

G2 JMail Bridge

User's Guide

Version 2.3 Rev. 1



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Contents

	Preface	v
	About this Guide	v
	Audience	v
	Conventions	vi
	Related Documentation	vii
	Customer Support Services	x
Chapter 1	Introduction	1
	Introduction	1
	Software Requirements	2
	G2	2
	JavaLink	2
	Java Mail Specification	2
	Java/JDK	2
Chapter 2	Getting Started	3
	Introduction	3
	Installing G2 JMail	3
	Running G2 JMail	4
	Using G2 JMail	4
Chapter 3	API Reference	5
	Introduction	6
	JMail Interface Attributes	6
	Connectivity	8
	jmail-connect	9
	jmail-disconnect	10
	jmail-disconnect-without-kill	11
	Sending e-mail Messages	12
	jmail-send-mail	13
	jmail-send-mail	14

jmail-send-mail	15
jmail-send-mail-bundle	16
jmail-send-mime-mail	17
jmail-send-mime-mail	18
jmail-send-mime-mail	19
Receiving e-mail Messages	20
jmail-get-mail	21
jmail-get-mail	23
jmail-get-mail	25
Message and Error Handling	27
jmail-bridge-default-delivery-confirmation-handler	28
jmail-bridge-default-error-handler	29
jmail-ping	30

Index 31

Preface

Describes this guide and the conventions that it uses.

About this Guide	v
Audience	v
Conventions	vi
Related Documentation	vii
Customer Support Services	x



About this Guide

This guide explains how to use the G2 JMail bridge to send and receive e-mail via Java Mail (JMail). This capability enables G2 applications to send notification messages to e-mail accounts and cell phones or pagers enabled to receive e-mail messages to operators based on the current reasoning logic.

Audience

To use this manual, you must have at least a limited knowledge of G2 and a thorough understanding of JMail.

Conventions

This guide uses the following typographic conventions and conventions for defining system procedures.

Typographic

Convention Examples	Description
g2-window, g2-window-1, ws-top-level, sys-mod	User-defined and system-defined G2 class names, instance names, workspace names, and module names
history-keeping-spec, temperature	User-defined and system-defined G2 attribute names
true, 1.234, ok, "Burlington, MA"	G2 attribute values and values specified or viewed through dialogs
Main Menu > Start KB Workspace > New Object create subworkspace Start Procedure	G2 menu choices and button labels
conclude that the x of y ...	Text of G2 procedures, methods, functions, formulas, and expressions
<i>new-argument</i>	User-specified values in syntax descriptions
<u>text-string</u>	Return values of G2 procedures and methods in syntax descriptions
File Name, OK, Apply, Cancel, General, Edit Scroll Area	GUIDE and native dialog fields, button labels, tabs, and titles
File > Save Properties	GMS and native menu choices
workspace	Glossary terms

Convention Examples	Description
c:\Program Files\Gensym\ /usr/gensym/g2/kbs	Windows pathnames UNIX pathnames
spreadsh.kb	File names
g2 -kb top.kb	Operating system commands
public void main() gsi_start	Java, C and all other external code

Note Syntax conventions are fully described in the *G2 Reference Manual*.

Procedure Signatures

A procedure signature is a complete syntactic summary of a procedure or method. A procedure signature shows values supplied by the user in *italics*, and the value (if any) returned by the procedure underlined. Each value is followed by its type:

```
g2-clone-and-transfer-objects
(list: class item-list, to-workspace: class kb-workspace,
 delta-x: integer, delta-y: integer)
-> transferred-items: g2-list
```

Related Documentation

G2 Core Technology

- *G2 Bundle Release Notes*
- *Getting Started with G2 Tutorials*
- *G2 Reference Manual*
- *G2 Language Reference Card*
- *G2 Developer? Guide*
- *G2 System Procedures Reference Manual*

- *G2 System Procedures Reference Card*
- *G2 Class Reference Manual*
- *Telewindows User? Guide*
- *G2 Gateway Bridge Developer? Guide*

G2 Utilities

- *G2 ProTools User? Guide*
- *G2 Foundation Resources User? Guide*
- *G2 Menu System User? Guide*
- *G2 XL Spreadsheet User? Guide*
- *G2 Dynamic Displays User? Guide*
- *G2 Developer? Interface User? Guide*
- *G2 OnLine Documentation Developer? Guide*
- *G2 OnLine Documentation User? Guide*
- *G2 GUIDE User? Guide*
- *G2 GUIDE/UII Procedures Reference Manual*

