MQPut

MQPut is a command program to put a message on a queue. Also JMS Messages can be send!
It makes use of IBM® MQ classes for Java™. They are converted to DLL, using the IKVM project.
All required DLL's are embedded within the executable, so MQPut is a single executable file.

The program is used with the commandline arguments: "**MQPut SettingsFile MessageFile**".

The message text can also be included in the *SettingsFile*, making the *MessageFile* argument optional.
The *MessageFile* argument provides the filename (and path) of the message that will be put on a queue.

Examples of a *SettingsFile* are:

```
<MQ>
  <HostName>188.43.61.12</HostName>
  <Channel>C1.SYS.01.CL</Channel>
  <Port>1414</Port>
  <Manager>ABCL02</Manager>
  <QueueName>C1.SYS.CORE_IN_Q</QueueName>
</MQ>
```

Setting 1 Simple MQ String message

```
<JMS>
  <HostName>ab99999y9.is.abccorp.net</HostName>
  <Channel>I9.TESTMNGT.99.AB</Channel>
  <Port>1414</Port>
  <Manager>ABCD04</Manager>
  <QueueName>C1.ESB.DOCUONL.SNOT.01.QA</QueueName>
  <MessageProperties>
    <PropValue>
      <key>SOAPJMS_soapaction</key>
      <value>http://www.bus.com/../Send..ScheduleChange-v1/Snot</value>
      <type>STRING</type>
    </PropValue>
    <PropValue>
      <key>SOAPJMS_contenttype</key> www.bus.com
      <value>text/xml; charset=utf-8</value>
      <type>STRING</type>
    </PropValue>
    <PropValue>
      <key>SoapAction</key>
      <value> http://www.bus.com/../Send..ScheduleChange-v1/Snot</value>
      <type>STRING</type>
    </PropValue>
    <PropValue>
      <key>Content_Type</key>
      <value>text/xml; charset=utf-8</value>
      <type>STRING</type>
    </PropValue>
  </MessageProperties>
</JMS>
```

Setting 2 Settingsfile for JMS Message

```xml
<JMS>
  <MessageProperties>
    <PropValue>
      <key>JMSTYPE</key>
      <value>jms_bytes</value>
      <type>STRING</type>
    </PropValue>
    <PropValue>
      <key>SOAPJMS_soapaction</key>
      <value>http://www.bus.com/../Send..ScheduleChange-v1/Snot</value>
      <type>STRING</type>
    </PropValue>
    <PropValue>
      <key>SOAPJMS_contenttype</key> www.bus.com
      <value>text/xml; charset=utf-8</value>
      <type>STRING</type>
    </PropValue>
    <PropValue>
      <key>SoapAction</key>
      <value> http://www.bus.com/../Send..ScheduleChange-v1/Snot</value>
      <type>STRING</type>
    </PropValue>
    <PropValue>
      <key>Content_Type</key>
      <value>text/xml; charset=utf-8</value>
      <type>STRING</type>
    </PropValue>
  </MessageProperties>
  <ConnectionProperties />
  <PassWord />
  <UserID />
  <HostName>ab99999y9.is.abccorp.net</HostName>
  <Channel>I9.TESTMNGT.99.AB</Channel>
  <Port>1414</Port>
  <Manager>ABCD04</Manager>
  <QueueName>C1.ESB.DOCUONL.SNOT.01.QA</QueueName>
  <Message>&lt;?xml version="1.0" encoding="UTF-8"?&gt;
&lt;S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"&gt;
    &lt;S:Header&gt;
..
    &lt;/S:Header&gt;
    &lt;S:Body&gt;
        &lt;ODS xmlns="http://www.bus.com/services/SnotEvent/xsd"&gt;
            &lt;PublicationGeneralInformation&gt;
                &lt;MessageType&gt;DEF&lt;/MessageType&gt;
                &lt;ServiceName&gt;XYZ&lt;/ServiceName&gt;
                &lt;TimeMode&gt;UTC&lt;/TimeMode&gt;
                &lt;ProviderInformation&gt;
                    &lt;SystemName&gt;SNOT&lt;/SystemName&gt;
                    &lt;SystemAddress&gt;ABCD&lt;/SystemAddress&gt;
                    &lt;SystemAddressType&gt;TELEX&lt;/SystemAddressType&gt;
                &lt;/ProviderInformation&gt;
                &lt;CreatorReference&gt;ABC&lt;/CreatorReference&gt;
            &lt;/PublicationGeneralInformation&gt;
                &lt;/FlightSIList&gt;
            &lt;/FlightMutation&gt;
..
        &lt;/ODS&gt;
    &lt;/S:Body&gt;
&lt;/S:Envelope&gt;</Message>
</JMS>
```

