

# Gumbo Mail

Enhancement Summary

Licensed Program 2A55SM2 V2R1M0



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## **Edition**

### **Tenth Edition (February 2020)**

This edition applies to the licensed program Gumbo Mail (Program 2A55SM2), Version 2 Release 1 Modification 0.

This summary is available through option 1 of the GUMBOMAIL menu, in PDF format in directory /Gumbo/Proddata/2A55SM2/doc on your system, and on the web at [www.gumbo.com](http://www.gumbo.com)

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## Installation Instructions

Follow these instructions to install Gumbo Mail V2R1M0 on IBM i using physical media or a virtual image:

### Prepare

If you are upgrading a previous release (if Gumbo Mail is currently installed), perform these steps before installing the software:

1. Read the Enhancement Summary to determine if any changes affect your installation.
2. Insure that the product is not in use, as the installation process must clear the product's library. This will fail if objects such as menus are in use. If the installation fails, the previous release will be restored.

### Install

**Note:** If you are installing from a save file downloaded as an executable zip (.exe), use the save file specific "readme.htm" instructions included in the download.

1. Sign on to the system as the security officer (QSECOFR).
2. Verify that your machine is at IBM i V7R3M0 or later by running:

```
WRKLICINF
```

**Note:** If you are running a version of IBM i earlier than V7R3M0 you cannot install Gumbo Mail V2R1M0 on your machine. You must install an earlier version of Gumbo Mail or upgrade the operating system.

3. Verify that user domain objects are allowed in the libraries GUMBOMAIL and QSRV, by running:

```
WRKSYSVAL  SYSVAL(QALWUSRDMN)
```

Take option 5 to display the value. If the value is not \*ALL, use option 2 to add libraries GUMBOMAIL and QSRV to the list of libraries where user domain objects are allowed.

**Note:** QSRV is required to correctly process PTFs when they are loaded and applied.

4. Insure that IBM i will be able to verify the signatures that we apply to our product's objects by installing our Signing Certificate and Root CA Certificate using Digital Certificate Manager. Alternately, insure that signature verification will not prevent the restore operation by running:

```
WRKSYSVAL  SYSVAL(QVFYOBJRST)
```

Take option 5 to display the value. If the value is 3 or higher, use option 2 to temporarily change the value to 1.

5. Mount the physical media or virtual image on the appropriate device.
6. Submit the Restore Licensed Program (RSTLICPGM) command to batch:

```
RSTLICPGM LICPGM(2A55SM2) DEV(device-name) LNG(2924)
```

**Note:** Where "device-name" is the device where the media or image was mounted and is usually OPT01.

**Note:** During the restore operation, the system operator message queue may receive inquiry message CPA3DE4 "Directory not registered. (C G)". Unless you are using a directory naming convention similar to ours (that is the directory specified in the CPA3DE4's second level text is unrelated to our software), you can safely respond with a "G" to reestablish the relationship between the directory and the product. Typically the message will occur three or four times.

## Finish

When the RSTLICPGM command completes, library GUMBOMAIL and directory '/Gumbo/ProdData/2A55SM2' contain the new software. To complete the installation:

1. If you have an Authorization or Instructions letter with your permanent authorization code, enter the code now.

**Note:** Gumbo Mail automatically grants 30 days usage for new installs or 90 days usage for release upgrades.

2. Retrieve the current cumulative Gumbo Mail PTF package by running the following command:

```
GUMBOMAIL/RTVGSIPTF
```

**Note:** **GUMBO** recommends downloading the current cumulative PTF package after installing the software.

3. Visit our PTF page at [www.gumbo.com](http://www.gumbo.com) and check the **Additional IBM i PTF Information** section for IBM PTFs you may need to install.
4. You can access the Gumbo Mail menu by running the following command:

```
GO MENU(GUMBOMAIL/GUMBOMAIL)
```

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## Enhancements For Gumbo Mail V2R1M0

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### What's In This Section

This section provides information on Gumbo Mail enhancements for release V2R1M0, notes any customer code implications by marking them with a **COMPATIBILITY WARNING**, and describes where to find more information when applicable.

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### Objects (OBJ) Enhanced

Gumbo Mail's Objects (OBJ) parameter has been enhanced to include a Content-ID element. With the addition "multipart/related" groups can be generated.

Objects can be designated as part of a group of alternatives and/or can be assigned a Content-ID to designate it as a member of a group of related objects which allows reference between objects. There is interplay between alternative group and related group. The following rules are applied:

- The MSG() parameter, if specified, has implied Content-ID of \*NONE and an implied alternate group of \*NONE.
- Objects in each alternate group number are considered in turn with alternate group \*NONE treated as group 0.
- If a group contains more than one object and at least one object has a Content-ID specified, a related group is formed.
- The first object within the alternate group that does not have a Content-ID specified is considered the root of and included in the related group. All other objects without a Content-ID are not included in the related group.
- If all objects in an alternate group have a Content-ID then the first object is considered the root of the related group.

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### Retrieve Gumbo PTF (RTVGSIPTF) Command Updated

#### COMPATIBILITY WARNING

Previously, the Retrieve Gumbo PTF (RTVGSIPTF) command supported downloading PTFs using the FTP protocol. With this release FTP support is removed.

HTTP is now the only protocol for PTF retrieval. If your network restricts HTTP access or if a proxy is required for HTTP access the RTVGSIPTF command will fail. If a proxy is required you must fill in the PROXY() parameter.

The protocol PROTOCOL() parameter remains to provide backward compatibility with existing customer programs. If PROTOCOL(\*FTP) is specified, a message is issued, and HTTP is used to communicate with the PTF server.

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### New Menu Option

Option 67. Work with Source Code for Tools and Examples added to Gumbo Mail's main menu GUMBOMAIL/GUMBOMAIL. The option accesses source code found in file S2SOURCE which provides useful functions and demonstrates coding techniques used with Gumbo Mail.

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## Integrated File System Changes

- New function to open (create) a file based on CCSID instead of CPGID added. This facilitates control over the created file's CCSID attribute.
- Glob (wildcard) processing was being too picky, only finding stream files in pure directories. Processing now correctly handles all Integrated File System objects including documents and folders.
- Potential memory leak under error conditions removed from glob processing.

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## Program Distribution Changes

- Added updated signature verification certificates to product.
- Added field fix manager processing to delete resolved font resource users spaces, if requested by a PTF, in order to force regeneration.

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## Send Mail Changes

- Uninitialized variable caused missing attachment when \*PAGDTA spooled file splitting was used. The error is corrected.
- RFC-2231 implemented allowing non-ascii characters to appear in MIME field parameter values.
- RFC-2387 implemented. The Include object (INCOBJ) parameter has been enhanced to include a Content-ID element. With the addition "multipart/related" groups can be generated.
- Now uses IfsOpenCcsid().