting with BizTalk.

### **Windows service**

The MTM windows service is responsible for processing logged messages from the MTM MSMQ as well as handling suspended, terminated and dehydrated events from BizTalk.

### **BizTalk components**

Core MTM components used by the pipelines and MTM windows service to log and process messages from BizTalk.

### **Pipelines**

Standard pipelines supplied with MTM. Includes an xml receive, pass through receive and application receipt pipelines.

### **Documentation**

Documentation for MTM.

### **Log viewer**

Log viewer for viewing MTM error logs.

### **Database setup**

Database setup packages for installing and upgrading MTM databases and MTM archival databases.



For a single server installation, a complete install is recommended. For a distributed installation, you run the installation on all individual servers and do a custom install on each to install only the features you want to run on that server. An example of such an install can be seen in section 2.2.1 below.

### 2.2.1 Example of a distributed installation scenario

The following scenario is an example of how to install MTM in a distributed environment of serves.

We have a dedicated web server where we intend to host all the web components. We have a second server for Microsoft BizTalk and SQL.

We'll start by making a user who is a member of the BizTalk administrators and Enterprise SSO groups. This user will be needed at a later time.

1. **On the web server**, we'll install all the web parts (front end web, MTM services and MTM BizTalk service). We'll also install the documentation for sake of convenience and the log viewer so that we can view any errors occurring in the web and services with ease.
2. Configure the MTM services according to section 2.2.4 so it knows how to interact with the MTM database.
3. Configure the MTM BizTalk service according to section 2.2.5 so it knows how to interact with BizTalk.
4. If MTM services and BizTalk service are installed on a different server, you will need to configure the references to MTM services and BizTalk service in the MTM web (section 2.2.6). If they are installed on the same server this will work by default without configuration.
5. Install the MTM license key in accordance with section 2.2.7.
6. **On the other server**, we'll install everything except the web components, again using the installation package.
7. We'll then start by creating the database and the database users by following 2.2.2.
8. Next, we need a Microsoft Message Queue to write log objects to and from. We'll do this by following 2.2.3. In this case, we'll install the MSMQ on the same machine as the BizTalk installation and SQL server installation. For added transactional safety, this can be placed on a third separate server.  
The pipelines which log using the MTM pipeline components log to this MSMQ, using the featured MTM BizTalk Components. The windows service which is responsible for taking these entries and inserting them into the database also makes use of the MTM BizTalk Components.
9. The pipelines and windows service have to know where and how to log, so we will configure BizTalk components according to 2.2.8 so that it



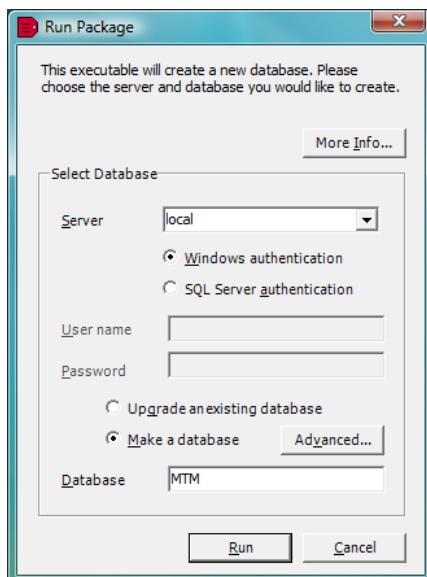
points to our recently created queue and point to the machine where the MTM services are installed.

10. We'll need to setup the windows service to run with a user who has sufficient privileges to interact with BizTalk. We previously created a user with proper group membership so we'll follow 2.2.10 to configure the windows service to run with this user.
11. Finally, we will install the MTM pipelines according to 2.2.9.

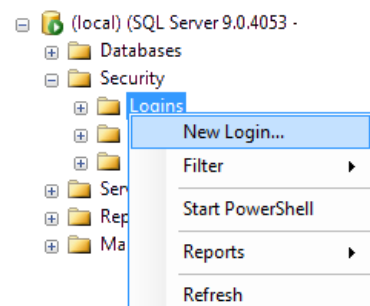
Our installation is now complete and any traffic going through an MTM pipeline is now logged.

### 2.2.2 Creating database

1. Start the database setup by clicking [ Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Database > Create database ]. This will show the following user interface

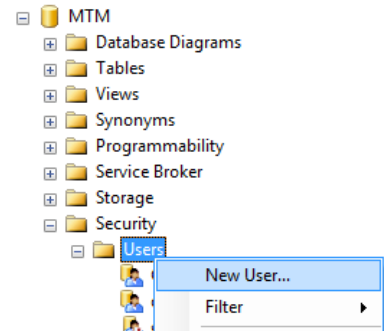


2. Select a server and supply credentials for a user with sufficient privileges to create a database
3. Enter a database name and press [Run]. Wait while the database is created
4. Create a login at server level for MTM on the database server.



Recommended default name is MTM, add a password, the default password is mtm. Remove the “Enforce password policy” flag and click “OK” to create the user.

1. Create a user at database level based on the created server login. Give this user the db\_owner membership. Click “OK” to save this user.



2. As stated in the prerequisites, make sure the server authentication type on the database server is set to “SQL Server and Windows Authentication Mode”. This is accessed through right-clicking the SQL server and choosing properties. The setting is found under the security page. Make sure that the “Allow remote connections to this server” is checked, this is found under the “Connections” page
3. The database is now ready for use

### 2.2.3 Microsoft Message Queuing

1. Install MSMQ through Start – Control Panel – Add/Remove Programs – Add/Remove Windows Components – Application Server – Message Queuing
2. Create a private queue through Computer Management – Services And Applications – Message Queuing – Private Queues. Rightclick ”Private Queues” and choose New – Private Queue. The default name used in the configuration file is : msmqueue.
3. Set sufficient rights on the queue – right click on the queue select “Properties” and the “Security” tab. Add the “BizTalk Server Administrators” group and give





this user "Full Control" permission on the queue. Add the "Biztalk Application Users" group and give this group "send" permission on the queue.

4. The message queue is now ready for use by MTM

## 2.2.4 Configure MTM services

1. Edit the configuration settings so that MTM services knows how to connect to the MTM database. The configuration file is opened through Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Configuration > Services config

```
<connectionStrings>  
  <add name="MTMConnection" connectionString="Data Source=localhost;Initial Catalog=MTM;  
    Persist Security Info=True;User ID=MTM;Password=mtm" providerName="System.Data.SqlClient"/>  
</connectionStrings>
```

2. Find and modify the part above to fit your configuration.  
Data Source = server  
Initial Catalog = database name  
User id = username for the MTM database  
Password = password for the MTM database user
3. MTM services are now ready for use

## 2.2.5 Configure MTM BizTalk service

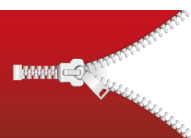
1. Edit the configuration settings so that MTM BizTalk service knows how to connect to BizTalk. The configuration file is opened through [ Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Configuration > BizTalk service config ]

```
<identity impersonate="true" userName="domain\username"  
password="password"/>
```

2. Find and change the line above to a valid user/password. It is recommended that this user is included in the BizTalk administrators group.

```
<add name="BTConnection" connectionString="Integrated Security=SSPI;  
Server=localhost; Database=BizTalkMgmtDb"/>
```

3. Find and verify the above line to make sure the server property is correct
4. MTM BizTalk service is now ready for use



