JavaMail

Folder Handling

Operations expecting a folderPath argument will treat this the following way:

Folder Path	Description	Example
NULL	This is interpreted as meaning the <inbox> folder.</inbox>	
path beginning with /	This is interpreted as a path from the mail connections root folder.	/Archive /Orders
path not beginning with /	This is interpreted as a relative path to the <inbox> folder, so translates to /<inbox>/Archive/Orders.</inbox></inbox>	Archive /Orders

The intention of this behavior is to abstract away the fact that <Inbox> has many different names depending on the connection, i.e. IMAP typically uses INBOX, Exchange calls it Inbox, and a German Exchange calls it Posteingang.

Also note that POP3 does not support folders other than <Inbox>. Hence when you specify a POP3 connection, folderPath parameters other than NULL will raise an exception.

Operations

readMessages



Optional: IPgpKeyProvider Implementation

For PGP decryption to work, be sure to register your implementation of IPgpKeyProvider (see Keys and Certificates). If not provided, PGP encrypted messages will still be retrieved, with two attachments that contain the encrypted message information.

Parameter	Туре	Direction	Description
connection	Connection	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).
flags	ReadFl ags	in	Specify an instance of ReadFlags to set some mail reading flags.
folderPath	String	in	Specify a path to a folder to read from. See note regarding folder handling.

readMessagesFiltered



Optional: IPgpKeyProvider Implementation

For PGP decryption to work, be sure to register your implementation of IPgpKeyProvider (see Keys and Certificates). If not provided, PGP encrypted messages will still be retrieved, with two attachments that contain the encrypted message information.

Parameter	Types	Direction	Description
connection	Connecti	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).
flags	ReadFla gs	in	Specify an instance of ReadFlags (see below).
folderPath	String	in	Specify a path to a folder to read from. See note regarding folder handling.

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filter	Filter in	Specify an instance of Filter containing the filter criteria.	
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deleteMessage

Parameter	Types	Direction	Description
connection	Connecti	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).
mail	Received Mail	in	Provide a previously received mail object.

deleteMessages

Parameter	Types	Direction	Description
connection	Connection	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).
mail	Array of Rec eivedMail	in	Provide an array previously received mail object.

deleteMessagesFiltered

Parameter	Types	Direction	Description	Allowed Values / Example
connection	Connecti	in	Specify the Con nection object defining the mail server connection parameters to use (see Mail Server Connection).	
folderPath	String	in	Specify a path to a folder to delete from. See note regarding folder handling.	orders/incoming
filter	Filter	in	Specify an instance of Filter containing the filter criteria. If no filter criteria are set, i.e. if you provi de an empt y filter, all mes sage s will be delet ed.	

affectedMes sages	Integer	out	Returns the number of deleted messages.	This might be lower than the total number of messages matching the filter if that number is huge, as mail servers may restrict the maximum number of messages processed in one call. If you want to be sure that all messages matching the filter are actually deleted, call this operation in a loop until af fectedMessages becomes 0.
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move Message

Parameter	Types	Direction	Description	Allowed Values / Example
connection	Connecti	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).	
mail	Received Mail	in	Provide an array previously received mail object.	
folderPath			Specify a path to a specific sub-folder to move the message to. See note regarding folder handling.	orders /incoming /accepted
			POP3 connections will cause an exception to be thrown here, as POP3 does not support the concept of folders.	

sendMessage

Parameter	Types	Direction	Description
connection	Connecti	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).
mail	Mail	in	Prepare a mail object to send.

sendPgpMessage



(i) Requires IPgpKeyProvider Implementation

For PGP encryption to work, be sure to register your implementation of IPgpKeyProvider (see Keys and Certificates).