G2 Developers' Utilities

- *Business Process Management System User? Guide*
- *Business Rules Management System User? Guide*
- *G2 Reporting Engine User? Guide*
- *G2 Web User? Guide*
- *G2 Event and Data Processing User? Guide*
- *G2 Run-Time Library User? Guide*
- *G2 Event Manager User? Guide*
- *G2 Dialog Utility User? Guide*
- *G2 Data Source Manager User? Guide*
- *G2 Data Point Manager User? Guide*
- *G2 Engineering Unit Conversion User? Guide*
- *G2 Error Handling Foundation User? Guide*
- *G2 Relation Browser User? Guide*

Bridges and External Systems

- *G2 ActiveXLink User? Guide*
- *G2 CORBALink User? Guide*
- *G2 Database Bridge User? Guide*
- *G2-ODBC Bridge Release Notes*
- *G2-Oracle Bridge Release Notes*
- *G2-Sybase Bridge Release Notes*
- *G2 JMail Bridge User? Guide*
- *G2 Java Socket Manager User? Guide*
- *G2 JMSLink User? Guide*
- *G2 OPCLink User? Guide*
- *G2 PI Bridge User? Guide*
- *G2-SNMP Bridge User? Guide*
- *G2 CORBALink User? Guide*
- *G2 WebLink User? Guide*

G2 JavaLink

- *G2 JavaLink User? Guide*
- *G2 DownloadInterfaces User? Guide*
- *G2 Bean Builder User? Guide*

G2 Diagnostic Assistant

- *GDA User? Guide*
- *GDA Reference Manual*
- *GDA API Reference*

Customer Support Services

You can obtain help with this or any Gensym product from Gensym Customer Support. Help is available online, by telephone and by email.

To obtain customer support online:

➔ Access Ignite Support Portal at <https://support.ignitetechnology.com>.

You will be asked to log in to an existing account or create a new account if necessary. Ignite Support Portal allows you to:

- Register your question with Customer Support by creating an Issue.
- Query, link to, and review existing issues.
- Share issues with other users in your group.
- Query for Bugs, Suggestions, and Resolutions.

To obtain customer support by telephone or email:

➔ Use the following numbers and addresses:

United States Toll-Free +1-855-453-8174

United States Toll +1-512-861-2859

Email support@ignitetechnology.com

Introduction

Describes the G2 JMail Bridge features and software requirements.

Introduction 1

Software Requirements 2



Introduction

The G2 JMail Bridge enables G2 applications to send and receive e-mail messages. This capability enables G2 applications to send notification messages to e-mail accounts and cell phones or pagers enabled to receive e-mail messages to operators based on the current reasoning logic.

Other applications may go beyond simple e-mail text messages and use e-mail messages as a way to integrate applications or processes. In this case the e-mail content may contain richer information formatted as XML data structures for example. The G2 SAX parser can then be used within G2 applications to extract the content of XML data structures received via e-mail.

The JMail Bridge leverages the Java Mail (JMail) APIs to integrate with e-mail servers on UNIX or Windows platforms. Therefore it supports any provider support by JMail specification and implementation. The JMail Bridge supports multi-part MIME plain text, HTML text, and file attachment formats. The bridge also provides message delivery and error handling.

G2 Java Mail Bridge Version runs on the following UNIX platforms: Solaris, HP-UX, AIX, and Linux. It does not run on HP Tru64 UNIX.

On UNIX platforms, you can start the G2 Java Mail Bridge by using this script:

```
bin/startjmailbridge
```

Software Requirements

G2

The G2 JMail knowledge base supplied with the bridge, `jmail.kb`, is compatible with G2 Version 7.0 Rev. 1 or later on any platform where G2 is supported.

JavaLink

The G2 JMail Bridge is compatible with JavaLink Version 1.2 Rev. 6 or later. Refer to JavaLink's readme file for both software requirements and systems requirements.

Java Mail Specification

The G2 JMail Bridge is based on the JavaMail specification Version 1.3 and JavaBeans Activation Framework (JAF) version 1.0.2.