## 2.2.6 Configuring MTM web

1. Edit the configuration settings so that the MTM web knows how to connect to MTM services and MTM BizTalk service. This is only necessary as part of a distributed install where MTM web and MTM Services are installed on different machines. The configuration file is opened through [ Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Configuration > web config ]

```
<add key="MessageTypeServiceProxy.MessageTypeService" value="http://localhost/MTMServices/MessageTypeService.asmx"/>
<add key="MessagePartnerServiceProxy.MessagePartnerService" value="http://localhost/MTMServices/MessagePartnerService.asmx"/>
<add key="MessageServiceProxy.MessageService" value="http://localhost/MTMServices/MessageService.asmx"/>
<add key="UserServiceProxy.UserService" value="http://localhost/MTMServices/UserService.asmx"/>
<add key="StatisticsServiceProxy.StatisticsService" value="http://localhost/MTMServices/StatisticsService.asmx"/>
<add key="SearchFieldProxy.SearchFieldsWrapperService" value="http://localhost/MTMServices/SearchFieldsWrapperService.asmx"/>
<add key="BiztalkManagerServiceProxy.BiztalkManagerService" value="http://localhost/NTMBiztalkService/BiztalkManagerService.asmx"/>
```

2. Find the lines above and change the server "localhost" or the path MTM services \ MTM BizTalk service as needed

## 2.2.7 Enter license key

1. Edit the license file and fill out your license information. The license file can be reached through [ Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Configuration > License file ]
2. Restart Internet Information Services (IIS)
3. MTM web is now ready for use

## 2.2.8 Configuring BizTalk components

1. Open the MTM configuration file by clicking [ Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Configuration > MTM config ]

```
<MessageTypeService url="http://localhost/MTMServices/MessageTypeService.asmx"/>
<MessagePartnerService url="http://localhost/MTMServices/MessagePartnerService.asmx"/>
<MessageService url="http://localhost/MTMServices/MessageService.asmx"/>
```

2. Find and modify the above lines to conform to your server \ install path configuration. This needs to be changed if the MTM services reside on a different machine than where the BizTalk components are installed.

```
<MSMQQueue value=".\\private$\msmqqueue"/>
```

3. Find and modify the above lines to conform to the message queue you created in section 2.2.3, or use default.
4. BizTalk components is now ready for use





## 2.2.9 MTM pipelines

1. Run the setup for the MTM pipelines by clicking [ Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Pipelines > Pipelines setup ]
2. Setup for MTM pipelines will start. Follow instructions on screen to complete installation
3. To import the MSI into BizTalk, we recommend that you create dedicated a BizTalk application to host the pipelines.
4. After creating the application, right-click it and press Import – Msi File. Follow the wizard to finish importing the pipeline.
5. Add a reference to this application from the applications that you intend to use the pipelines from.
6. The pipelines are now ready for use.

## 2.2.10 Configuring MTM windows service

1. Go to the services pane through service
2. Start the MTM Windows Service through Start – Control Panel – Administrative Tools – Services
3. Right click MTM Service 5.0, click properties and go to the "Log On" tab. Change the user to a user that is included in the BizTalk administrators group and the Enterprise SSO Administrators group.
4. Start the MTM Windows Service.
5. If you run multiple servers, repeat step 1 through 4 on each of them

## 2.3 Upgrading from MTM 4.0 to 5.0

It is recommended to stop all message traffic using MTM in BizTalk while the upgrade is in progress. To make the install go as cleanly as possible, we recommend fully uninstalling MTM web, MTM services, MTM BizTalk service, MTM BizTalk components and the MTM windows service before starting to install version 5.0.

Taking a backup of the web.config of MTM web, MTM services and MTM BizTalk service as well as c:\mtm\mtm30.config is recommended if there have been changes made to these files.

You can then follow the installation guide section 2.2 and use a custom install to install the newer versions of the components you've uninstalled.

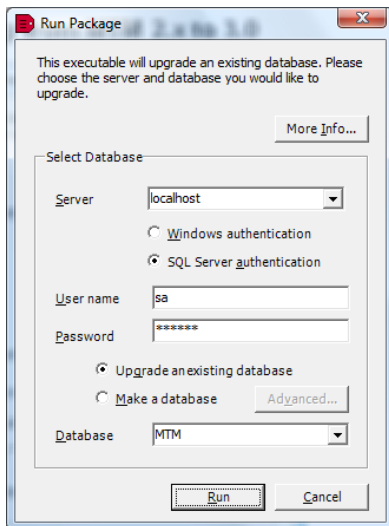
Upgrading the database is covered in section 2.3.1.

.



## 2.3.1 Database

1. Backup existing MTM database.
2. Start the database upgrade setup by clicking [ Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Database > Upgrade 4.0 database ]. This will show the following user interface



3. Select a server and supply credentials for a user with sufficient privileges to update the database
4. Make sure no traffic will try to access the MTM database while the upgrade is performed.
5. Choose the database to upgrade and press [Run]. Wait while the database is updated
6. The MTM database is now updated to 5.0

## 3. How to use MTM

### 3.1 Login

MTM is a web based solution. You have to enter a username and a password to get access.



### Enter credentials

---

**Username:**

**Password:**

**Remember me**

**Use AD user**

The login supports both “Remember me” and Active Directory (AD) integration and these functions are configurable (turn on/off) from web config file.

```
<add key="UseAD" value="true" />  
<add key="AllowRememberMe" value="true" />
```

- **Remember me:** If this is checked when logging in the user will be automatically logged in at next visit.
- **Active Directory:** If the AD user is registered in MTM or member of an AD group registered in MTM the user will be automatically logged in. The first time a user logs in based on a AD group the user will be automatically created in the system.

If both AD and “Remember me” are used at the same time the “Remember me” functionality will get priority.

For user and group administration see MTM Admin.

#### 3.1.1 Settings for AD

The MTM web must disable anonymous authentication to use AD login. Add the user or group in the admin module as DOMAIN\Username or DOMAIN\Group. See the section 5.1 for more information.



### 3.2 MTM Main

**Message Tracking Monitor** Admin Reports Current user: MTMAdmin

---

**Search**

Message details (...)

Period Period

29.03.2010 00:00

29.03.2011 23:59

Search in files Search in files

Advanced search (...)

Search Reset

**Message actions** Total number of records: 767

MTM Id	Document Id	Message type	Time	Sender	Receiver	Status	
4477		Receipt	09.03.2011 15:28:04	Default	Default	Success	
4478		Overseas order	09.03.2011 15:33:02	Sender	Mottaker	Error	
4479		Overseas order	09.03.2011 15:33:33	Sender	Mottaker	Error	
4480	Bjarne_60	Overseas order	09.03.2011 15:34:09	Sender	Mottaker	Running	
4481		Receipt	09.03.2011 15:34:26	Default	Default	Success	
4482	Bjarne_61	Overseas order	09.03.2011 15:35:37	Sender	Mottaker	Running	
4483		Receipt	09.03.2011 15:35:45	Default	Default	Success	
4484	Bjarne_62	Overseas order	09.03.2011 15:38:06	Sender	Mottaker	Success	
4485		Receipt	09.03.2011 15:38:32	Default	Default	Success	
4486	Bjarne_63	Overseas order	09.03.2011 15:47:24	Sender	Mottaker	Success	
4487		Receipt	09.03.2011 15:48:12	Default	Default	Success	

1 2 3 4 5 6 7 8 9 10 ...

**Details for message 4484** Default UTF-8

Log Id	Time	Description	Status	File name	Receiver	Direction
14688	09.03.2011 15:38:06	Received message	Running	InFileTest.xml	Mottaker	←
14689	09.03.2011 15:38:06	Message identified	OK	...	Mottaker	
14690	09.03.2011 15:38:06	Processing send	Success	c3ade585-3d83-493e-85db-d7aa893dcd6a.xml	Default	→
14692	09.03.2011 15:38:32	Received messages	Success	Correlation.xml	Default	

MTM is divided into 4 main sections:

1. Search area to the left
2. Header area on the top
3. Messages middle right
4. Message log bottom right.
5. Footer area.