Setting 3 Settingsfile for JMS with Message included.

The settingsfile contains an xml with the appropriate queue settings.

QUEUE Settings

Tag	Description
MQ, MQSTR or JMS	The root tag determines if a simple string is send or a JMS message. MQSTR is the same as MQ, only the message format is set to STRING instead of NONE.
HostName	Contains the Host name or IP address of the queue.
Channel	Contains the name of the channel
Port	Default value is 1414
QueueName	Contains the name of the queue where the message is send to.
PassWord	Optional, default = ""
UserID	Optional, default = ""
Message	Optional field. If used, the Message file is not required. However an XML message needs to be adjusted. Also serialization takes place which could effect the message. It is therefore not recommended to use this option.

ConnectionProperties	This can be used to set the properties of a JMS Connection Factory. It is not used for MQ string messages. The properties are set via a key, value and type, e.g.:
	`<PropValue>`
	`  <key>Content_Type</key>`
	`  <value>text/xml; charset=utf-8</value>`
	`  <type>STRING</type>`
	`</PropValue>`

MessageProperties	This can be used to set properties of a JMS message. It is not used for MQ string messages. The properties are set via a key, value and type, e.g.:
	`<PropValue>`
	`  <key>Content_Type</key>`
	`  <value>text/xml; charset=utf-8</value>`
	`  <type>STRING</type>`
	`</PropValue>`

MQ Connection Properties

If needed, some connection properties can be set. The specific properties can be set by providing the key, value and type. The following table shows all the properties that can be set for MQ and MQSTR connections

Key	Value	Type	Description
CCSID	DEFAULT (1208) Or any integer value	N.A.	Sets the CCSID. Default is not set, but determined by the system.
OPENOPTIONS	any integer value	N.A.	Sets the Open Options, default is MQOO_OUTPUT (16). Normally, this should not be changed.
CLOSEOPTIONS	any integer value	N.A.	Sets the Close options. Default is not set, but determined by the system.
ALTERNATEUSERID	Any string value	N.A.	Default "". Normally, this should not be changed.
INHIBIT	any integer value	N.A.	NO INFO! Normally, this should not be changed.
QUEUEMANAGERCMDLEVEL	any integer value	N.A.	NO INFO! Normally, this should not be changed.
TRIGGERCONTROL	any integer value	N.A.	NO INFO! Normally, this should not be changed.
TRIGGERDATA	any string value	N.A.	NO INFO! Normally, this should not be changed.
TRIGGERDEPTH	any integer value	N.A.	NO INFO! Normally, this should not be changed.
TRIGGERMESAGEPRIORITY	any integer value	N.A.	NO INFO! Normally, this should not be changed.
TRIGGERTYPE	any integer value	N.A.	NO INFO! Normally, this should not be changed.

MQ Message Properties

MQ Messages contain some standard properties and some specific properties per application.

If needed, these properties can be set. The specific properties can be set by providing the key, value and type. Type can be either "STRING", "CHAR" (is treated as a string), "DOUBLE", "FLOAT", "INT", "LONG", "SHORT", "BOOLEAN" or "BYTE".
Apart from these Message properties, some standard properties can be set as shown in the following table.