Java/JDK

The G2 Java Mail Bridge requires J2SE Version 1.4 or later.

Getting Started

Describes how to install and run the G2 JMail Bridge.

Introduction	3
Installing G2 JMail	3
Running G2 JMail	4
Using G2 JMail	4



Introduction

This chapter describes how to install, run, and use the G2 JMail Bridge.

Installing G2 JMail

You install the G2 JMail bridge as part of the G2 Bundle or as part of any Gensym application bundle that contains the G2 Bundle.

Your G2 application must have access to a mail server. No other software is required.

Running G2 JMail

The default TCP port number for G2 JMail is 22080. You can use the default port or specify your own port by providing an argument to the batch file that starts the bridge.

To start the G2 JMail Bridge on the default port:

➔ Choose Start > Programs > G2 8.3r0 > Bridges > JMail Bridge.

The shortcut is similar for other application bundles except that G2 8.3r0 is replaced by the name of your installed bundle.

To start the G2 JMail Bridge on a different port:

➔ Connect to a command prompt and run the batch file that starts JMail and provide the port number as an argument.

For example:

```
\jmail\bin\StartJMailBridge.bat 22070
```

Using G2 JMail

To use the functionality provided by the G2 JMail Bridge in your G2 application, you need to:

- Create a `jmail-interface`. To create the interface, go to the `jmail-top-level`, workspace and click the Palette button. Click the interface to attach it to your mouse, then click on any workspace to place it.
- Configure the `jmail-interface`. Typically, you need to configure the `user-name`, `password`, `incoming-email-host`, and the `outgoing-email-host` and `outgoing-email-from-address`. The other properties are for advanced users. If you are unsure about some of these settings, see your network administrator. For a complete description of the attributes you must configure, see [JMail Interface Attributes](#).
- Call the `jmail-connect` API from within your application to connect to the bridge.
- Call the appropriate APIs to send or receive e-mail messages.

We recommend that you load and use the JMail example provided with the product. It provides examples of the APIs and is a good starting point for validating your installation setup.

To access the example:

➔ Choose Examples > JMail Tutorial from the Start menu of your bundle installation.

API Reference

Describes the G2 JMail Bridge Application Programmer's Interface (API).

Introduction **6**

JMail Interface Attributes **6**

Connectivity **8**

 jmail-connect **9**

 jmail-disconnect **10**

 jmail-disconnect-without-kill **11**

Sending e-mail Messages **12**

 jmail-send-mail **13**

 jmail-send-mail **14**

 jmail-send-mail **15**

 jmail-send-mail-bundle **16**

 jmail-send-mime-mail **17**

 jmail-send-mime-mail **18**

 jmail-send-mime-mail **19**

Receiving e-mail Messages **20**

 jmail-get-mail **21**

 jmail-get-mail **23**

 jmail-get-mail **25**

Message and Error Handling **27**

 jmail-bridge-default-delivery-confirmation-handler **28**

 jmail-bridge-default-error-handler **29**

 jmail-ping **30**



Introduction

This chapter describes the G2 JMail Bridge Application Programmer's Interface (API). The APIs are divided into these functional categories:

- Connectivity
- Sending e-mail messages
- Receiving e-mail messages
- Message and error handling

The `gmail.kb` contains the `gmail-interface` class definition and its associated API in the form of G2 methods and procedures for communicating with a mail provider.

JMail Interface Attributes

For several APIs to work, you must configure the following attributes of the `gmail-interface`:

Attribute	Description
<code>user-name</code>	A text that is the user name for logging into the mail server. This attribute is used for both getting and sending e-mail messages.
<code>password</code>	A text that is the password for logging into the mail server. This attribute is used for both getting and sending e-mail messages.
<code>incoming-email-host</code>	A text that is the host name to use for retrieving e-mail messages.
<code>incoming-email-host-port</code>	An integer that is the port on the host to use for retrieving e-mail messages. The default is 25.
<code>incoming-email-protocol</code>	A text that is the protocol to use for accessing the specified mail server. Typical this setting is "pop3".
<code>incoming-email-folder</code>	A text that is the e-mail folder to use when retrieving e-mail messages. When using the pop3 protocol, the incoming e-mail folder must be "inbox".
<code>incoming-email-delete-messages-on-host</code>	If true, deletes messages in the mail server as they are retrieved when calling <code>gmail-get-mail</code> . The default value is false.