### 3.2.1 Search area

The search area has 3 levels of detailed views to search for messages:

The image shows three screenshots of the search interface, illustrating different levels of detail:

- Left screenshot (fully collapsed):** Shows the 'Search' area with 'Message details (...)' collapsed. It includes a 'Period' section with date and time pickers (01.03.2010 00:00 and 16.03.2010 23:59), a 'Search in files' text input, and an 'Advanced search (...)' section. Search and Reset buttons are at the bottom.
- Middle screenshot (expanded 'Message details'):** Shows 'Message details ()' expanded. It includes a 'Document ID' input, dropdowns for 'Choose sender', 'Choose receiver', 'Choose status', and 'Choose messagetype', a 'Period' section with date and time pickers, a 'Search in files' text input, and an 'Advanced search (...)' section. Search and Reset buttons are at the bottom.
- Right screenshot (fully expanded):** Shows the search area fully expanded. It includes a 'Document ID' input, dropdowns for 'Choose sender', 'Choose receiver', 'Choose status', and 'Prøvesvar', a 'Period' section with date and time pickers, a 'Search in files' text input, an 'Advanced search ()' section with a 'Choose Stored Search' dropdown, a 'Save current search' checkbox, a 'Name of search' input, a 'User defined field search:' section with a 'Choose field' dropdown and a 'Value' input, and an 'Elements in list:' input set to 10. Search and Reset buttons are at the bottom.

In the simplest version of the search area (fully collapsed), you can define two search parameters; 'Period' and 'Search in files'.

The default period is today and search in files gives the user possibility to search for any word or phrase in the file.

If the “**Message Details**” is expanded you can also define parameters for

- Document ID
- Sender
- Receiver
- Status
- Message Type



Document ID is a user defined field in the message. The “Message Type”, “Sender” and “Receiver” search filters are defined in the Admin module.

When the “**Advanced search**” is expanded you can define parameters for User defined field search. This area is only visible if the selected message type has user defined fields. These fields are defined in the Admin module, to make it possible to search for content at predefined XPath locations in the messages. These values are optimized in the database for fast search. The advanced search area also provides the possibility to save or use a previous saved search. MTM displays all messages found based on the search criteria’s.”Elements in list” sets the number of messages shown in the message list. The default number is read from web config

```
<add key="ElementsInList" value="10" />.
```

It is possible to turn off the visibility of the search in files ability. This is controlled through the web.config of the website and will affect all users regardless of access level. This configuration setting is controlled by the following segment.

```
<add key="ShowFreeTextSearch" value="true"/>
```

Valid values for the value segment is “true” and “false”.

### 3.2.1.1 Saving a search

By checking the “save current search” checkbox, you will be able to give this search a name and it will be saved when clicking the search button. All parameters except the dates will be saved. To use a stored search choose from the stored search dropdown box on the top of the “Advanced search” area.

### 3.2.1.2 User defined search with AND/OR

It is possible to turn off the visibility of the user defined search. This is controlled through the web.config of the website and will affect all users regardless of access level. This configuration setting is controlled by the following segment.

```
<add key="UserDefinedSearch" value="true"/>
```

Valid values for the value segment is “true” and “false”.





**Search**

---

**Message details ( )**

Document ID

MTM ID

Choose sender

Choose receiver

Choose status

Prøvesvar

**Period**

01.02.2011 00:00

01.02.2011 23:59

**Search in files Search in files**

**Advanced search ( )**

Choose Stored Search

Save current search

Name of search

**User defined field search:**

to

Partner B

And/Or:  And  Or

Search field	Value	
from	Partner A	<a href="#">Delete</a>
to	Partner B	<a href="#">Delete</a>

Elements in list:

### 3.2.2 Header area

The header area provides a simple and easy menu and current user information.

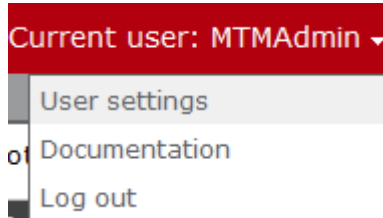
The links:

1. Reports, opens the reports form



2. Admin, opens the admin form

The user menu:



1. User settings  
Open a form where the user is able to set what columns to show in the "Message area" and how many elements to show as default in the message list result. These settings are saved in a cookie for the current user.
2. Documentation  
Opens the MTM documentation as a PDF file.
3. Log out  
Logs current user out of MTM

3.2.3 Message area

This area lists all the messages, according to the search parameters given in the search area. The list default shows the MTM Id, Message type, Time (when processing started), sender, receiver and the status for the message. By clicking a row you will get the log information for the message. This information is shown in the Message Log area

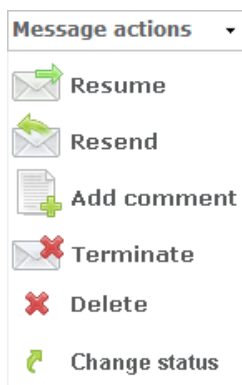
Message actions							Total number of records: 43	
MTM Id	Document Id	Message type	Time	Sender	Receiver	Status		
136		Prøvesvar	11.03.2010 14:15:02	Default	Default	Success	<input type="checkbox"/>	
135		Prøvesvar	11.03.2010 14:15:00	Default	Default	Success	<input type="checkbox"/>	
134		Prøvesvar	09.03.2010 15:58:02	Default	Default	Success	<input type="checkbox"/>	
132		Epikrise	09.03.2010 12:47:11	Legekontor A	Sykehus B	Success	<input type="checkbox"/>	
133		Epikrise	09.03.2010 12:47:11	tester	Sykehus B	Success	<input type="checkbox"/>	
131		Epikrise	09.03.2010 12:47:11	Legekontor A	Sykehus B	Success	<input type="checkbox"/>	
130		Epikrise	09.03.2010 12:47:11	Legekontor A	Sykehus B	Success	<input type="checkbox"/>	
129		Epikrise	09.03.2010 12:47:11	Legekontor A	Sykehus B	Success	<input type="checkbox"/>	
128		Epikrise	09.03.2010 12:32:37	Legekontor A	Sykehus B	OK	<input type="checkbox"/>	
127		Epikrise	09.03.2010 12:26:38	Legekontor A	Sykehus B	Running	<input type="checkbox"/>	

1 2 3 4 5



Column visibility is configurable from web config or from the “user setting form” available from the “The user menu” (see previous section) the user setting will supersede the config settings:

```
<add key="ColumnMTMIdVisibility" value="true" />
<add key="ColumnDocumentIdVisibility" value="true" />
<add key="ColumnMessageTypeVisibility" value="true" />
<add key="ColumnProcessedVisibility" value="true" />
<add key="ColumnSenderVisibility" value="true" />
<add key="ColumnReceiverVisibility" value="true" />
<add key="ColumnStatusVisibility" value="true" />
```



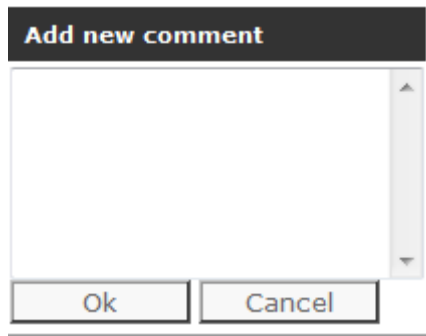
The checkbox at the end of each message is used to mark one or more messages, the check box in the header will toggle checks in all visible messages. The user needs the correct level of access rights to perform some of the actions. Setting up these rights is described in the MTM-Admin section.

Following actions is available for a message and is triggered by the "Message Action button" top left:


- Resume, triggers the resume action in BizTalk. Require the status "Suspended" to perform this action and Resume/Terminate access rights.
- Resend, will resend the message in BizTalk. Resend is only supported if file port is used in BizTalk.
- Add comment, adds a comment, see Add comment.
- Terminate, triggers the terminate action in BizTalk. Require the status "Suspended" and Resume/Terminate access rights
- Delete, marks the message as delete and it will not be shown in the message area. Require Administrator access rights.
- Change status, changes status on all selected messages.

