



TRAFICOM

**Drive4i**

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# Introduction to the user's guide

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## Version and release

This guide contains information compatible with the **V2R0M0** version.

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## Related publications

[1]

[http://www.jetlab.com/downloads/r400/R400-V4R0M0-Installation\\_Configuration-ENG.pdf](http://www.jetlab.com/downloads/r400/R400-V4R0M0-Installation_Configuration-ENG.pdf)

It describes the procedures of installation and setup of the runtime **R400** on which the product **Drive4i** is based.

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## Conventions

List of the conventions used:

The name **Drive4i** and its components are written in red, Times New Roman and bold-Italic.

Source codes and I System commands are written in Courier New.

“PC” stands for Windows Personal Computer.

“AS400 file” specifies the path name of the object or a pattern to match the name of the object to be copied. For more information on specifying path names, refer to “Object naming rules” in the CL topic collection in the Programming category in the i5/OS Information Center at <http://www.ibm.com/systems/i/infocenter/>.

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## Where to find updated information

At [www.jetlab.com](http://www.jetlab.com) you can find the latest version of the reference book and software updates.

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## Your comments

Your comments are welcomed! Send them to [developer@jetlab.com](mailto:developer@jetlab.com)

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## General description

This tool allows you to transfer and receive files from IBM i (AS400) to Google Drive.

Drive4i exploits all the features offered by Google Drive and allows RPG programmers to write IBM i (AS400) programs integrated with Drive.

Files could be shared using Drive properties, or RPG application could create documents and share them in the Drive universe.

For any problem and technical support requests, send an email to [support@jetlab.com](mailto:support@jetlab.com)

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# Requirements

These are the requirements needed to install the product:

- The product R400 V4R0M0 must be installed on IBM i.
- Internet connection.  
To verify, run the following command from AS400:  

```
ping 'www.google.it'
```

  
AS400 outgoing ports 80 and 443 must be open.
- The user that is going to use the product must have a Google account

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# Getting started

This chapter shows the sequence of the operations that must be followed in order to install, configure and use the product:

\_\_\_ **Step 1:**

**Chapter “Installation”**

The product is installed and configured.

\_\_\_ **Step 2:**

**Chapter “Create a Google Account description”**

The Google account that will use the *Drive4i* application is registered.

\_\_\_ **Step 3:**

**Chapter “Authorize the access to the Drive4i application”**

The user registered in the previous step must accept the *Drive4i* application.

\_\_\_ **Step 4:**

**Chapter “Check the installation”**

\_\_\_ **Step 5:**

**Chapter “Driver4i commands”**

From this moment on it is possible to use all the *Drive4i* product's commands to interact with Google Drive.

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# Installation

Here is the procedure to install *Drive4i*:

— **Step 1:**

Connect to IBM I with a user \*SECOFR

— **Step 2:**

Verify that the runtime *R400* is already installed on IBM i

If the library JTJT040000 already exists on IBM i, it means that the runtime used by *Drive4i* is already installed.

In this case run the following command

```
ADDLIBLE LIB(JTJT040000)
```

and go on to step 4, otherwise go to the following step.

— **Step 3:**

**Install runtime R400**

Download the file

<http://www.jetlab.com/downloads/r400/JTJT040000.zip>

The content of the file JTJT040000.zip is a save file called JTJT040000.SAVF.

The file must be uploaded on IBM i as a save file.

Reactivate the library JTJT040000 from the save file previously uploaded

```
RSTLIB SAVLIB(JTJT040000) DEV(*SAVF) SAVF(QGPL/JTJT040000)
```

(the command assumes that the save file has been uploaded into the library QGPL)

Run the setup command to complete the operation

```
ADDLIBLE LIB(JTJT040000)
```

```
CONFIG LANGID(ITA) IP(<IP>) PORT(10000)
```

where

LANGID is the primary language of the runtime,

IP is the IBM i system IP address,

PORT is the number of a free outgoing port. 10000 is the number of the port that is usually available.

— **Step 4:**

**Install Drive4i**

Download the file

<http://www.jetlab.com/downloads/drive4i/JTGA020000.zip>

The content of the JTGA020000.zip is a save file called JTGA020000.SAVF.