Attribute	Description
outgoing-email-host	A text that is the host name to use when sending e-mail messages.
outgoing-email-host-port	An integer that is the port on the host to use for sending e-mail messages. The default is 25.
outgoing-email-from-address	A text that is the default e-mail address of the sender when sending e-mail message, using one of the APIs.
jmail-delivery-confirmation	A truth-value that specifies whether to receive email delivery confirmations for each email that is sent. The default value is <code>false</code> .
jmail-bridge-delivery-confirmation-procedure-callback	A symbol that specifies the name of a custom procedure to handle delivery confirmation. The default value is <code>jmail-bridge-default-delivery-confirmation-handler</code> . See jmail-bridge-default-delivery-confirmation-handler .
jmail-bridge-error-procedure-callback	A symbol that specifies the name of a custom procedure to handle any returned messages. The default value is <code>jmail-bridge-default-error-handler</code> . See jmail-bridge-default-error-handler .
download-attachment-directory-path	A text value for specifying the directory path where the bridge is running. The default value is "unspecified".

Connectivity

This section describes the API methods and procedures for programmatically connecting to and disconnecting from a mail server from a G2 application.

[jmail-connect](#)

[jmail-disconnect](#)

[jmail-disconnect-without-kill](#)

jmail-connect

Establishes a connection to the G2 JMail Bridge.

Synopsis

```
jmail-connect  
  (io: class jmail-interface, host: text, port: integer)
```

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object used for connecting to the JMail bridge.
<i>host</i>	The host name where the bridge process is running.
<i>port</i>	The port number the bridge is using to listen for G2 connections.

Description

This method of `jmail-interface` initiates a connection to a bridge listening to a specified TCP port. Once the connection from G2 to the bridge has been established, the JMail interface configuration is passed to the bridge that initiates the connection to the specified JMail host.

jmail-disconnect

Disconnects from the connected G2 JMail Bridge by terminating the bridge proces.

Synopsis

```
jmail-disconnect  
  (io: class jmail-interface)
```

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object used for connecting to the JMail bridge.

Description

This method of `jmail-interface` releases all JMail connection resources to the mail server before terminating the currently connected G2 JMail Bridge process. Thus, it terminates the connection from G2 to the bridge.

jmail-disconnect-without-kill

Disconnects from the connected G2 JMail Bridge.

Synopsis

```
jmail-disconnect-without-kill  
(io: class jmail-interface)
```

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object used for connecting to the JMail bridge.

Description

This method of `jmail-interface` releases all JMail connection resources to the mail server without terminating the currently connected G2 JMail Bridge process.

Sending e-mail Messages

This section describes the API methods and procedures used for sending e-mail messages.

[jmail-send-mail](#)

[jmail-send-mail](#)

[jmail-send-mail](#)

[jmail-send-mail-bundle](#)

[jmail-send-mime-mail](#)

[jmail-send-mime-mail](#)

[jmail-send-mime-mail](#)

jmail-send-mail

Sends a G2 text value to e-mail recipients.

Synopsis

```
jmail-send-mail
  (io: class jmail-interface, send-to: sequence, cc: sequence, subject: text,
   contents: text)
  -> status: text
```

Argument	Description
<i>io</i>	The jmail-interface object that is connected to a bridge process. This API uses attributes of this interface to send messages.
<i>send-to</i>	A sequence of e-mail addresses to which to send the e-mail. For example: <pre>sequence (user1@gensym.com, user2@gensym.com)</pre>
<i>cc</i>	A sequence of e-mail addresses to which to send copies of the e-mail.
<i>subject</i>	The subject line of the e-mail message.
<i>contents</i>	The contents of the e-mail message.

Description

This method sends an e-mail message in MIME text format. In the current implementation of the JMail bridge, the protocol used for sending e-mail messages is always SMTP.

This API uses the following attributes of the **jmail-interface** that is passed as the first argument: **outgoing-email-host**, **user-name**, **password**, and **outgoing-email-from-address**.

This API returns "OK" if the operation was successful; otherwise, it returns an error message.

jmail-send-mail

Sends a G2 text value to e-mail recipients.