Parameter	Types	Direction	Description	A	llowed Values / Example
connection	Connecti	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).		
mail	Mail	in	Prepare a mail object to send.		
encryptionM ode	String	tring in	Specify one of the encryption modes.	P R E F ER	Apply encryption when PGP keys can be retrieved (see Keys and Certificates), otherwise do not apply any encryption.
				E N F O R CE	Apply encryption when PGP keys can be retrieved, otherwise throw an exception.
				N O NE	Do not apply any encryption (default, same behavior as send Message()).

listFolders

Parameter	Types	Direction	Description	V	llowed alues / xample
connection	Connecti	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).		
parentFolder	String	in	Specify the path to the parent folder. See note regarding folder handling.		List folders below <inb ox>.</inb
			١	List folders below root folder.	
				a List folders p below ath given path.	
folders	Array of String	return	Returns a recursive list of sub-folder paths.		orders orders /incoming orders /incomin g /accepted

existsFolderPath

Parameter	Types	Direction	Description		llowed alues / xample
connection	Connecti	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).		
folderPath	String	in	Specify the path to the folder to check. See note regarding folder handling.	orders /outgoing	
exists	Boolean	return	Returns if the given folder is existent on the mail server.	tr ue	Folder exists.
				fa Ise	Folder does not exist.

createFolderPath

Parameter	Types	Direction	Description	Allowed Values / Example
connection	Connecti	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).	
folderPath	String	in	Specify the path to the folder to be created. See note regarding folder handling.	orders /outgoing

deleteFolderPath

Parameter	Types	Direction	Description	Allowed Values / Example
connection	Connecti	in	Specify the Connection object defining the mail server connection parameters to use (see Mail Server Connection).	

folderPath String in Specify the path to the folder to be deleted recursively. See note regarding folder handling. orders /incom: /accept Delete for epted fir folder in orders Delete for ers and folders a contents
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loadCertificateStore

Parameter	Types	Direction	Description	Allowed Values / Example
keyStoreLocati on	String	in	Specify the path to the keystore file.	opt/bridge/crypto /mailservercerts.jks
keyStorePass word	String	in	Specify the password of the keystore.	

IoadPgpPublicKeyRing



i to be discontinued

Future versions of the library will rely on setPgpKeyProvider() solely (see below), this operation will disappear. Until then it is still required if you want to verify signatures of unencrypted emails.

Parameter	Types	Direction	Description	Allowed Values / Example
keyRingLocati on	String	in	Specify the path to the keyring file.	opt/bridge/crypto/pubkeys.

setPgpKeyProvider

Parameter	Types	Direction	Description	Allowed Values / Example
provider	IPgpKeyPro vider	in	Instance of a class implementing the IPgpKeyProvider interface	

Types

Connection

Attribute Name	Туре	Description	Allowed Values		
debug	Boolean	Specify whether to write additional debug information	true	Additional debug information is written to the bridgeserver log.	
		to the bridgeserver log.	false	No additional logs (default).	
exchangeV	String	Specify the Microsoft Exchange version (optional).	2007_SP1	Exchange 2007 Service Pack 1	
ersion			2010	Exchange 2010	
			2010_SP1	Exchange 2010 Service Pack 1	
				Exchange 2010 Service Pack 2 and higher (default)	

host	String	Specify the host name/IP address of the mail server.	a valid host name or IP address	for exchange connections this can be left NULL, triggering Autodiscover (which might fail) for office 365 connections this is ignored
microsoftO nlineCrede ntials	Object	Specify OAuth login credentials for Microsoft Online connections	a valid set of credentials	either this or usernamePasswordCredentials must be set
port	Integer	Specify the port of the mail server (optional)	a valid port number	If omitted (NULL), the standard port for the chosen protocol and security is used.
protocol	String	Specify the protocol used for	imap	Use the IMAP protocol.
		e-mail retrieval and storage. Values are not case sensitive.	imaps	Use IMAP over SSL.
			pop3	Use POP3.
			smtp	Use the SMTP protocol.
			smtps	Use the SMTPS protocol.
			exchange	Use Exchange Web Service (EWS) API with a hosted Exchange Server
			office365	Use Exchange Web Service (EWS) API with a Office 365 Server (will ignore host).
security	String	Specify the encryption. Values are not case sensitive.	none	No encryption used. exchange and office365 protocol (see attribute protocol) use SSL in any case, this cannot be overridden.
		exchange and office36 5 protocols ignore this	ssl	Use SSL encryption.
		setting and use ssl anyway.	starttls	Use TLS encryption. exchange and office365 protocol (see attribute protocol) use SSL in any case, this cannot be overridden.
				Make sure to pick imap, pop3, or smtp with this setting, not imaps, pop3s, or smtps.
timeoutSec onds	Integer	Specify the number of seconds after which a request (send or receive) times out.	• infinite	which translates to the following defaults: timeout for imap(s), pop3(s), and smtp(s) conds for exchange
usernameP asswordCre dentials	Object	Specify the user's credentials	a valid set of credentials	either this or microsoftOnlineCredentials must be set
verifyHost	Boolean	Specify whether for SSL connections the mail server host shall be verified or not	true	Verify the mail server's SSL certificate (default, see also security).
		(optional).	false	Do not verify the mail server.
Username a	nd Passw	ord Credentials		
usernameP asswordCre dentials. username	String	Specify the user account on the mail server.	a valid user name	Some SMTP servers allow unauthorized sending, in these cases you may leave it as NULL.
usernameP asswordCre dentials. password	String	Specify the user's password.	a valid password	Some SMTP servers allow unauthorized sending, in these cases you may leave it as NULL.
Microsoft O	nline Crec	lentials (only applicable to offic	e365 protoco	ol)
microsoftO nlineCrede ntials. clientId	String	client id of your app registration	For details o please follow microsoft.com /exchange-w	n registering EWS access via OAuth the steps as outlined here: https://docs. m/en-us/exchange/client-developer reb-services/how-to-authenticate-an-ews- ny-using-oauth
			Make sure to	o follow the path for "app-only on"

