



Do More with MESSAGEmanager

# MESSAGEmanager

## Fax SMS and Information Delivery Web Service

*MESSAGEmanager Web Service is a W3C-compliant Web Service interface that enables third party client applications to send, receive, update and query outbound or inbound messages via MESSAGEmanager Fax SMS and Information Delivery Services.*

This web service is designed for client applications that need to communicate with MESSAGEmanager FSID services but where Microsoft's .NET framework is not available, or where firewalls or domain trust issues prevent .NET operation across security boundaries. It is also useful for non-Microsoft clients, such as a Java application in a UNIX environment sending fax or SMS messages, or processing received messages. The web service has built in trace logging for troubleshooting.

The web service is an ASP.NET 2.0 web service with Web Services Enhancements (WSE 3.0). All file transfers use the MTOM mechanism.

### How it works

MESSAGEmanager Web Service exposes the following web methods to submit, query and update messages via a web server.

**SubmitMessage** - submit a new message with attachment to MESSAGEmanager for transmission.

The web service returns an integer value as follows:

- 0 - Success
- 2 - Cannot connect to the MESSAGEmanager FSID server
- 4 - Invalid argument (such as submitting a message without any destination number)
- 6 - Security exception, web service can not access the MESSAGEmanager FSID server
- 9 - All MESSAGEmanager servers have failed

**QueryOutboundMessages** - query and return all outbound messages matching selection criteria specified in the query argument.

The Web Service provides a list of message to the application. You can specify a specific server or all servers and which database to query is the pending queue, the complete queue or the archive database.

The web service returns an integer value as follows:

- 0 - Success
- 1 - Web service has an invalid configuration
- 2 - Cannot connect to the MESSAGEmanager FSID server
- 4 - Invalid query string
- 5 - Invalid database type
- 6 - Security exception, web service can not access the MESSAGEmanager FSID server.

**UpdateOutboundMessage** - update an outbound message in the pending queue. This method is used to cancel or postpone a message or increase the priority.

The web service returns an integer value as follows:

- 0 - Success
- 1 - Web service has an invalid configuration
- 2 - Cannot connect to the MESSAGEmanager FSID server
- 4 - Invalid query string
- 5 - Invalid database type
- 6 - Security exception, web service can not access the MESSAGEmanager FSID server.
- 7 - Message not found (usually because the message has just been sent and moved to the outbound complete queue)

**GetFileFromOutbound** - download a sent message file. Each successful outbound message contains a file representing the message as sent. This web method allows you to download that file using MTOM.

Member variable status of the GetFileResponse object assigned by the web service is a status value which could be one of the following:

- 0 - Success
- 2 - Cannot connect to the MESSAGEmanager FSID server
- 6 - Security exception, web service cannot access the MESSAGEmanager FSID server
- 7 - Message not found (the message has just has been purged)

**QueryInboundMessages** - query and return all inbound messages matching selection criteria specified in the query argument.

This method obtains a list of inbound messages from one or more servers according to selection criteria specified by a query string. You can specify a specific server or all servers and which database to query ie the inbound queue or archive database.

The web service returns an integer value as follows:

- 0 - Success
- 1 - Web service has an invalid configuration
- 2 - Cannot connect to the MESSAGEmanager FSID server
- 4 - Invalid query string
- 5 - Invalid database type
- 6 - Security exception, web service can not access the MESSAGEmanager FSID server

**GetFileFromInbound** - Web Method to download a received message file. Each inbound message contains a received file. This web method allows you to download that file using MTOM.

Member variable status of the GetFileResponse object assigned by the web service is a status value which could be one of the following:

- 0 - Success
- 2 - Cannot connect to the MESSAGEmanager FSID server
- 6 - Security exception, web service can not access the MESSAGEmanager FSID server
- 7 - message not found (the message has just has been purged)

The following are the actual C# definitions of all classes exposed:

**InboundMessageW** - this class defines an Inbound Message object with all properties and methods.

**Available Properties - all properties are read only.**

**uint MSN** - MESSAGEmanager message sequence number.

**string CiuFile** - The message file, if any.

**DateTime CompletionTime** - The UTC time at which message reception was completed, whether successfully or otherwise.

**string Protocol** - The message type - F for fax, S for SMS.

**uint Duration** - The call duration, in seconds.

**uint Pages** - The total number of pages in the message file (fax only).

**uint Status** - The message status. Zero means a successfully received message. Any other value indicates a problem, usually a premature call termination. Status codes can be translated to text using a table of defined error codes in the FSID documentation.