Synopsis

jmail-send-mail

(*io*: class jmail-interface, *host*: text, *user-name*: text, *password*: text, *send-to*: sequence, *cc*: sequence, *from*: text, *subject*: text, *contents*: text)
-> *status*: text

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object that is connected to a bridge process. This API uses attributes of this interface to send messages.
<i>host</i>	The host name of the e-mail server.
<i>user-name</i>	The user name for accessing the e-mail server.
<i>password</i>	The password for accessing the e-mail server.
<i>send-to</i>	A sequence of e-mail addresses to which to send the e-mail.
<i>cc</i>	A sequence of e-mail addresses to which to send copies of the e-mail.
<i>from</i>	The e-mail address of the sender of the e-mail message.
<i>subject</i>	The subject line of the e-mail message.
<i>contents</i>	The contents of the e-mail message.

Description

This API is similar to the previous API except that it supports additional arguments, which the previous API obtained from the `jmail-interface`.

This API returns "OK" if the operation was successful; otherwise, it returns an error message.

jmail-send-mail

Sends a G2 text value to e-mail recipients.

Synopsis

jmail-send-mail

(*io*: class jmail-interface, *host*: text, *host-port*: integer, *user-name*: text, *password*: text, *send-to*: sequence, *cc*: sequence, *from*: text, *subject*: text, *contents*: text)
-> *status*: text

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object that is connected to a bridge process. This API uses attributes of this interface to send messages.
<i>host</i>	The host name of the e-mail server.
<i>host-port</i>	The e-mail server host port.
<i>user-name</i>	The user name for accessing the e-mail server.
<i>password</i>	The password for accessing the e-mail server.
<i>send-to</i>	A sequence of e-mail addresses to which to send the e-mail.
<i>cc</i>	A sequence of e-mail addresses to which to send copies of the e-mail.
<i>from</i>	The e-mail address of the sender of the e-mail message.
<i>subject</i>	The subject line of the e-mail message.
<i>contents</i>	The contents of the e-mail message.

Description

This API is similar to the previous API except that it supports additional arguments, which the previous API obtained from the `jmail-interface`.

This API returns "OK" if the operation was successful; otherwise, it returns an error message.

jmail-send-mail-bundle

Sends multiple e-mail messages.

Synopsis

```
jmail-send-mail-bundle  
  (io: class jmail-interface, emails: sequence)  
  -> status: text
```

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object that is connected to a bridge process. This API uses attributes of this interface to send messages.
<i>emails</i>	The list of e-mail messages to send as a sequence of structures. For a description of the syntax, see the Description section.

Description

This method sends multiple e-mail messages in MIME text format within one transaction. Sending multiple e-mail messages in a bundle can be more efficient when sending large numbers of e-mail messages, because it requires only one session authentication.

The syntax of the *emails* argument to the API is:

```
structure(send-to: send-to, cc: cc, subject: subject, contents: contents)
```

For a description of the arguments to each keyword, see [jmail-send-mail](#).

In the current implementation of the JMail bridge, the protocol used for sending e-mail messages is always SMTP.

This API uses the following attributes of the `jmail-interface` that is passed as the first argument: `outgoing-email-host`, `user-name`, `password`, and `outgoing-email-from-address`.

This API returns "OK" if the operation was successful; otherwise, it returns an error message.

jmail-send-mime-mail

Sends e-mail messages in various MIME formats.

Synopsis

```
jmail-send-mime-mail
  (io:class jmail-interface, send-to: sequence, cc: sequence, subject: text,
  contents: sequence )
```

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object used for connecting to the JMail bridge.
<i>send-to</i>	A sequence of e-mail addresses to which to send the e-mail.
<i>cc</i>	A sequence of e-mail addresses to which to send copies of the e-mail.
<i>subject</i>	The subject line of the e-mail message.
<i>contents</i>	A sequence of structures that provides the contents of each part of the e-mail message. The three options are plain text, HTML, or a file attachment.

Description

This methods sends MIME e-mail messages that contain multiple parts in the form of: text, HTML, and/or file attachments, including ZIP files.

The *contents* argument is a sequence of structures with the following syntax:

```
{sequence
  (structure
    (CONTENT: text,
    TYPE: text,
    FILEPATH: text)
  ...)
```

where:

- CONTENT is the text of each part of the email message.
- TYPE is one of these text values: "text/plain", "text/html", "attached/file".
- FILEPATH is a text string such as: "c:\my-dir\my-filename.txt".

jmail-send-mime-mail

Sends e-mail messages in various MIME formats.