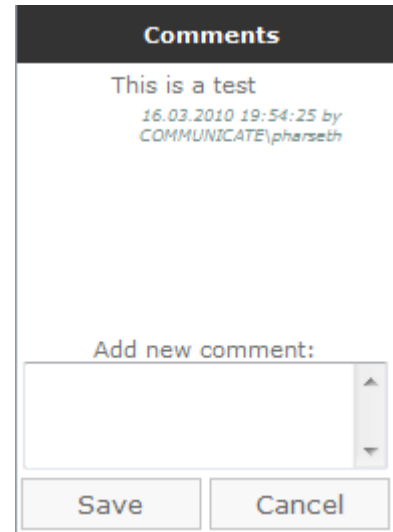
### 3.2.3.1 Add Comment



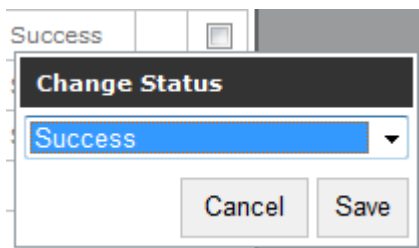


Add comment message action opens a small form to create or add a new comment to the selected message(s).

All messages having one or more comments are marked with an icon, . By clicking this icon all comments connected to this message are shown and new comments can be added.



### 3.2.3.2 Change message status



A message can have following statuses; Running, OK, Resumed, Terminated, Error, Success, Suspended (resumable), Suspended (not resumable). By clicking the status field on a message you can change the current status by choosing from the dropdown.

### 3.2.4 Message Log area

epikrise UTF-8

Details for message 131

Log Id	Time	Description	Status	File name	Receiver	Direction
341	09.03.2010 12:47:11	Received message	Running	dokument.xml - Copy.xml	Default	←
342	09.03.2010 12:47:11	Message identified	OK	...	Sykehus B	
347	09.03.2010 12:47:15	Processing send	Success	f30d5750-ba52-4f2b-b713-685fe9df36c4.xml	Default	→
350	09.03.2010 12:47:18	Processing send	Success	f30d5750-ba52-4f2b-b713-685fe9df36c4.xml	Default	→



This area shows a list with logging information for selected message. The list shows the log id, time, description, status, file name, receiver and direction. The direction is based on if the message is received or sent, and the arrows indicate as follows:

 Received

 Sent

In the details area you have the possibility to see both the inbound and the outbound message by clicking the filename link. The dropdown boxes at the top are used to show the message with correct format or style and encoding.

The style is customized XSLT style sheets that are added in the admin module and connected to a message type.

### 3.2.5 Footer area

Warning: your license is expiring in 15 days!

Site: Dev

#### 3.2.5.1 License message

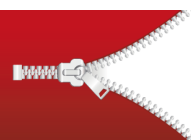
In the right footer area there will be shown a warning message when the license is expiring in less than 30 days.

#### 3.2.5.2 Site label

It is possible to add a site label that is displayed on all pages. The text on this label is defined in web.config. If this setting exists and the value is not empty, this label is displayed on all pages, including the login page.

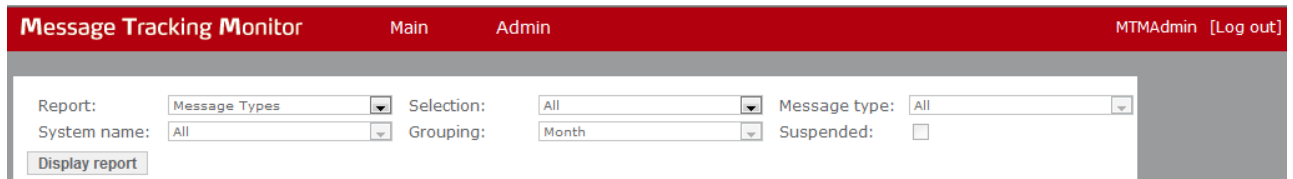
To add a site label, add a value to this key in the web.config file:

```
<!-- Site Label -->  
<add key="SiteLabel" value="Site label value"/>
```



## 4. Reporting / statistics

The purpose of the reporting module is to offer reports that will give the end user information about the message flow, to reveal problems in an early state and show the server load on the applications.



The screenshot shows the 'Message Tracking Monitor' interface. At the top, there are navigation links for 'Main' and 'Admin', and a user profile for 'MTMAdmin' with a '[Log out]' link. Below the navigation bar is a report configuration section with the following fields:

- Report: Message Types (dropdown)
- System name: All (dropdown)
- Selection: All (dropdown)
- Grouping: Month (dropdown)
- Message type: All (dropdown)
- Suspended:

A 'Display report' button is located at the bottom left of the configuration section.

### 4.1 Predefined reports

The reporting module comes with four predefined reports:

- Message types
- Throughput statistics
- Processing statistics
- Processing statistics details

#### 4.1.1 Message Types

This report gives an overall messages count and error count based on message type.

#### 4.1.2 Throughput Statistics

This report gives a overall throughput statistics information. Gives the key values on; number of interchanges, total received size, max received size, max received type, min received size, min received type, total sent size, max sent size, max sent type, min sent size and min sent type. The results are given in counted number or in size bytes (B) or kilo bytes (KB).

#### 4.1.3 Processing Statistics

This report gives a line chart overview on; shortest processing time, longest processing time, average processing time and number of interchanges.

#### 4.1.4 Processing Statistics Details

This report presents the details based on the processing statistics. This includes the MTM Message id for the shortest and longest processing times.





## 4.2 Filters

- Selection  
Time filter; last 24 hours, last 7 days, last month or custom. When selecting the custom selection two textboxes from/to gets visible for custom dates selection.
- Message Type  
Filters the report by all or selected message type. Message types are set up in the admin module and described in this section.
- System Name  
Filters the report by all or selected System name. The System name is a property set on the pipeline component MTMXMLReceive and AppRecMTMReceive.
- Grouping  
Groups the report based on hour, day, week, and month.
- Suspend  
Toggle to show the suspended messages or not.

A matrix defining filter available on reports:

Report / Filter	S	Messa	Syste	G	S
Message Types	X				
Throughput	X	X	X		
Processing	X	X	X	X	X
Processing	X	X	X	X	X

## 4.3 Custom reports using Reporting Services

The custom reporting module gives the users the possibility to design and use custom reports created and published to the reporting server.

### 4.3.1 Prerequisites

Reporting Services have to be installed and configured.

The MTM application pool in the IIS have to be run by a user that have rights to the folders where the MTM reports and the datasources are stored on the reportserver.





### 4.3.2 Settings

In the web config file the following settings needs to be set:

ReportServerURL	The URL to the Reporting server e.g. <a href="http://Servername/ReportServer/">http://Servername/ReportServer/</a>
ReportServerWebServiceURL	The URL to the Reporting server web service e.g. <a href="http://Servername/ReportServer/ReportService2005.asmx">http://Servername/ReportServer/ReportService2005.asmx</a>
ReportServerFolder	The Reporting server folder where the custom reports are located e.g. MTMReports

### 4.3.3 Creating and deploying the reports.

This topic will not be discussed in dept. The user needs to have the necessary skill to create and deploy a report using the Report builder or another tool like the Visual Studio. All reports deployed to the folder corresponding to the ReportServerFolder in 4.3.2 will be accessible through the MTM reports UI.

### 4.3.4 User interface

The MTM will only show a dropdown list showing all the available reports. When selecting a report a report viewer will show you the report exactly as it was created.





## 5. MTM Admin

MTM is delivered with an Admin module to maintain:

- Users
- User groups
- Message partners
- Message types
- User defined fields
- Message correlation (through user defined fields)
- Stored searches
- Message type access rights
- Message partner access rights
- Style sheets
- User actions
- Database jobs
- Shows when license is expiring

Admin | Users | Message types | Partners | Stylesheets | User actions | Database jobs | Defined fields | Miscellaneous

Welcome to the administration module.

You can administer various aspects of Message Tracking Monitor from this module.

Users	- Create and maintain users and groups.
Message types	- Create and maintain messages types. Setting up message lookups like receiver etc. is also done here.
Access rights	- Maintain access rights message types, different receivers etc.
Stylesheets	- Upload and maintain stylesheets for easier viewing of xml messages.
User actions	- Lets you view actions performed by the users in the web.
Database jobs	- Administer database jobs for cleaning and archiving message logs.
Defined fields	- Administer user defined lookup fields for messages. Used for increased search performance and message correlation.
Stored search	- Administer stored searches.