The file has to be uploaded on IBM i as a save file.

Install the product *Drive4i* by running the following commands:

```
RSTLIB SAVLIB(JTGA020000) DEV(*SAVF) SAVF(QGPL/JTGA020000)
```

(the command assumes that the save file JTGA020000 has been uploaded in the library QGPL)

Set up the product *Drive4i* by running the following commands::

```
ADDLIB JTJT040000
```

```
ADDLIB JTGA020000
```

```
CONFIG LANGID(ITA) STRD4I(*YES)
```

where

LANGID is the primary language to be installed,

STRD4I se \*YES the command STRD4I is copied in QGPL

Run the following command to open the *Drive4i* access menu

```
STRD4I
```

---

# Create a Google Account description

In the following material we refer to the same names used in the product installation procedure.

- JTGA020000 is the product library

## \_\_\_ Step 1:

### Registration of an email in Google Drive

The product integrates with Google Drive.

A Drive account must exist.

If you do not have a Google Apps for Business subscription, you can register at <https://accounts.google.com/>.

It is possible to use a non-gmail email to create a Drive account.

## \_\_\_ Step 2:

### Create a Google Account description

After product installation, a Google account description must be created.

Here the steps to follow in order to create a Google Account description:

Run this command substituting <Google Email> with the Google Account email.

```
ADDLIBLE JTGA020000
CRTGACD GACCOUNT('<Google Email>')
```

Otherwise reach the command through this menu:

```
GO G4IMENU > option 1 > option 3 > option 1
```

---

# Accept Drive4i application access

In the following material we refer to the same names used in the product installation procedure.

- JTGA020000 is the product library

In order to use the Drive4i commands, a Google account has to accept to use the *Drive4i* application.

In order to accept this application follow these steps:

## Step 1:

### Authorize the \*DRIVE4I application

To authorize the \*DRIVE4I application, run the following command, substituting <Google Email> with the email previously provided to the command CRTGACD (See chapter "Creation of a Google Account description"):

```
ADDLIBLE JTGA020000
ACCD4IAPPA GACCOUNT('\<Google Email>')
```

Otherwise it is possible to reach the command through the menu:

```
GO G4IMENU > option 1 > option 4 > option 1
```

The following screen will be shown:

Copy the following URL in your Browser.

Be careful with the Copy and Paste operation because the copy function adds an end of line character after each 5250 field

Remove this characters before calling the URL

```
https://accounts.google.com/o/oauth2/auth?access_type=offline&approval_prompt=force&client_id=436685988213.apps.googleusercontent.com&redirect_uri=urn:ietf:wg:oauth:2.0:oob&response_type=code&scope=https://www.googleapis.com/auth/drive.file%20https://www.googleapis.com/auth/drive%20https://www.googleapis.com/auth/userinfo.email%20https://www.googleapis.com/auth/userinfo.profile
```

Accepting the Drive4i application you are given a code. Copy it in the following field:

Enter=Confirm

The URL shown in the screen must be consulted.

**WARNING!**

Be careful with the Copy and Paste operation because the copy function adds an end of line character after each 5250 field.

Put the copied text in a PC text editor (such as notepad) and remove this characters before calling the URL.

Consulting the URL, the following web page is shown:



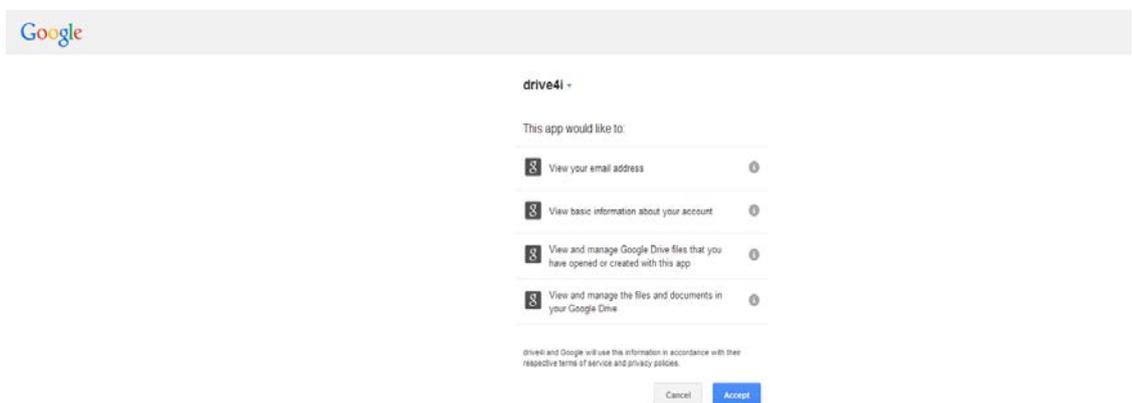
One account. All of Google.

Sign in with your Google Account

The sign-in form displays a blue profile icon with the initials 'rs' and the email address 'rs7591@gmail.com'. Below this is a text input field labeled 'Password' and a blue 'Sign in' button. A link for 'Need help?' is located below the button.

[Sign in with a different account](#)

Signing in with the email provided to the ACCD4IAPPA command, you will be asked to accept the Google4i \*DRIVE4I (Alias drive4i) application.



Accepting the application, the screen will show a code that you have to copy and paste in the previous 5250 screen:



Please copy this code, switch to your application and paste it there:

`4/Cj4N-ZaZCHIDdADaSoGa86B-nTc-.8nNwj8o4zllVC`

Copy the code in the 5250 screen:

Copy the following URL in your Browser.

Be careful with the Copy and Paste operation because the copy function adds an end of line character after each 5250 field

Remove this characters before calling the URL

`https://accounts.google.com/o/oauth2/auth?access_type=offline&approval_prompt=force&client_id=436685988213.apps.googleusercontent.com&redirect_uri=urn:ietf:wg:oauth:2.0:oob&response_type=code&scope=https://www.googleapis.com/auth/drive.file%20https://www.googleapis.com/auth/drive%20https://www.googleapis.com/auth/userinfo.email%20https://www.googleapis.com/auth/userinfo.profile`

Accepting the Drive4i application you are given a code. Copy it in the following field:

`4/Cj4N-ZaZCHIDdADaSoGa86B-nTc-.8nNwj8o4zllV0l05ti8ZT3bB9LgCjQI`

---

## Set environment variable

Drive4i is written in Java. In order to read files, some Java toolbox features are used; for this reason Java programs must be connected to the AS400 environment using a user profile and a password which will be saved encrypted on AS400. You will be able to change them at any moment.

The IP address of your AS400 must be specified too.

Run this command:

```
CHGD4IVAL GVAR(*USER) GVAL(as400 user profile)
CHGD4IVAL GVAR(*HOST) GVAL('xx.xxx.xx.xxxx')
CHGD4IVAL GVAR(*PASSWORD) GVAL(password)
```

---

# Check the installation

Run this command to activate the subsystem. For more details see the chapter “subsystem activation”.

```
addlibl JTGA020000
STRD4I > option 2 > option 1
```

Run the following commands using the user registered in the previous steps. You will find the files needed for the test in “/jetlab/ProdData/JTGA020000/\*”

## Copy Word document without conversion

```
CPYTOGDR GACCOUNT('xxxxxx@yyyy.com')
OBJ('/jetlab/ProdData/JTGA020000/sample.docx') GDRFLR('/g4idemo')
CRTGDRFLR(*YES) RTYNBR(2) CONV(*NO)
```

## Copy Word document and convert it

```
CPYTOGDR GACCOUNT('xxxxxx@yyyy.com')
OBJ('/jetlab/ProdData/JTGA020000/sample.docx') GDRFLR('/g4idemo')
CRTGDRFLR(*YES) RTYNBR(2) CONV(*YES)
```