Synopsis

jmail-send-mime-mail

(*io*: class jmail-interface, *host*: text, *user-name*: text, *password*: text, *send-to*: sequence, *cc*: sequence, *subject*: text, *from*: text, *contents*: sequence)

Argument	Description
<i>io</i>	The jmail-interface object used for connecting to the JMail bridge.
<i>host</i>	The host name of the e-mail server.
<i>user-name</i>	The user name for accessing the e-mail server.
<i>password</i>	The password for accessing the e-mail server.
<i>send-to</i>	A sequence of e-mail addresses to which to send the e-mail.
<i>cc</i>	A sequence of e-mail addresses to which to send copies of the e-mail.
<i>subject</i>	The subject line of the e-mail message.
<i>from</i>	The e-mail address of the sender of the e-mail message.
<i>contents</i>	A sequence of structures that provides the contents of each part of the e-mail message. The three options are plain text, HTML, or a file attachment.

Description

This methods sends MIME e-mail messages that contain multiple parts in the form of: text, HTML, and/or file attachments, including ZIP files. For a description of *contents*, see [jmail-send-mime-mail](#).

jmail-send-mime-mail

Sends e-mail messages in various MIME formats.

Synopsis

jmail-send-mime-mail

(*io*: class jmail-interface, *host*: text, *host-port*: integer, *user-name*: text, *password*: text, *send-to*: sequence, *cc*: sequence, *subject*: text, *from*: text, *contents*: sequence)

Argument	Description
<i>io</i>	The jmail-interface object used for connecting to the JMail bridge.
<i>host</i>	The host name of the e-mail server.
<i>host-port</i>	The e-mail server host port.
<i>user-name</i>	The user name for accessing the e-mail server.
<i>password</i>	The password for accessing the e-mail server.
<i>send-to</i>	A sequence of e-mail addresses to which to send the e-mail.
<i>cc</i>	A sequence of e-mail addresses to which to send copies of the e-mail.
<i>subject</i>	The subject line of the e-mail message.
<i>from</i>	The e-mail address of the sender of the e-mail message.
<i>contents</i>	A sequence of structures that provides the contents of each part of the e-mail message. The three options are plain text, HTML, or a file attachment.

Description

This methods sends MIME e-mail messages that contain multiple parts in the form of: text, HTML, and/or file attachments, including ZIP files. For a description of *contents*, see [jmail-send-mime-mail](#).

Receiving e-mail Messages

This section describes the API method used for receiving e-mail messages.

[jmail-get-mail](#)

[jmail-get-mail](#)

[jmail-get-mail](#)

jmail-get-mail

Queries and returns e-mail messages from the mail server with attachments.

Synopsis

```
jmail-get-mail
  (io: class jmail-interface, max-nb-of-messages: integer,
   max-message-length: integer )
  -> email-structures: sequence
```

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object that is connected to a bridge process.
<i>max-nb-of-messages</i>	The maximum number of messages to retrieve.
<i>max-message-length</i>	The maximum number of characters in a returned message. If a message is longer than this length, it is truncated.

Description

This method retrieves e-mail messages, based on the following attributes of the `jmail-interface`: `incoming-email-protocol`, `incoming-email-host`, `user-name`, `password`, `incoming-email-folder`, `incoming-email-delete-messages-on-host`.

The only protocol that has been tested is pop3. The incoming e-mail folder for the pop3 protocol can only be "inbox".

This method returns a sequence of e-mail structures, where each structure consists of the following keywords:

- `from` – A sequence of text values that are the e-mail addresses of the senders of the e-mail message.
- `sent-to` – A sequence of text values that are the e-mail addresses of the recipients of the e-mail message.
- `cc` – A sequence of text values that are the e-mail addresses of the recipients of copies of the e-mail message.
- `received-date` – A text that is the date and time at which the e-mail message was received.
- `sent-date` – A text that is the data and time at which the e-mail message was sent.
- `subject` – A text that is the subject line of the e-mail message.