Key	Value	Type	Description
EXPIRATION	UNLIMITED (-1) Or any integer value	N.A.	Sets the expiry time for a message. Default is UNLIMITED (value = -1).
TYPE	Any integer value	N.A.	Sets the message type. Default value is 8
DELIVERYMODE	PERSISTANT (1) PER (1) NONPERSISTANT (0) NON (0) Or any integer value	N.A.	Sets the deliverymode for a message.
MESSAGEID	Any string value	N.A.	Sets the message ID.
PRIORITY	Any integer value	N.A.	Sets the priority. This is a number from 0 to 9 with 9 being the highest priority. Default value is 4.
CORRELATIONID	Any string value	N.A.	Sets the correlation ID of the message.
REPLYTO	Any string value	QUEUEMANAGER QUEUE (default)	Sets the ReplyTo property. This can be a Queuemanager or Queue with the provided name.
FORMAT	Any string value	STRING, MQSTR, MQFMT_STRING NONE, MQFMT_NONE	Sets the FORMAT property. Default is " " via MQ or "MQSTR " via MQSTR. Any other type name will set the format to the provided value.
CHARACTERSET CHARSET	Any integer value	N.A.	Sets the characterset property.
APPIDDATA APPLICATIONIDDATA	Any string value	N.A.	Sets the application ID Data property.
APPORGDATA APPLICATIONORIGINDATA	Any string value	N.A.	Sets the application Origin Data property.
BACKOUTCOUNT	Any integer value	N.A.	Sets the BackoutCount property.
ENCODING ENC	Any integer value	N.A.	Sets the Encoding property.
FEEDBACK	Any integer value	N.A.	Sets the Feedback property.
MSGFLAGS MESSAGEFLAGS	Any integer value	N.A.	Sets the MessageFlags property.
MSGSEQNR MESSAGESEQUENCENUMBER	Any integer value	N.A.	Sets the Message Sequence Number property.
OFFSET	Any integer value	N.A.	Sets the Offset property.

JMS Message Properties

JMS Messages contain some standard properties and some specific properties per application.

If needed, these properties can be set. The specific properties can be set by providing the key, value and type. Type can be either "STRING", "CHAR" (is treated as a string), "DOUBLE", "FLOAT" , "INT" , "LONG" , "SHORT" , "BOOLEAN" or "BYTE".

Apart from the JMS Message properties that are depending on the JMS application (e.g. the property "SoapAction"), some standard properties can be set as shown in the following table.

Key	Value	Type	Description
JMSEXPIRATION EXPIRATION	UNLIMITED (0) APP (2) Or any long value	N.A.	Sets the expiry time for a message. Default is UNLIMITED (value = 0).
JMSTYPE TYPE	Any string value	N.A.	Sets the message type. Default value is "jms_bytes"
JMSDELIVERYMODE DELIVERYMODE	PERSISTANT (1) PER (1) NONPERSISTANT (2) NON (2) Or any long value	N.A.	Sets the deliverymode for a message.
JMSMSGID MESSAGEID	Any string value	N.A.	Sets the message ID.
JMSPRIORITY PRIORITY	Any integer value	N.A.	Sets the priority. This is a number from 0 to 9 with 9 being the highest priority. Default value is 4.
JMSCORRELATIONID	Any string value	N.A.	Sets the correlation ID of the JMS message.
JMSREPLYTO	Any string value	TOPIC TEMPORARYQUEUE TEMPORARYTOPIC QUEUE (default)	Sets the ReplyTo property. This can be a Topic or Queue with the provided name. The value is not used when the type is a temporary Queue or topic.
JMSDESTINATION	Any string value	TOPIC TEMPORARYQUEUE TEMPORARYTOPIC QUEUE (default)	Sets the JMSDestination property. This can be a Topic or Queue with the provided name. The value is not used when the type is a temporary Queue or topic. This is normally not used, because the destination Queue is set already via the session producer.
JMSTIMESTAMP	Any long value	N.A.	Sets the timestamp of the message. Normally this is set automatically.
JMSREDELIVERED	True/False	N.A.	Sets the redelivered property.