Your license is expiring in 175 days.



## 5.1 Users and user groups

To define a new user, click Users > Create User

Fill out the desired data and assign appropriate group membership. A user must have be a member of at least one group.

A new user will have the same password as his username until his first logon, where he is asked to change it.

The screenshot shows the 'Create user' form within the 'Users' tab. The form includes the following fields and options:

- User name:\***: Text input field.
- First name:**: Text input field.
- Last name:**: Text input field.
- Email address:**: Text input field.
- Valid until:**: Text input field.
- \* = required**: Note indicating required fields.
- Active**:  checkbox.
- Administrator**:  checkbox.
- Not member of**: List box containing Administrators, COMMUNICATE\Solutions, COMMUNICATE\Halden, and TestGroup1.
- Member of**: Text input field containing Everyone.
- Save**: Button at the bottom right.

To administer groups, click Users > Groups

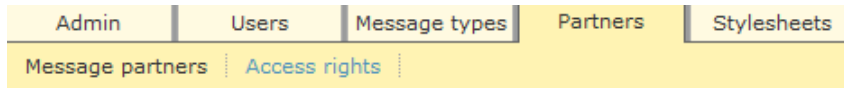
The screenshot shows the 'Groups' management table. The table has three columns: 'Group name' and 'Admin'. Each row includes 'Edit' and 'Delete' links. The 'Admin' column contains checkboxes.

	Group name	Admin
<a href="#">Edit</a> <a href="#">Delete</a>	Everyone	<input type="checkbox"/>
<a href="#">Edit</a> <a href="#">Delete</a>	Administrators	<input checked="" type="checkbox"/>
<a href="#">Edit</a> <a href="#">Delete</a>	COMMUNICATE\Solutions	<input type="checkbox"/>
<a href="#">Edit</a> <a href="#">Delete</a>	COMMUNICATE\Halden	<input type="checkbox"/>
<a href="#">Edit</a> <a href="#">Delete</a>	TestGroup1	<input type="checkbox"/>
<a href="#">Edit</a> <a href="#">Delete</a>	TestGroup2	<input type="checkbox"/>
<a href="#">Insert</a> <a href="#">Cancel</a>	<input type="text"/>	<input type="checkbox"/>



## 5.2 Message Partners

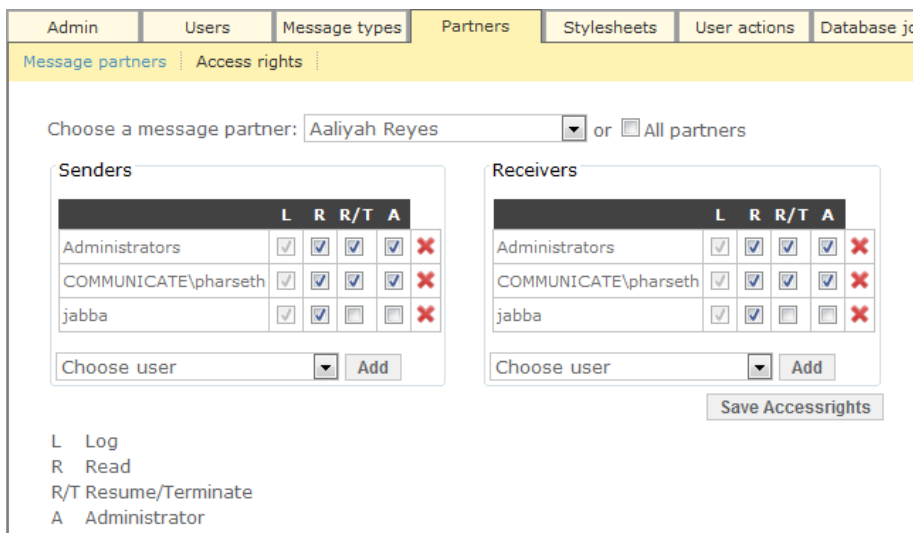
All senders and receivers are defined at Partners > Message partners. Message Partners are defined automatically when sent through MTM pipeline components. By default, both the message partner id and message partner name fields are equal. To change to message partner display name, click Edit, change the name, and click Save.



	Message partner id	Message partner name
Edit Delete		
Edit Delete	-1	Default
Edit Delete	Aaliyah Cruz	Aaliyah Cruz Hallo
Edit Delete	Aaliyah Reyes	Aaliyah Reyes
Edit Delete	Aaron Robinson	Aaron Robinson FFFF
Edit Delete	Abigail Stewart	Abigail Stewart
Edit Delete	Adam Green	Adam Green
Edit Delete	Addison Morris	Addison Morris
Edit Delete	Adrian Pérez	Adrian Pérez
Edit Delete	Aidan Scott	Aidan Scott
Insert Cancel	<input type="text"/>	<input type="text"/>

1 2 3 4 5 6 7 8 9 10 ...

To assign rights to certain message partners, you click Partners > Access rights.



To assign the same rights to all partners check the "All partner" checkbox. Add the users to assign rights, and save.



Admin | Users | **Message types** | Partners | Stylesheets | User act

Message partners | Access rights

Choose a message partner:  or  All partners

**Users**

	L	R	R/T	A
TestGroup1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TestGroup2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Administrators

L Log  
R Read  
R/T Resume/Terminate  
A Administrator

### 5.3 Message Types

Message types are set up under the Message types tab. Setting up a message type makes MTM try to automatically detect a given message type during processing in the receive pipeline.

Message types > All message types shows all the message types registered

Admin | Users | **Message types** | Partners | Stylesheets | User actions | Database jobs | Defined fields | Miscellaneous

All message types | Create message type | Access rights

Id	Message type name	BizTalk schema	Document Id	Receiver	Sender	
1	Default					<input checked="" type="checkbox"/>
2	Overseas order details	,		Store		<input checked="" type="checkbox"/>
3	Overseas order	BizTest.InFile, BizTest, ...	/ *[local-name()='FileRoot...	Mottaker	Sender	<input checked="" type="checkbox"/>
4	Receipt	BizTest.Correlation, BizT...				<input checked="" type="checkbox"/>
5	Registration	,		Customer	Store	<input checked="" type="checkbox"/>
6	Delivery note	,		Customer	Store	<input checked="" type="checkbox"/>
7	Salary	,		Wage earner	Employer_test4	<input checked="" type="checkbox"/>
8	Invoice	Demo.Invoices.Invoice, De...	/ *[local-name()='invoice'...	/ *[local-name()='invoice'...	Seller	<input checked="" type="checkbox"/>
9	Sales order	BizSimple.SimpleRescive, ...	/ *[local-name()='Root' an...	/ *[local-name()='Root' an...	Store	<input checked="" type="checkbox"/>
10	Sales order confirmation	,		customer	Store	<input checked="" type="checkbox"/>
11	Purchase Order	,		Seller	Buyer	<input checked="" type="checkbox"/>
12	Purchase requisition	,		Buyer	Staff	<input checked="" type="checkbox"/>
13	Registration vendor	,		Buyer	Staff	<input checked="" type="checkbox"/>

Clicking on a row lets you edit that message type. Clicking the red X will delete that message type. If a message type has any message entries attached to it, it cannot be deleted.



Message types > Create message type lets you create a new message type

Admin Users **Message types** Partners Stylesheets User actions Database jobs Defined fields Miscellaneous

All message types Create message type Access rights

Name:

BizTalk Schema:

DocumentId:  Receiver:

DocumentId namespace:  Receiver namespace:

Document message type:  Sender:

Sender namespace:

A message type is differentiated by its BizTalk schema. This can be looked up through the looking glass next to the BizTalk schema textbox.

To further differentiate between messages and making it easier to search through them, one can set up the document id, receiver and sender to do an xpath lookup in xml files it receives of the message type. Clicking on the hourglass next to those fields lets you pick elements from the currently selected schema.