- **contents** — A text that is the contents of the e-mail message.
- **recent-flag** — A truth-value that indicates whether the message is new to the folder, that is, it arrived since the last time the folder was opened.
- **seen-flag** — A truth-value that indicates that the message contents has been returned to the client in some form.
- **deleted-flag** — A truth-value that indicates whether the message has been marked for deletion.
- **content-truncated** — A truth-value that indicates whether the e-mail message has been truncated because it exceeded the maximum length.
- **content-is-plain-text** — A truth-value that indicates whether the e-mail message is plain text. For any message that is not of MIME-TYPE text/plain, the contents is an empty string and this flag is set to **false**.
- **attachment-filename** — A list of file names of file attachments.

The dates are formatted using the following format "YYYYMMDD HH24MMSS". Note that pop3 does not support the **received-date** or any of the flag keywords. The JMail bridge simply passes the information to G2. Be careful when using these results.

jmail-get-mail

Queries and returns e-mail messages from a mail server, specifying host, user name, password, and folder.

Synopsis

`jmail-get-mail`

(*io*: class `jmail-interface`, *protocol*: text, *host*: text, *user-name*: text, *password*: text, *folder*: text, *delete-messages*: truth-value, *max-nb-of-messages*: integer, *max-message-length*: integer)
 -> *email-structures*: sequence

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object that is connected to a bridge process. This API uses attributes of this interface to receive messages.
<i>protocol</i>	A text that is the protocol to use for retrieving e-mail messages, which is typically "pop3".
<i>host</i>	A text that is the host name of the e-mail server.
<i>user-name</i>	A text that is the user name for logging into the mail server.
<i>password</i>	A text that is the password for logging into the mail server.
<i>folder</i>	A text that is the e-mail folder to use when retrieving e-mail messages. When using the pop3 protocol, the incoming e-mail folder must be "inbox".
<i>delete-messages</i>	If <code>true</code> , deletes messages in the mail server as they are retrieved. The default value is <code>false</code> .
<i>max-nb-of-messages</i>	The maximum number of messages to retrieve.
<i>max-message-length</i>	The maximum number of characters in a returned message. If a message is longer than this length, it is truncated.

Description

This API is similar to the previous API except that it supports additional arguments, which the previous API obtained from the `jmail-interface`.

This method returns a sequence of e-mail structures, where each structure consists of the following keywords:

- `from` – A sequence of text values that are the e-mail addresses of the senders of the e-mail message.
- `sent-to` – A sequence of text values that are the e-mail addresses of the recipients of the e-mail message.
- `cc` – A sequence of text values that are the e-mail addresses of the recipients of copies of the e-mail message.
- `received-date` – A text that is the date and time at which the e-mail message was received.
- `sent-date` – A text that is the data and time at which the e-mail message was sent.
- `subject` – A text that is the subject line of the e-mail message.
- `contents` – A text that is the contents of the e-mail message.
- `recent-flag` – A truth-value that
- `seen-flag` – A truth-value that indicates whether the e-mail message has been read by all recipients.
- `deleted-flag` – A truth-value that indicates whether the e-mail message has been deleted.
- `content-truncated` – A truth-value that indicates whether the e-mail message has been truncated because it exceeded the maximum length.
- `content-is-plain-text` – A truth-value that indicates whether the e-mail message is plain text. For any message that is not of MIME-TYPE `text/plain`, the contents is an empty string and this flag is set to `false`.

The dates are formatted using the following format "YYYYMMDD HH24MMSS". Note that `pop3` does not support the `received-date` or any of the flag keywords. The JMail bridge simply passes the information to G2. Be careful when using these results.

jmail-get-mail

Queries and returns e-mail messages from a mail server, specifying host, user name, password, and folder.

Synopsis

jmail-get-mail

(*io*: class jmail-interface, *protocol*: text, *host*: text, *host-port*: integer, *user-name*: text, *password*: text, *folder*: text, *delete-messages*: truth-value, *max-nb-of-messages*: integer, *max-message-length*: integer)
 -> email-structures: sequence

Argument	Description
<i>io</i>	The jmail-interface object that is connected to a bridge process. This API uses attributes of this interface to receive messages.
<i>protocol</i>	A text that is the protocol to use for retrieving e-mail messages, which is typically "pop3".
<i>host</i>	A text that is the host name of the e-mail server.
<i>host-port</i>	The e-mail server host port.
<i>user-name</i>	A text that is the user name for logging into the mail server.
<i>password</i>	A text that is the password for logging into the mail server.
<i>folder</i>	A text that is the e-mail folder to use when retrieving e-mail messages. When using the pop3 protocol, the incoming e-mail folder must be "inbox".
<i>delete-messages</i>	If true , deletes messages in the mail server as they are retrieved. The default value is false .
<i>max-nb-of-messages</i>	The maximum number of messages to retrieve.
<i>max-message-length</i>	The maximum number of characters in a returned message. If a message is longer than this length, it is truncated.