JMS Connection Properties

Normally the default properties for the connectionFactory are used. If needed, these properties can be set. The property type can be either "STRING", "CHAR", "DOUBLE", "FLOAT" , "INT" , "LONG" , "SHORT" , "BOOLEAN" or "BYTE".

Default set by MQPut:

"XMSC_WMQ_CONNECTION_MODE" = 1 ("WMQ_CM_CLIENT")
"XMSC_WMQ_HOST_NAME"
"XMSC_WMQ_CHANNEL"
"XMSC_WMQ_PORT"
"XMSC_WMQ_QUEUE_MANAGER"
"XMSC_USERID"
"XMSC_PASSWORD"

The properties that can be set, as obtained from
http://www.ibm.com/support/knowledgecenter/SSFKSJ_8.0.0/com.ibm.mq.msc.doc/props_connf.htm:

Name of property	Description
XMSC_ASYNC_EXCEPTIONS	This property determines whether XMS informs an ExceptionListener only when a connection is broken, or when any exception occurs asynchronously to an XMS API call. This property applies to all Connections created from this ConnectionFactory that have an ExceptionListener registered.
XMSC_CLIENT_ID	The client identifier for a connection.
XMSC_CONNECTION_TYPE	The type of messaging server to which an application connects.
XMSC_PASSWORD	A password that can be used to authenticate the application when it attempts to connect to a messaging server.
XMSC_RTT_BROKER_PING_INTERVAL	The time interval, in milliseconds, after which XMS .NET checks the connection to a Real Time messaging server to detect any activity.
XMSC_RTT_CONNECTION_PROTOCOL	The communications protocol used for a real-time connection to a broker.
XMSC_RTT_HOST_NAME	The host name or IP address of the system on which a broker runs.
XMSC_RTT_LOCAL_ADDRESS	The host name or IP address of the local network interface to be used for a real-time connection to a broker.
XMSC_RTT_MULTICAST	The multicast setting for a connection factory or destination.
XMSC_RTT_PORT	The number of the port on which a broker listens for incoming requests.

Name of property	Description
XMSC_USERID	A user identifier that can be used to authenticate the application when it attempts to connect to a messaging server.
XMSC_WMQ_BROKER_CONTROLQ	The name of the control queue used by a broker. Note: This property can be used with Version 2.0 of IBM® Message Service Client for .NET but has no effect for an application connected to a IBM WebSphere® MQ Version 7.0 queue manager unless the XMSC_WMQ_PROVIDER_VERSION property of the connection factory is set to a version number less than 7.
XMSC_WMQ_BROKER_PUBQ	The name of the queue monitored by a broker where applications send messages that they publish. Note: This property can be used with Version 2.0 of IBM Message Service Client for .NET but has no effect for an application connected to a IBM WebSphere MQ Version 7.0 queue manager unless the XMSC_WMQ_PROVIDER_VERSION property of the connection factory is set to a version number less than 7.
XMSC_WMQ_BROKER_QMGR	The name of the queue manager to which a broker is connected. Note: This property can be used with Version 2.0 of IBM Message Service Client for .NET but has no effect for an application connected to a IBM WebSphere MQ Version 7.0 queue manager unless the XMSC_WMQ_PROVIDER_VERSION property of the connection factory is set to a version number less than 7.
XMSC_WMQ_BROKER_SUBQ	The name of the subscriber queue for a nondurable message consumer. Note: This property can be used with Version 2.0 of IBM Message Service Client for .NET but has no effect for an application connected to a IBM WebSphere MQ Version 7.0 queue manager unless the XMSC_WMQ_PROVIDER_VERSION property of the connection factory is set to a version number less than 7.
XMSC_WMQ_BROKER_VERSION	The type of broker used by the application for a connection or for the destination. Note: This property can be used with Version 2.0 of IBM Message Service Client for .NET but has no effect for an application connected to a IBM WebSphere MQ Version 7.0 queue manager unless the