microsoftO nlineCrede ntials. clientSecret	String	client secret of your app registration			
microsoftO nlineCrede ntials. tenantId	String	tenant id of your microsoft online organization			
microsoftO nlineCrede ntials. impersonat edUser	String	name (email address) of the mailbox you want to impersonate	a valid email address	Provide the email address of the mailbox you want to interact with (e.g. read messages from)	
Proxy Settings	s (only app	licable to HTTP based connection	ns, i.e. exchan	ge or office365 protocol)	
proxy.host	String	Specify the host name/IP address of the proxy server.	a valid host name or IP address		
proxy.port	Integer	Specify the port of the proxy server.	a valid port number		
proxy. domain	String	Specify the user domain on the proxy server (optional). Some Windows-based proxy servers might require this for authentication.	a valid ActiveDirectory domain name		
proxy.user	String	Specify the user account on the proxy server (optional).	a valid user		
proxy. password	String	Specify the user's password (optional).	a valid passv	word	

ReadFlags

Attribute Name	Туре	Description	Allowed Values	Comment
maxResult Count	Integer Specify a limit for the number of messages to be returned.	any positive integer	Default is NULL, meaning no limit is imposed.	
		If you do not provide a filter as parameter, it makes sense to provide a meaningful limit, as the complete result set will be kept in memory.		
deleteOnSe rver	Boolean Specify whether successfully read messages will automatically be deleted on the server.		true	Delete messages on server after successful read. Messages that cannot be read successfully will not be deleted.
			false	Do not delete messages on server (default).
markAsRead Boolea	Boolean	Specify whether successfully read messages will automatically be marked as read on the server.	true	Mark messages as read on server after successful read. Messages that cannot be read successfully will not be marked read.
			false	Do not mark messages read on server (default).
withContent	Boolean	Specify whether the message body (HTML	true	Populate message body.
		and/or plain text) should be populated.	false	Message body is empty (default).
withAttach	Boolean	Specify whether attachments should be	true	Retrieve attachments.
ments		retrieved.	false	Do not retrieve attachments (default).
withEmbed dedMails	Boolean	Specify whether attachments with mime type message/rfc822 should be retrieved as embedded messages. Requires withAttachments to be true to have an effect.	true	Retrieve attachments with mime type message /rfc822 as embedded messages.

			false	Do not retrieve attachments with mime type message/rfc822 as embedded messages, but as regular attachments (default).
withHeaders	Boolean	Specify whether messaging headers should be populated.	true	Populate messaging headers.
			false	Messaging headers are empty (default).
withRawCo ntents	Boolean	Specify whether the raw message source should be retrieved.	false	Retrieve raw message source. This is similar to "view source" on most email clients, hence the output can be huge.
verifySignat ures	Boolean	Specify whether for any signed messages a verification of the signature should be attempted.	true	message source (default). Verify signature. To successfullly verify PGP signatures, a public key ring must be provided with the connection parameter.
			false	Do not verify signature (default).