Description

This API is similar to the previous API except that it supports additional arguments, which the previous API obtained from the `jmail-interface`.

This method returns a sequence of e-mail structures, where each structure consists of the following keywords:

- `from` – A sequence of text values that are the e-mail addresses of the senders of the e-mail message.
- `sent-to` – A sequence of text values that are the e-mail addresses of the recipients of the e-mail message.
- `cc` – A sequence of text values that are the e-mail addresses of the recipients of copies of the e-mail message.
- `received-date` – A text that is the date and time at which the e-mail message was received.
- `sent-date` – A text that is the data and time at which the e-mail message was sent.
- `subject` – A text that is the subject line of the e-mail message.
- `contents` – A text that is the contents of the e-mail message.
- `recent-flag` – A truth-value that
- `seen-flag` – A truth-value that indicates whether the e-mail message has been read by all recipients.
- `deleted-flag` – A truth-value that indicates whether the e-mail message has been deleted.
- `content-truncated` – A truth-value that indicates whether the e-mail message has been truncated because it exceeded the maximum length.
- `content-is-plain-text` – A truth-value that indicates whether the e-mail message is plain text. For any message that is not of MIME-TYPE `text/plain`, the contents is an empty string and this flag is set to `false`.

The dates are formatted using the following format "YYYYMMDD HH24MMSS". Note that `pop3` does not support the `received-date` or any of the flag keywords. The JMail bridge simply passes the information to G2. Be careful when using these results.

Message and Error Handling

[imap-bridge-default-delivery-confirmation-handler](#)

[imap-bridge-default-error-handler](#)

[imap-ping](#)

jmail-bridge-default-delivery-confirmation-handler

Provides the default handler for message delivery.

Synopsis

jmail-bridge-default-delivery-confirmation-handler
(*io*: class jmail-interface, *report*: text)

Argument	Description
<i>io</i>	The jmail-interface object that is connected to a bridge process.
<i>report</i>	A text message reporting that the message was sent.

Description

The default procedure for handling message confirmation when a message is sent.

jmail-bridge-default-error-handler

Provides the default handler for bridge errors.

Synopsis

jmail-bridge-default-error-handler
(*io*: class jmail-interface, *message*: text)

Argument	Description
<i>io</i>	The jmail-interface object that is connected to a bridge process.
<i>report</i>	A text message reporting on the bridge connection.

Description

The default procedure for handling error conditions from the bridge.

jmail-ping

Pings the bridge process to ensure that it is working properly.

Synopsis

```
jmail-ping  
  (io: class jmail-interface)  
  -> status: truth-value
```

Argument	Description
<i>io</i>	The <code>jmail-interface</code> object that is connected to a bridge process.

Return Value	Description
<i>status</i>	True if the bridge is connected; <code>false</code> otherwise.

Description

Use this procedure to ensure that the bridge is working properly.

@ A B C D E F G H I J K L M
 # N O P Q R S T U V W X Y Z

A

API reference

B

batch file

Cconnectivity
customer support services**E**e-mail messages
 receiving
 sending
error handling**G**G2 JavaLink software requirement
G2 JMail
 batch files
 getting started
 installing
 running
 software requirements
 using
G2 software requirement**I**

installing G2 JMail

JJava Mail (JMail) specification
jmail.kb
 G2 JMail knowledge base
 jmail-interface classjmail-bridge-default-delivery-confirmation-
 handler
jmail-bridge-default-error-handler
jmail-connect
jmail-disconnect
jmail-disconnect-without-kill
jmail-get-mail
 with attachments
 with log in
jmail-interface attributes
jmail-ping
jmail-send-mail
jmail-send-mail-bundle
jmail-send-mime-mail**M**

message delivery handling

Rreceiving e-mail messages
running G2 JMail**S**sending e-mail messages
software requirements
startjmailbridge
StartJMailBridge.bat file