Name of property	Description
	XMSC_WMQ_PROVIDER_VERSION property of the connection factory is set to a version number less than 7.
XMSC_WMQ_CCDTURL	A Uniform Resource Locator (URL) that identifies the name and location of the file that contains the client channel definition table and also specifies how the file can be accessed.
XMSC_WMQ_CHANNEL	The name of the channel to be used for a connection.
XMSC_WMQ_CLIENT_RECONNECT_OPTIONS	This property specifies the client reconnect options for new connections created by this factory
XMSC_WMQ_CLIENT_RECONNECT_TIMEOUT	This property specifies the duration of time, in seconds, that a client connection attempts to reconnect.
XMSC_WMQ_CONNECTION_MODE	The mode by which an application connects to a queue manager.
XMSC_WMQ_CONNECTION_NAME_LIST	This property specifies the hosts to which the client attempts to reconnect to after its connection are broken.
XMSC_WMQ_FAIL_IF_QUIESCE	Whether calls to certain methods fail if the queue manager to which the application is connected is in a quiescing state.
XMSC_WMQ_HOST_NAME	The host name or IP address of the system on which a queue manager runs.
XMSC_WMQ_LOCAL_ADDRESS	For a connection to a queue manager, this property specifies the local network interface to be used, or the local port or range of local ports to be used, or both.
XMSC_WMQ_MESSAGE_SELECTION	Determines whether message selection is done by the XMS client or by the broker. Note: This property can be used with Version 2.0 of IBM Message Service Client for .NET but has no effect for an application connected to a IBM WebSphere MQ Version 7.0 queue manager unless the XMSC_WMQ_PROVIDER_VERSION property of the connection factory is set to a version number less than 7.
XMSC_WMQ_MSG_BATCH_SIZE	The maximum number of messages to be retrieved from a queue in one batch when using asynchronous message delivery. Note: This property can be used with Version 2.0 of IBM Message Service Client for .NET but has no effect for an application connected to a IBM WebSphere MQ Version 7.0 queue manager unless the XMSC_WMQ_PROVIDER_VERSION property of the

Name of property	Description
	connection factory is set to a version number less than 7.
XMSC_WMQ_POLLING_INTERVAL	If each message listener within a session has no suitable message on its queue, this value is the maximum interval, in milliseconds, that elapses before each message listener tries again to get a message from its queue. Note: This property can be used with Version 2.0 of IBM Message Service Client for .NET but has no effect for an application connected to a IBM WebSphere MQ Version 7.0 queue manager unless the XMSC_WMQ_PROVIDER_VERSION property of the connection factory is set to a version number less than 7.
XMSC_WMQ_PROVIDER_VERSION	The version, release, modification level and fix pack of the queue manager to which the application intends to connect.
XMSC_WMQ_PORT	The number of the port on which a queue manager listens for incoming requests.
XMSC_WMQ_PUB_ACK_INTERVAL	The number of messages published by a publisher before the XMS client requests an acknowledgement from the broker. Note: This property can be used with Version 2.0 of IBM Message Service Client for .NET but has no effect for an application connected to a IBM WebSphere MQ Version 7.0 queue manager unless the XMSC_WMQ_PROVIDER_VERSION property of the connection factory is set to a version number less than 7.
XMSC_WMQ_PUT_ASYNC_ALLOWED	This property determines whether message producers are allowed to use asynchronous puts to send messages to this destination.
XMSC_WMQ_QMGR_CCSID	The identifier (CCSID) of the coded character set, or code page, in which fields of character data defined in the Message Queue Interface (MQI) are exchanged between the XMS client and the WebSphere MQ client.
XMSC_WMQ_QUEUE_MANAGER	The name of the queue manager to connect to.
XMSC_WMQ_RECEIVE_EXIT	Identifies a channel receive exit to be run.
XMSC_WMQ_RECEIVE_EXIT_INIT	The user data that is passed to a channel receive exit when it is called.
XMSC_WMQ_SECURITY_EXIT	Identifies a channel security exit.
XMSC_WMQ_SECURITY_EXIT_INIT	The user data that is passed to a channel security exit when it is called.