To assign rights to certain messages type, you click Message types > Access rights

Admin Users **Message types** Partners

All message types Create message type Access rights

Choose message type:

	L	R	R/T	A
MTMAdmin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Add user

- L Log
- R Read
- R/T Resume/Terminate
- A Administrator



## 5.4 User defined search fields

User defined search fields are used in situations where you want message correlation (f.ex message receipts) or if you want enhanced search performance in certain scenarios.

A user defined field is set up by specifying an xpath expression. MTM will then do a lookup in the message contents when it processes this message type and stores the resolved value in a dedicated value.

You can then search for this value specifically through the search interface without using the free text search.

User defined search fields are set up by clicking Defined fields.

Admin	Users	Message types	Partners	Stylesheets	User actions	Database jobs	Defined fields	Miscellaneous
-------	-------	---------------	----------	-------------	--------------	---------------	----------------	---------------

Message Type

Field Name	Search Param	Search Param Namespace
<a href="#">Insert</a>	<input type="text"/>	<input type="text"/>
	<input type="button" value="Add..."/>	

	Id	Field Name	Search Parameter	Search Parameter Namespace
<a href="#">Edit</a> <a href="#">Delete</a>	1	AppRec	//*[@local-name()='FileRoot' and namespace-uri()='http://BizTest.InFile']//*[@local-name()='Bjarne' and namespace-uri()='']	

The “Rebuild index” button will rebuild indexes for the selected message type to make the user defined search work on the historical data.

## 5.5 Message Correlation

Message correlation is used together with the pipeline component AppRecMTMReceive.

The functionality of setting up the correlation is identical with the user defined search fields, and the search parameter must be an xpath expression pointing to the correlation value. When the correlation is set, the application receiver will be logged with the main message.





## 5.6 Style sheets

Xml files can often be complex and hard to search through. Its therefore possible to upload and assign xslt files to message types. This allows you to show a formatted version of message types according to your own specification.

Managing style sheets is done through the Style sheets tab.

- *Upload style sheets*

Lets you upload a style sheet to the MTM database.

- *Manage style sheets*

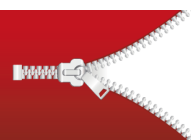
Lets you rename and remove style sheets.

- *Attach style sheets*

Lets you choose what style sheets are to be visible for a given message type. Choose a message type from the dropdown, select the style sheets you want associated with that message type and click save.

- *Default style sheets*

Lets you assign a style sheet as being default for a message type. This will make the style sheet appear as the default choice for message format when viewing message logs.



## 5.7 User actions

Search User Actions

From Date:

To Date:

Username:

Action Type:

Total number of records: 6

User name	Action type	Description	Time
MTMAdmin	Login	Logged in	17.03.2010 14:27:04
MTMAdmin	Login	Logged in	17.03.2010 14:13:11
MTMAdmin	UserActionSearch	Searched UserActions. SearchCriteria: MTMAdmin, 17.03.20...	17.03.2010 14:01:36
MTMAdmin	Updateuser	Updated user mtmtest	17.03.2010 14:01:26
MTMAdmin	AddComment	Added comment 'new comment' for messageid 129	17.03.2010 14:01:09
MTMAdmin	Search	Searched from 08.03.2010 00:00:00 to 17.03.2010 00:00:00...	17.03.2010 14:00:49

The administration of user actions has two main parts, the search area and the list of results. The search area needs minimum from and to values and a username or an action type. It also supports combinations of usernames and action types. The result will be listed in a grid showing the user name, the action type, the description of the action and time for when the action was performed. The description column hides longer text by showing ... clicking inside this cell will show the hidden text. The setting in the web config file will turn on/off this feature.

```
<add key="LogUserActions" value="true" />
```

## 5.8 Database jobs

There is possible to setup two database jobs for the MTM database. The jobs are created to easy cleanup or move messages or message content from the main MTM database. The jobs are created in the SQL Server Agent and calls stored procedure to clean or move data. In most cases only choose one of the strategies to handle your data. You either chose to move your data using the archive strategy or delete your data. A combination is only necessary if you want to archive the data without the message content. Each job can be filtered by the message type. This is setup under the "Filter by messagetype" tab. Note that the main database job has to be setup and enabled to use the filtering by message type.





## 5.8.1 Main database job

The main jobs will work on all message types not specified under the “Filter by Messagetype”.

### 5.8.1.1 Clean MTM

This job deletes messages and/or the file content of the tracked messages. Please note that when this job runs the messages are deleted and cannot be recreated if there is no backup of this data elsewhere.

Administer Database Jobs

Job:	Clean MTM
Frequency type:	Daily
Recurs every:	1 day(s)
Occurs at:	00:00 ( HH : MM )
Start date:	01.04.2010
How many days to keep log data:	100
How many days to keep log filecontent:	20
Enabled:	<input type="checkbox"/>

**Update**

The properties for this job are as described in table below:

Field	Description	Mandatory
Job	Name of the job	✓
Frequency type	Always based on Daily	✓
Recurs every	How often the job is run based on frequency type. 1 is every day, 7 is once a week etc.	✓
Occurs at	Time of day, when the job starts. Always run jobs when the server has the lowest workload.	✓
Start date	The date the job starts for the first time.	✓
How many days to keep	The number of days to keep data all	✓



logdata	messages older will be deleted.	
How many days to keep log file content	The number of days to keep files content, all file content older will be deleted. This number have to be equal or less to how many days to keep log data property.	✓
Enabled	If the job is enabled to run or not.	✓

### 5.8.1.2 Archive MTM

This moves database content from the main MTM dataset to an archive database.

Administer Database Jobs

Job: Archive MTM ▾

Frequency type: Daily

Rekurs every: 7 day(s)

Occurs at: 00 : 00 ( HH : MM )

Start date: 01.01.2010

How many days to keep log data: 64

Enabled:

Update

The properties for this job are the same as for the clean job, with exception of the how many days to keep log file content property. The property how many days to keep log data will control how many days of data will be kept in the Main database and what exceeds this will be moved to the Archive database.

## 5.9 Filter by messagetype

This makes it possible to refine the database jobs, by setting up filter by message type. This will override the settings set up in the main database job for the selected message types. The filter settings will be applied when the main database job runs. The List will show all current filters.



Administer Database Jobby message type

Job:

Message type:

How many days to keep log data:

How many days to keep log filecontent:

	Job	Message type	Days to keep data	Days to keep content
Delete	Archive MTM	Delivery note	200	
Delete	Archive MTM	Invoice	200	
Delete	Clean MTM	Overseas order details	185	185
Delete	Archive MTM	Purchase Order	160	
Delete	Archive MTM	Receipt	200	
Delete	Archive MTM	Salary	200	

The properties for this job are as described in table below:

Field	Description	Mandatory
Job	The job type	✓
Message type	The message type to filter on	✓
How many days to keep logdata	The number of days to keep data all messages older will be deleted.	✓
How many days to keep log file content	The number of days to keep files content, all file content older will be deleted. This number has to be equal or less to how many days to keep log data property. Only available at the Clean MTM job.	✓

## 5.10 Browse the archive

It is possible to setup a dedicated MTM web to use the archive database. This is a bit tricky and do require some manual steps.

1. Copy the content from folder C:\Program Files (x86)\Communicate BizTalk Tools\Message Tracking Monitor\ web
2. Create a new folder ArchiveWeb under C:\Program Files (x86)\Communicate BizTalk Tools\Message Tracking Monitor and copy the web content here.