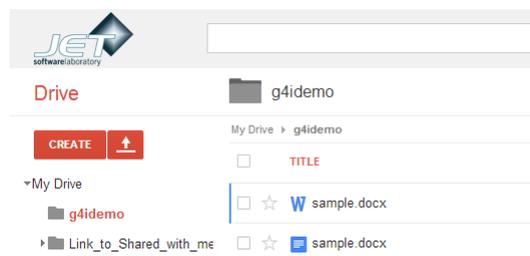
## Convert a pdf document and recognize it with OCR

```
CPYTOGDR GACCOUNT('xxxxxx@yyyy.com')
OBJ('/jetlab/ProdData/JTGA020000/sample.pdf') GDRFLR('/g4idemo') RTYNBR(2)
CONV(*YES) OCR(*YES) OCRLNG('it')
```

## Control transmissions

```
WRKD4ITRX
```

Sign in to Google Drive and check the file.



---

## Drive4i commands

In the following material we refer to the same names used in the product installation procedure.

- JTGA020000 is the product library

This chapter shows all the commands you need in order to send, receive and share files in Google Drive.

---

## Create Google Account Description (CRTGACD)

Creates a new Google account description.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 1 > option 3 > option 1
```

### Google Email (GACCOUNT)

Specifies a Google email or an email registered in Google Drive.

It is a required parameter.

***character-value***

Insert a Google email or an email registered in Google Drive.

---

## Delete Google Account Description (DLTGACD)

Deletes a Google account description.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 1 > option 3 > option 2
```

### Google Email (GACCOUNT)

Specifies a Google email or an email registered in Google Drive registered with the CRTGACD command.

It is a required parameter.

***character-value***

Specify the email previously registered with the CRTGACD command.

---

## Accept Drive4i App. Access (ACCD4IAPPA)

Authorizes product applications.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 1 > option 4 > option 1
```

### Google Email (GACCOUNT)

Specifies a Google email or a registered Google email that has to accept the Drive4i application.

It is a required parameter.

#### *character-value*

Insert a Google email or an email registered in Google Drive that has to accept the Drive4i application.

---

## Revoke Drive4i App. Access (RVKD4IAPPA)

Revokes the authorization for the use of product application.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 1 > option 4 > option 2
```

### Google Email (GACCOUNT)

Specifies the name of the Google account to which revoke the use of a Google application.

It is a required parameter.

#### *character-value*

Specify the name of an existing Google email or an email registered in Google Drive to which you want to revoke the use of the application.

---

## Copy object to Google Drive (CPYTOGDR)

Copies an AS400 file in Google Drive. It is possible to reach the command through the menu:

```
GO G4IMENU > option 2 > option 2
```

### Google Email (GACCOUNT)

Name of the Google account.

It is a required parameter.

#### ***path-name***

Specify a name of an existing Google email or a registered email in Google Drive.

### From object (OBJ)

Specifies the AS400 file that has to be transferred in Drive.

It is a required parameter.

#### ***path-name***

Specify an existing AS400 file.

### Path or Google Drive directory Id (GDRFLR)

Specifies the Drive folder in which you want to store the file.

This is a required parameter.

#### ***path-name***

Specify a Drive folder. You can furnish a complete path or the folder identification. In this case the CRTGDRFLR(\*YES) parameter is ignored.

### Document title (TITLE)

Is the name to be assigned to the document in the Drive folder.

#### ***\*FILE***

Assign the file name provided in the OBJ parameter to the Drive document.

#### ***path-name***

Specify the name you want to assign to the file, after it is stored in the folder identified by GDRFLR.

### Description (DESCR)

Is the description to be assigned to the document.

#### ***character-value***

Specify the document description.

### **File Type (GDRTYPE)**

Document type

**\*XLS \*XLSX \*XML \*ODS \*CSV \*TMPL \*PDF \*PHP \*JPG \*PNG \*GIF \*BMP  
\*TXT \*DOC \*JS \*SWF \*MP3 \*ZIP \*RAR \*TAR \*ARJ \*CAB \*HTM \*STREAM  
\*FOLDER**

File type

**character-value**

Not supported value.

**\*DEFAULT**

The document type is set depending on the file specified by the OBJ parameter.

### **Create parent directories (CRTGDRFLR)**

Specifies whether to create the Drive folder indicated in the GDRFLR parameter.