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Name of property	Description
XMSC_WMQ_SEND_CHECK_COUNT	The number of send calls to allow between checking for asynchronous put errors, within a single non-transacted XMS session.
XMSC_WMQ_SEND_EXIT	Identifies a channel send exit.
XMSC_WMQ_SEND_EXIT_INIT	The user data that is passed to channel send exits when they are called.
XMSC_WMQ_SHARE_CONV_ALLOWED	Whether a client connection can share its socket with other top-level XMS connections from the same process to the same queue manager, if the channel definitions match. This property is provided to allow complete isolation of Connections in separate sockets if required for application development, maintenance, or operational reasons.
XMSC_WMQ_SSL_CERT_STORES	The locations of the servers that hold the certificate revocation lists (CRLs) to be used on an SSL connection to a queue manager.
XMSC_WMQ_SSL_CIPHER_SPEC	The name of the CipherSpec to be used on a secure connection to a queue manager.
XMSC_WMQ_SSL_CIPHER_SUITE	The name of the CipherSuite to be used on an SSL or TLS connection to a queue manager. The protocol used in negotiating the secure connection depends on the specified CipherSuite.
XMSC_WMQ_SSL_CRYPTO_HW	Configuration details for the cryptographic hardware connected to the client system.
XMSC_WMQ_SSL_FIPS_REQUIRED	The value of this property determines whether an application can or cannot use non-FIPS compliant cipher suites. If this property is set to true, only FIPS algorithms are used for the client-server connection.
XMSC_WMQ_SSL_KEY_REPOSITORY	The location of the key database file in which keys and certificates are stored.
XMSC_WMQ_SSL_KEY_RESETCOUNT	The KeyResetCount represents the total number of unencrypted bytes sent and received within an SSL conversation before the secret key is renegotiated.
XMSC_WMQ_SSL_PEER_NAME	The peer name to be used on an SSL connection to a queue manager.
XMSC_WMQ_SYNCPOINT_ALL_GETS	Whether all messages must be retrieved from queues within sync point control.
XMSC_WMQ_TARGET_CLIENT	

Name of property	Description
XMSC_WMQ_TEMP_Q_PREFIX	The prefix used to form the name of the WebSphere MQ dynamic queue that is created when the application creates an XMS temporary queue.
XMSC_WMQ_TEMP_TOPIC_PREFIX	When creating temporary topics, XMS generates a topic string of the form "TEMP/TEMPTOPICPREFIX/unique_id", or if this property contains the default value, then this string, "TEMP/unique_id", is generated. Specifying a non-empty value allows specific model queues to be defined for creating the managed queues for subscribers to temporary topics created under this connection.
XMSC_WMQ_TEMPORARY_MODEL	The name of the WebSphere MQ model queue from which a dynamic queue is created when the application creates an XMS temporary queue.
XMSC_WPM_BUS_NAME	For a connection factory, the name of the service integration bus that the application connects to or, for a destination, the name of the service integration bus in which the destination exists.
XMSC_WPM_CONNECTION_PROXIMITY	The connection proximity setting for the connection.
XMSC_WPM_DUR_SUB_HOME	The name of the messaging engine where all durable subscriptions for a connection or a destination are managed.
XMSC_WPM_LOCAL_ADDRESS	For a connection to a service integration bus, this property specifies the local network interface to be used, or the local port or range of local ports to be used, or both.
XMSC_WPM_NON_PERSISTENT_MAP	The reliability level of nonpersistent messages that are sent using the connection.
XMSC_WPM_PERSISTENT_MAP	The reliability level of persistent messages that are sent using the connection.
XMSC_WPM_PROVIDER_ENDPOINTS	A sequence of one or more endpoint addresses of bootstrap servers.
XMSC_WPM_TARGET_GROUP	The name of a target group of messaging engines.
XMSC_WPM_TARGET_SIGNIFICANCE	The significance of the target group of messaging engines.
XMSC_WPM_TARGET_TRANSPORT_CHAIN	The name of the inbound transport chain that the application must use to connect to a messaging engine.
XMSC_WPM_TARGET_TYPE	The type of the target group of messaging engines.
XMSC_WPM_TEMP_Q_PREFIX	The prefix used to form the name of the temporary queue that is created in the service integration bus