3. Open IIS and create a new website MTMArchive. Select the MTMPool, set the physical path to the content of the ArchiveWeb and set the port to 19975.
4. Convert MTMWeb and MTMServices to Applications.
5. Open the web.config from C:\Program Files (x86)\Communicate BizTalk Tools\Message Tracking Monitor\ArchiveWeb\MTMWeb and change all the Web service references to point to <http://localhost:19975>.... And set the key <add key="LogUserActions" value="false" /> to false if it is set to true.
6. Open the web.config from C:\Program Files (x86)\Communicate BizTalk Tools\Message Tracking Monitor\ArchiveWeb\MTMServices and change the "MTMConnection" to point to the Archive Database and use a valid user.
7. Browse the archive <http://localhost:19975/MTMWeb/Default.aspx>

## 5.11 Prerequisites and setup for database jobs

The archive database can be seated on the same or different database server. If it is seated on different database some steps have to be done to the both servers:

*The following applies to both jobs.*

1. Integration Services must be installed on the server where the MTM database is installed.
2. If the web server does not have SQL Server 2008 installed. Install Microsoft SQL Server System CLR Types and Microsoft SQL Server 2008 Management Objects from:  
<http://www.microsoft.com/downloads/details.aspx?FamilyId=C6C3E9EF-BA29-4A43-8D69-A2BED18FE73C&displaylang=en>
3. Both jobs depend on extended rights for the MTM database login. The MTM login has to be added as a user to the msdb system database and given the SQLAgentUserRole.

*Archive database job:*

1. Create Archive database from clicking [ Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Database > Create archive database ]. Use same procedure as [Creating database](#), the database name created in this process is the base for [DATABASENAME] in the rest of this instruction and the user name and password is the base for the LOGIN and the PASSWORD in 4.



2. Remember to open for SQL traffic in the firewall on Archive server. Default port is 1433
3. Add the archive server as a liked server on the main Server  
exec sp\_addlinkedserver @server = 'SERVERNAME'
4. Add a server login.  
exec sp\_addlinkedsrvlogin @rmtsrvname = 'SERVERNAME', @useself = 'false', @rmtuser = 'LOGIN', @rmtpassword = 'PASSWORD'
5. Test if the connection is OK.  
select top 1 \* from [SERVERNAME].[DATABASENAME].dbo.[Message]
6. Open and edit Edit the Move database script ([ Start > All Programs > Communicate BizTalk Tools > Message Tracking Monitor > Database > Move database script]). Use the replace function in a text editor to change the [SERVERNAME].[DATABASENAME] to correct names. Then run the Script on the MTM main database to install it. This step has to be done after the server is liked to run correctly.

## 5.12 Miscellaneous

### 5.12.1 Stored Search

Stored search name	
Test	X
Alle Prøvesvar	X
Alle Epikriser	X
Prøvesvar spesial	X

All stored search is listed here, with the possibility to delete.





### 5.12.2 Message status

	Description	Show in user interface
<a href="#">Edit</a>	Running	<input checked="" type="checkbox"/>
<a href="#">Edit</a>	OK	<input checked="" type="checkbox"/>
<a href="#">Edit</a>	Resumed	<input checked="" type="checkbox"/>
<a href="#">Edit</a>	Terminated	<input checked="" type="checkbox"/>
<a href="#">Edit</a>	Error	<input checked="" type="checkbox"/>
<a href="#">Edit</a>	Success	<input checked="" type="checkbox"/>
<a href="#">Edit</a>	Suspended (resumable)	<input checked="" type="checkbox"/>
<a href="#">Edit</a>	Suspended (not resumable)	<input checked="" type="checkbox"/>
<a href="#">Edit</a>	Deleted	<input type="checkbox"/>
<a href="#">Edit Delete</a>	New Status	<input checked="" type="checkbox"/>
<a href="#">Insert Cancel</a>	<input type="text"/>	<input type="checkbox"/>

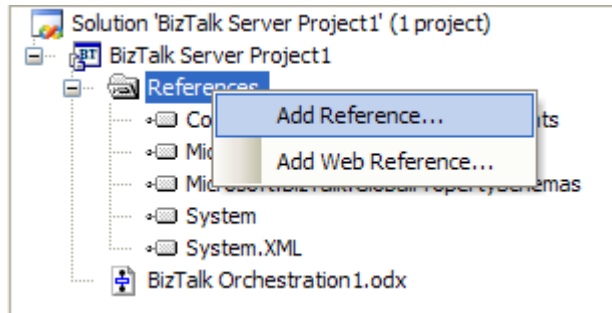
Use the link buttons to edit, delete or insert a new message, status. The application pre created message status only support editing, not deletion. It is not possible to delete a message status that is in use on any message and an error message will be thrown if the user tries to do this.

Field	Description	Mandatory
Description	The text shown in the user interface	✓
Show in user interface	Set the visibility for this status in the dropdown lists in the application. This flag will not have any impact of the showing of the messages in the application	✓

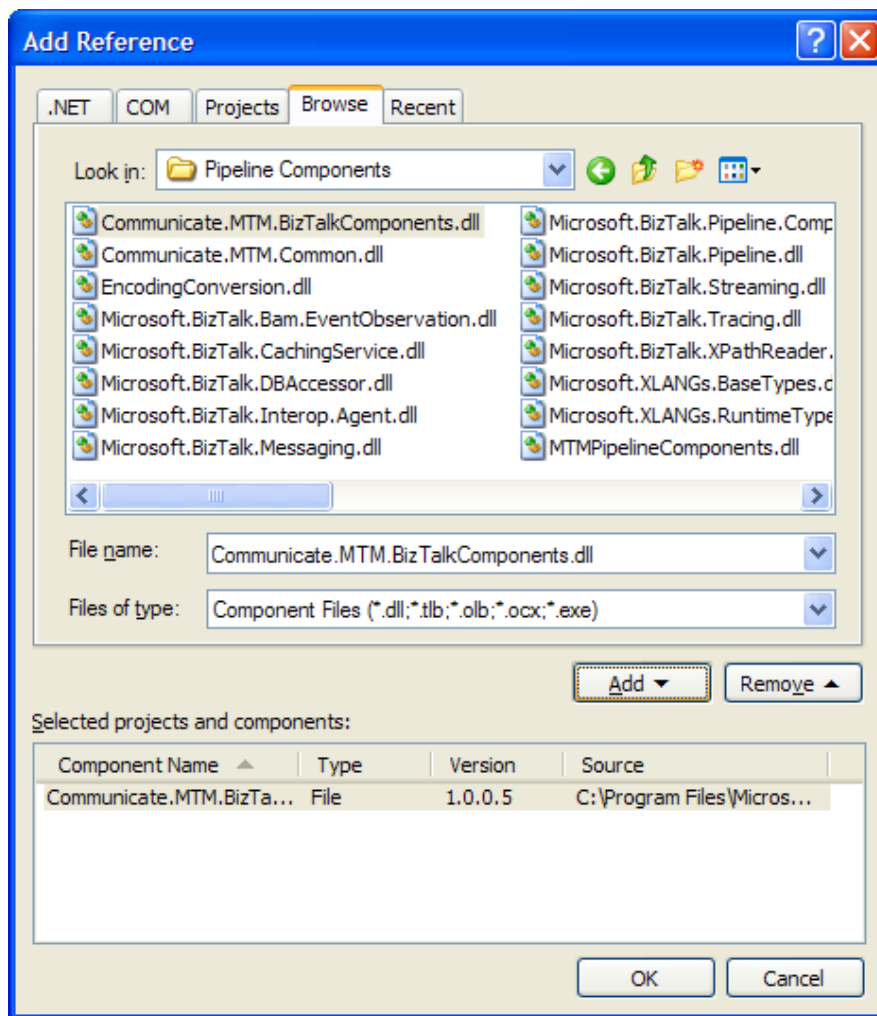


## 6. Log to MTM from a BizTalk Orchestration

This section describes the possibility to set up direct logging to MTM from a BizTalk Orchestration from a Visual Studio environment.