Filter

Attribute Name	Туре	Description	A	llowed Values
unreadOnly	Boolean	Specify whether only unread messages should be returned.	tr ue	Return unread messages only.
			f al se	Return all messages (default).
fromTimest amp	DateTi me	Specify the beginning of a date range that should be used to retrieve messages (see also toTimestamp below).	any	/ DateTime
		Make sure that fromTimestamp and toTimestamp do not contradict each other as this is not checked.		
toTimestamp	DateTi me	Specify the end of a date range that should be used to retrieve messages (see also fromTimestamp below).	any	/ DateTime
		Make sure that fromTimestamp and toTimestamp do not contradict each other as this is not checked.		
subjectSub string	String	Specify a filter substring for the email subject. Only messages containing this string as a literal substring are returned.	prii	/ String with ntable characters se sensitive)
		subjectSubstring is case sensitive.		
sender	String	Specify a dedicated sender you want to retrieve messages from. Only message sent from this address are returned	add	/ valid email dress (case ensitive)

senderRegex	String	Specify a regex filter to be applied to the mail sender. Only messages with the sender matching the filter expression are returned.	any valid regular expression (Java style)
subjectReg ex	String	Specify a regex filter to be applied to the mail subject. Only messages with the subject matching the filter expression are returned.	any valid regular expression (Java style)
attachment NameRegex	String	Specify a regex filter to be applied to the mail attachments. Only messages with at least one attachment's name matching the filter expression are returned. Make sure that you are using withAttachments = true when reading the mails (see ReadFlags).	any valid regular expression (Java style)

ReceivedMail

ReceivedMail inherits from Mail, so contains all attributes of Mail plus a few more.

Attribute Name	Туре	ype Description				
sender	String	Contains the email address of the sender.				
toRecipients	Array of String	Contains an array of TO recipient's email addresses.				
ccRecipients	Array of String	Contains an array of CC recipient's email addresses.				
bccRecipients	Array of String	Contains an array of BCC recipient's email addresses.				
subject	String	Contains the email subject.				
attachments	Array of Atta chment	Contains an array of email attachments.				
		If this is not populated, you may have set withAttach ments = false when reading the mails (see ReadFla gs).				
plainTextCo String ntent		Contains the plain text message if available.				
		Mime messages may contain HTML, Plain Text, or both.				
htmlTextCon tent	String	Contains the HTML message if available.				
		Mime messages may contain HTML, Plain Text, or both.				
id	String	Contains the unique ID of the message within a folder on the mail server.				
receiveDate	DateTime	Contains a timstamp indicating when the message arrived on the server.				
sentDate	DateTime	Contains a timstamp indicating when the message has been sent.				
headers	Array of Mail Header	Contains an array of internet email headers.				
		If this is not populated, you may have set withHeade rs = false when reading the mails (see ReadFlags).				

embeddedM ails	Array of Rec eivedMail	Contains an array of nested/embedded mail objects (attached email messages, e.geml or .msg attachments). If this is not populated, you may have set withAttach ments = false when reading the mails (see ReadFla gs).		
receiveStatus	MailReceive Status	Contains detailed information about the receive status of the email.		
folder	String	Contains the folder the message was read from.	NU LL	<inbox>.</inbox>
			fold er path	The folder path below <in box="">.</in>
signed	Boolean	Contains the signing status of the message.	true	Message is signed.
			false	Message is not signed.
encrypted	Boolean	Contains the encryption status of the message.	true	Message is encrypted.
		detection is supported, however receiveStatus.success will always be false, as decryption is not yet supported	false	Message is not encrypted.
signatureVer ificationRes ult	SignatureVe rificationRes ult	Contains detailed information about the verification of signatures.		
rawMessage Text	Blob	Contains the raw message.		
		If this is not populated, you may have set withRawC ontents = false when reading the mails (see ReadFl ags).		