**\*YES**

Creates the folder if it doesn't exist.

**\*NO**

Does not create the folder.

### **Replace object (REPLACE)**

Use this option to manage the substitution of an existing document.

**\*YES**

Replaces the Drive document if it exists.

**\*NO**

Does not replace the Drive document. It gives error if the document exists.

### **Job parameters (PJOB)**

Defines which parameters have to be furnish to the job.

**\*BASIC**

provides default parameters to the job.

**\*EXTENDED**

provides additional parameters to the job.

### **Start batch (BATCH)**

Specifies the way in which the copy file command is activated.

**\*YES**

The copy of the file to Drive takes place in BATCH.

**\*NO**

The copy of the file to Drive takes place interactively.

### **Job queue (JOBQ)**

If the parameter BATCH is \*YES, specifies the job queue where you want to submit the command.

**\*DEFAULT**

Uses the default job queue.

***character-value***

Specify a valid job queue.

### **Log (LOG)**

Specifies whether the command has to leave tracks in logs.

**\*YES**

Tracks job steps in logs.

**\*NO**

Does not track the command execution.

### **Num. of retries (RTYNBR)**

Specifies the number of attempts that the command has to try in case of error.

**5**

5 is the default number of attempts.

***unsigned-integer***

Specify a valid number of attempts.

### **User exit program (USEREXIT)**

Is a program name that the command activates at the end of the transmission. (Option not active in this version)

Qualifier 1: User exit program

**\*NONE**

Does not call the user program.

***name***

Specify an existing program name.

Qualifier 2: Library

**\*CURRENT**

Specifies the current library.

***name***

Furnish the name of the library in which the user program is located.

### **Store and Forward (STOFRW)**

Specifies whether a copy of the AS400 file has to be done before the transfer. (Option not active in this version)

**\*YES**

Copies the AS400 file in a temporary directory and then transfers it.

**\*NO**

Sends the AS400 file in Drive without copying it first.

### **Compress (CMPOPT)**

Compresses the file. (Option not active in this version)

**\*YES**

Compresses the file before it is sent.

**\*NO**

Does not compress the file before it is sent.

### **Data encryption policy (ENCRPOLICY)**

Encrypts the file before sending it. (Option not active in this version)

**\*NONE**

Does not encrypt the file that has to be transferred.

**\*DEFAULT**

Applies the default encryption of the file that has to be transferred.

***character-value***

Specify the type of encryption to be applied to the file that has to be transferred.

### **Block length (DIMBLK)**

Specifies the transmission block size.

**0**

A default size is used.

***unsigned-integer***

Specify a customized block size.

### **Optional query parameters (OPTPARM)**

Specifies the optional parameter level that has to be provided to the document.

**\*BASIC**

provides the default optional parameters.

**\*EXTENDED**

provides the extended optional parameters.

**File conversion (CONV)**

Specifies whether to apply a conversion to the file that has to be transferred.

**\*YES**

Converts the document that has to be transferred in a Drive document.

**\*NO**

Will not convert a document uploaded to drive into Google doc formats.

**OCR (OCR)**

Specifies whether to apply an OCR identification.

**\*YES**

Analyzes the image or the PDF document in order to recover the contained text.

**\*NO**

Does not apply an identification test on the document.

**OCR ISO 639-1 language (OCRLNG)**

Specifies the language to be applied to the OCR identification.

***character-value***

Specify a language.

**Pinned (PINNED)**

Pins the document.

**\*YES**

Pins the document.

**\*NO**

Does not pin the document.

**'Timed text' language (TTXTLNG)**

'Timed text' language.

***character-value***

'Timed text' language.

**'Timed text track' name (TTXTTRCKNM)**

'Time text track' name.

***character-value***

'Time text track' name.

### **Content as indexable text (CNTIDX)**

Specifies whether Google has to index the document content.

**\*YES**

The document content is indexed by Google.

**\*NO**

The document content is not indexed by Google.

### **Optional properties (OPTPROP)**

Defines which optional properties have to be assigned to the document.

**\*BASIC**

Applies the fundamental optional properties.

**\*EXTENDED**

Applies the extended optional properties.