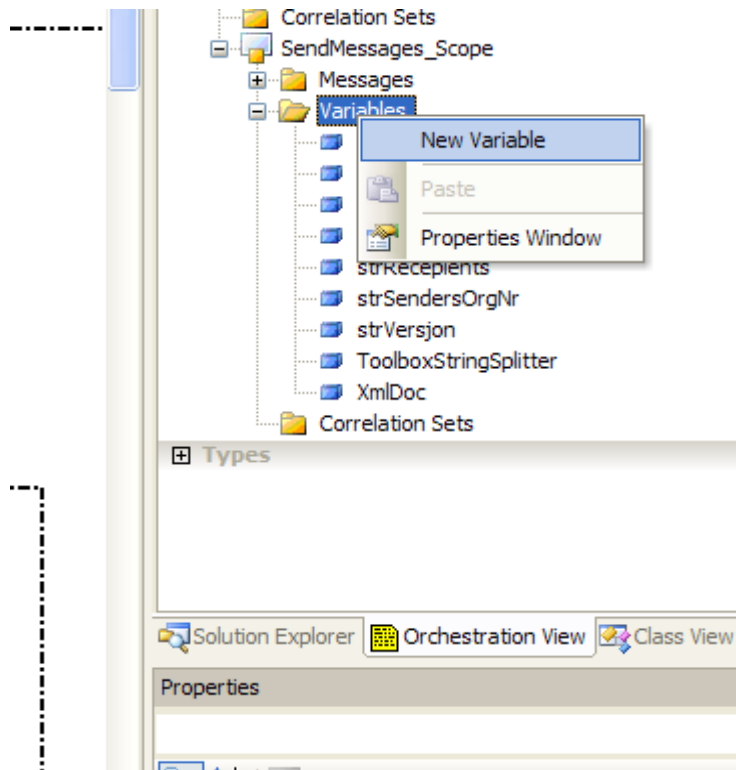


”Right click” on References and choose ”Add Reference”



Choose the Browse tab and browse to “Communicate.MTM.BiztalkComponents” from C: \Program Files\Microsoft BizTalk Server 2006\Pipeline Components.

Click Add og OK.

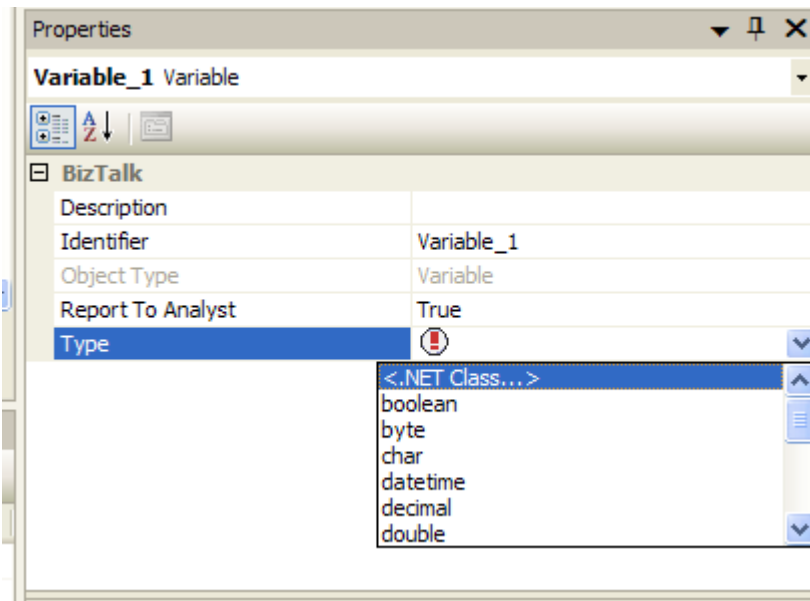


Choose the Orchestration View and what scope you would like to log

Right click and choose "New Variable"



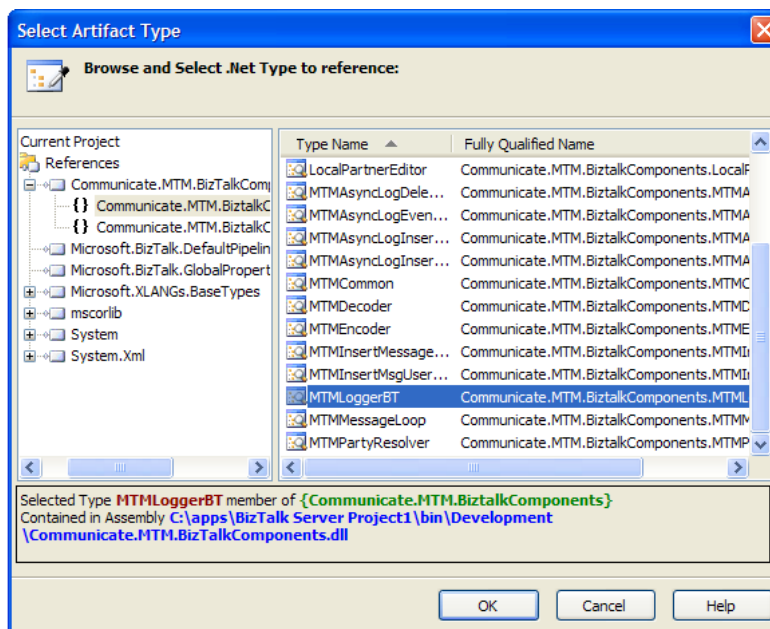




Give the variable an identifier name.

In the Properties-window, choose Type and <.NET Class ...>

The following window will appear. Choose Communicate.MTM.BiztalkComponents -> MTMLoggerBT. Click OK.



This class has 4 overloads as underlined below



▲ 1 of 4 ▼	System.Void MTMLoggerBT.InsertMessage ( <b>System.String interchangeID</b> , System.String logText, System.String receiver, System.Int32 status, System.String filename, Microsoft.XLANGs.BaseTypes.XLANGMessage btMessage)
<b>interchangeID:</b> Refers to the interchange ID of the original message	
▲ 2 of 4 ▼	System.Void MTMLoggerBT.InsertMessage ( <b>System.String interchangeId</b> , System.String logText, System.String receiver, System.Int32 status, System.String filename, Microsoft.XLANGs.BaseTypes.XLANGMessage btMessage, System.Boolean waitForReceipt)
<b>interchangeId:</b> Refers to the interchange ID of the original message	
▲ 3 of 4 ▼	System.Void MTMLoggerBT.InsertMessage ( <b>System.String interchangeID</b> , System.String logText, System.String receiver, System.Int32 status, System.String filename, System.String btMessage) Insert the message to the MTM Database
▲ 4 of 4 ▼	System.Void MTMLoggerBT.InsertMessage ( <b>System.String interchangeId</b> , System.String logText, System.String receiver, System.Int32 status, System.String filename, System.String btMessage, System.Boolean waitForReceipt) Insert the message to the MTM Database

Overload 1 and 2 accepts the file contents as a stream, while overload 3 and 4 accepts the file contents as a string. Example of use:

```
Variable_1.InsertMessage(XmlDocMsg(BTS.InterchangeID),"Converted to filetype ", "-1", 2, "filnavn", XmlDocMsg);
```

InterchangeId	" XmlDocMsg"	Message defined in the same scope as the call to InsertMessage
logText	"Converted to filetype"	Logdescription shown in MTM
receiver	"-1"	receiverID - set to "-1" for normal use.
status	"Started = 1" "OK = 2" "Resumed = 3" "Terminated = 4" "Error = 5" "Success = 6" "Suspended resumable = 7" "Suspended not resumable = 8"	What status the message will receive in MTM
filename	"filnavn"	The filename the message will have in MTM
btMessage	XmlDocMsg	Contents of the message





## 7. Frequently asked questions

Q: I am getting errors in the errorlog from the MTM windows service stating that "Error occurred while polling suspended messages. Possible cause: <error message>".

A: The MTM windows service uses WMI to poll BizTalk for suspended messages. A common cause of this error is not having enough rights to perform the operation. The user running the service needs to be a member of both the BizTalk administrator group as well the Enterprise SSO Administrator. Any firewalls present will also need to let through WMI traffic.

Having a lot of messages suspended in BizTalk might also cause problems. WMI has an inherent quota of how much information can be sent and received through it. This varies depending on the windows server version its being run on, but in general this will require several thousand messages suspended to be a problem. The error given in this instance will be a quota violation error. The solution is to reduce the number of messages suspended in BizTalk.