**string RecvCSID** - This is the sender's CSID.

**string ServerName** - The name of the MESSAGEmanager FSID Server which received the message.

**uint ChannelNumber** - The number of the channel on which the message was received.

**string NotifierID** - Identifies the system which should handle routing. Specified by the MESSAGEmanager FSID Server when receiving messages.

**uint Speed**-Speed at which this message was received (fax only).

**string Digits** - A string containing the message's routing digits as provided by the PBX or IP gateway.

**string CallerID** - The sender's phone number, if available.

**OutboundMessageW** - this class defines an Outbound Message object with all properties and methods.

**Available read - only properties:**

**uint MSN** - MESSAGEmanager message sequence number.

**string CiuFile** - The message file, if any.

**DateTime CompletionTime** - The UTC time at which message transmission was completed, or abandoned.

**string Protocol** - The message type - F for fax, S for SMS and E for email destinations.

**uint Duration** - The call duration, in seconds.

**uint Pages** - The total number of pages in the message file (fax only).

**uint Status** - The message status. Zero means a successfully transmitted message. Any other value indicates a problem. Status codes can be translated to text using a table of defined error codes in FSID documentation.

**string RecvCSID** - This is the receiver's CSID.

**string ServerName** - The name of the MESSAGEmanager FSID Server which sent the message.

**uint ChannelNumber** - The number of the channel on which the message was finally sent.

**string NotifierID** - Identifies the system which should handle notification.

**string UserID** - This identifies the email address to which notifications should be sent.

**string UserType** - This identifies the email system by which notifications should be sent. This is a two-character Gateway user type. Possible values are:

- Exchange-EX
- Domino-LN
- SMTP-SM
- XML - XM

**uint Speed** -Transmission speed at which this message was finally sent.

**string MessageID** - Identifies the originating application's message identification, if any.

**string SendCSID** - Identifies the CSID string to be included in the transmitted message as if the message originated from a fax machine with this CSID.

**string Account** - Identifies the account/billing code.

**List<string> DestNumbers** - The destination fax or SMS number or email address. MESSAGEmanager supports only one destination per message, however this is a multi-valued property to support an alternative destination (of the same protocol).

**DateTime SubmissionTime** - The UTC date and time as specified by the originating application.

**DateTime AcceptanceTime** - The UTC date and time at which the sending server accepted the message.

**DateTime Try1Time** - The UTC date and time at which the sending server first tried dialling the primary destination.

**uint NTries** - The number of times the sending server has dialled the primary destination number.

**string PageHeader** - A short string which will be displayed in the per-page fax header, if the sending server is configured for a page header.

**string CoverFile** - Identifies the fax cover page template file. The template is assumed to be already stored on the server.

**List<string> SendTo** - A list of strings to identify the message recipient on the cover page, if a fax. Usually this contains two strings: the recipient's personal name and company name.

**List<string> SentBy** - A list of strings to identify the message sender on the cover page, if a fax. Usually this contains two strings: the sender's personal name and department or company name.

**string Subject** - Message subject line. For a fax this is used on the cover page. For an SMS message, this can be the whole message if no body text is provided. For an email this is the email subject line. The subject line is also often used for message tracking.

**string VoiceNumber** - Sender's phone number, just for use on the fax cover page.

**double CallCost** - The cost of the call, as estimated by the sending server, in the currency of that server.

**string ConnNumber** - The number as dialled by the sending server on the dial attempt which sent the message.

**uint PagesSoFar** - The number of pages which had been successfully sent at the time the message data was retrieved from the server.

**string Notified** - True if message notification by the application was required and is now complete. False if message notification was not required and application has processed the record.

**string NotifyFlag** - Specifies the message notification mode.

Possible values:

"A" for always,

"F" for failures only

"N" (or empty) for no notification.