Name of property	Description
	when the application creates an XMS temporary queue.
XMSC_WPM_TEMP_TOPIC_PREFIX	The prefix used to form the name of a temporary topic that is created by the application.

MQ Message Formats

MQ Messages formats can be any of the following values. It can be setting the format property to the 8 char string. Note that 'b' means a blank space.

MQFMT_NONE	`"bbbbbbbb"`
MQFMT_ADMIN	`"MQADMINb"`
MQFMT_CHANNEL_COMPLETED	`"MQCHCOMb"`
MQFMT_CICS	`"MQCICSbb"`
MQFMT_COMMAND_1	`"MQCMD1bb"`
MQFMT_COMMAND_2	`"MQCMD2bb"`
MQFMT_DEAD_LETTER_HEADER	`"MQDEADbb"`
MQFMT_DIST_HEADER	`"MQHDISTb"`
MQFMT_EMBEDDED_PCF	`"MQHEPCFb"`
MQFMT_EVENT	`"MQEVENTb"`
MQFMT_IMS	`"MQIMSbbb"`
MQFMT_IMS_VAR_STRING	`"MQIMSVSb"`
MQFMT_MD_EXTENSION	`"MQHMDEbb"`
MQFMT_PCF	`"MQPCFbbb"`
MQFMT_REF_MSG_HEADER	`"MQHREFbb"`
MQFMT_RF_HEADER	`"MQHRFbbb"`
MQFMT_RF_HEADER_1	`"MQHRFbbb"`
MQFMT_RF_HEADER_2	`"MQHRF2bb"`
MQFMT_STRING	`"MQSTRbbb"`
MQFMT_TRIGGER	`"MQTRIGbb"`
MQFMT_WORK_INFO_HEADER	`"MQHWIHbb"`
MQFMT_XMIT_Q_HEADER	`"MQXMITbb"`

CCSID

CCSID means Coded Character Set Identifiers. The following table shows some used CCSID's.
All values can be found in https://www-01.ibm.com/software/globalization/ccsid/ccsid_registered.html

CCSID (decimal)	CCSID (hex)	Name
37	0025	COM EUROPE EBCDIC
256	0100	NETHERLAND EBCDIC
259	0103	SYMBOLS SET 7
273	0111	AUS/GERM EBCDIC
297	0129	FRENCH EBCDIC
437	01B5	USA PC-DATA
500	01F4	INTL EBCDIC
819	0333	ISO 8859-1 Latin
1200	04B0	UTF-16 BE with IBM PUA
1201	04B1	UTF-16 BE
1202	04B2	UTF-16 LE with IBM PUA
1203	04B3	UTF-16 LE
1204	04B4	UTF-16 with IBM PUA
1205	04B5	UTF-16
1208	04B8	UTF-8 with IBM PUA
1209	04B9	UTF-8
1210	04BA	UTF-EBCDIC with IBM PUA
1211	04BB	UTF-EBCDIC
1232	04D0	UTF-32 BE with IBM PUA
1233	04D1	UTF-32 BE
1234	04D2	UTF-32 LE with IBM PUA
1235	04D3	UTF-32 LE
1236	04D4	UTF-32 with IBM PUA
1237	04D5	UTF-32

ExitCodes

The program provides the following exitcodes for success or fail:

Exitcode	Status
-1	No arguments provided or settings file does not exists or is empty.
-2	The provided message file does not exist or is empty.
-3	An error has occurred while loading the settings file (check the content for correct tagnames).
-99	An error has occurred in the main program.
0	The message has not been send correctly.
1	The message have been successfully send