Attachment

Attribute Name	Туре	Description	Po	ossible Values
binary Bo	Boolean	Indicates whether binary Content or stringConte	true	Attachment contents canl be found in, or shall be taken from, binaryContent.
		nt is used.	fal se	Attachment contents can/shall be found in, or shall be taken from, stringContent .
filename	String	The filename of the attachment.	•	can be NULL
			T tl	Sending Messages This is the name of the file as you want it to appear at the recipient's side, or vice versa. On not provide a local file name here and expect the brary to load the attachment from that file. Use the File System Adapter instead, and provide the attachment is binary blob content (see binaryContent).
binaryCont ent	Blob	Contains the binary content.	E	Either one of binaryContent or stringContent is provided, depending on binary .

stringConte nt	String	Contains the non-binary content.	any String Either one of binaryContent or stringContent is provided, depending on binary.			
mimeType	String	Contains the mime type (content type) of the attachment.	any valid MIME content-type, e.g. text/plain, image/png, application/octet-stream etc. mimeType is unreliable upon receiving emails, i.e. can be NULL. Especially when reading from Exchange servers using exchange or office365 connections.			
contentId	String	The content id of the attachment, a unique id across all attachments of the same message.	When set to e.g. myUniqueId, you can refer to this attachment from HTML message content like 			
inline Boolean		attachment is flagged	true	Attachment is flagged, and will be displayed inline within a HTML message.		
	with the corresponding content disposition tag.		fal se	Attachment is not flagged.		

MailReceiveStatus

Attribute Name	Туре	Description	P	ossible Values
success	Boolean	Returns whether the entire message could be read with all requested attributes (see ReadFlags).	tr ue	Message could be read with all requested attributes.
		A message will not be deleted if success is false - regardless of what has been specified with delete OnServer (see ReadFlags).	fa Ise	Message could not be read or some requested attributes are missing.
deletedOnS erver	Boolean	Returns whether the message has been deleted after retrieval.	tr ue	Message has been deleted.
		A message will not be deleted if success is false - regardless of what has been specified with delete OnServer (see ReadFlags).	fa Ise	Message has not been deleted.
markedAsR ead	Boolean	Returns whether the message has been marked as read after retrieval.	tr	Message has been marked as read.
		A message will not be marked as read if success is false - regardless of what has been specified with markAsRead (see ReadFlags).	fa Ise	Message has not been marked as read.
errorMessa ge	String	Returns further information on the issue if success is false.		
stacktrace	Array of String	Returns a stacktrace if the problem was caused by an unexpected Java exception.		
protocol	Array of String	Returns the steps performed while receiving the message as a protocol. This can give a hint in case of problems.		

SignatureVerificationResult

Attribute Name	Туре	Description		ossible Values
verified	Boolean	Returns whether the signature is valid or not.	tr ue	Message signature is valid.

			fa Ise	Message signature is invalid, or no verification has been requested (see verifySignatures in ReadFlags).
errorMessa ge	String	Returns details of a failed verification.		

MailHeader

Attribute Name	Туре	Description	Possible Values
name	String	Name of the header.	
value	String	Value of the header.	

Mail

Attribute Name	Туре	Description				
sender	String	Provide the email address of the sender. Sending Messages Some email servers (especially Exchange servers) require this to be the				
		address of the user specified in the connection. They will raise an imposter exception if this is not the case.				
toRecipien ts	Array of String	Provide an array of TO recipient's email addresses.				
ccRecipien ts	Array of String	Provide an array of CC recipient's email addresses.				
bccRecipie nts	Array of String	Provide an array of BCC recipient's email addresses.				
subject	String	Provide the email subject.				
attachments	Array of Atta chment	Provide an array of email attachments.				
plainTextC ontent	String	Provide a plain text message if applicable. Mime messages allow for multipart/alternative parts. If you specify both p lainTextContent and htmlTextContent, the JavaMail library will send both as a multipart/alternative when connecting via SMTP. EWS does not allow this. So, when sending through Exchange, the library will pick the HTML content if provided.				
htmlTextC ontent	String	Provide an HTML message if applicable. Mime messages allow for multipart/alternative parts. If you specify both p lainTextContent and htmlTextContent, the JavaMail library will send both as a multipart/alternative when connecting via SMTP. EWS does not allow this. So, when sending through Exchange, the library will pick the HTML content if provided.				