### **Indexable text (IDXTXT)**

Specifies the text to be used in order to index the document.

***character-value***

Specify a valid text.

### **Hidden (HIDDEN)**

Specifies the document HIDDEN attribute.

**\*YES**

Hides the document.

**\*NO**

Does not hide the document.

### **Restricted (RESTR)**

Specifies whether to protect the document from downloading.

**\*YES**

Protects the document from downloading.

**\*NO**

Does not protect the document from downloading.

### **Starred (STARRED)**

Specifies whether to star the document.

**\*YES**

Stars the document.

**\*NO**

Does not star the document.

**Trashed (TRASHED)**

Specifies whether to trash the document.

**\*YES**

Trashes the document.

**\*NO**

Does not trash the document.

**Viewed (VIEWED)**

Specifies whether to mark the document as viewed.

**\*YES**

Marks the document as viewed.

**\*NO**

Does not mark the document as viewed.

**Last view date (LASTDTVW)**

Specifies the last view date, in case the VIEWED parameter was set to \*YES.

***date***

Specify a valid date.

**Last viewed time (LASTTMVW)**

Specifies the last viewed time.

***time***

Specify a valid time.

**Last modified date (LASTDTCHG)**

Specifies the last date in which the document was changed.

***date***

Specify a valid date.

**Last modified time (LASTTMCHG)**

Specifies the last time in which the document was changed.

***time***

Specify a valid time.

**Application attributes files (CUSTOMATTR)**

Specifies a file which contains a list of additional attributes.

***path-name***

Specify a file which contains a list of attributes that have to be added to the document.

---

## Copy object from Google Drive (CPYFRMGDR)

Copies a document from Google Drive to AS400.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 2 > option 1
```

### Google Email (GACCOUNT)

Google account name.

It is a required parameter.

#### ***path-name***

Specify an existing Google email name or a registered email in Google Drive.

### Path or Google Drive doc. Id (GDRDOC)

Specifies the document that you want to receive from Google Drive.

It is a required parameter.

#### ***path-name***

Specify the file path that you want to receive or the identification assigned to the document by Google Drive.

### From object (OBJ)

Specifies the AS400 file.

This is a required parameter.

#### ***path-name***

Specify an AS400 file.

### GDoc conversion (GDRTYPE)

If the document you want to receive is a Google document, specify the way in which you want the document to be converted.

#### ***\*DEFAULT***

Applies a default conversion depending on the type of Google document.

#### ***\*DOCUMENTS\_HTML'***

Converts the Google document into an HTML page.

#### ***\*DOCUMENTS\_PLAIN\_TEXT'***

Converts the Google document into a text file.

#### ***\*DOCUMENTS\_RICH\_TEXT'***

Converts the Google document into a text file.

***\*DOCUMENTS\_OPEN\_OFFICE'***

Converts the Google document into an Open Office document.

***\*DOCUMENTS\_PDF'***

Converts the Google document into a PDF file.

***\*DOCUMENTS\_MS\_WORD'***

Converts the Google document into a Word document.

***\*SPREADSHEETS\_OPEN\_OFFICE'***

Converts the Google document into an Open Office spreadsheet.

***\*SPREADSHEETS\_MS\_EXCEL'***

Converts the Google document into an Excel spreadsheet.

***\*SPREADSHEETS\_PDF'***

Converts the Google document into a PDF document.

***\*DRAWING\_JPEG'***

Converts the Google document into a JPEG image.

***\*DRAWING\_PNG'***

Converts the Google document into a PNG image.

***\*DRAWING\_SVG'***

Converts the Google document into a SVG file.

***\*DRAWING\_PDF'***

Converts the Google document into a PDF file.

***\*PRESENTATIONS\_OPEN\_OFFICE\_PDF'***

Converts the Google document into an Open Office presentation.

***\*PRESENTATIONS\_MS\_POWERPOINT'***

Converts the Google document into a PowerPoint presentation.

***character-value***

Customized conversion. (parameter not supported in this version)

**Create parent directories (CRTDIR)**

Specifies whether parent directories of objects being restored should be created if they do not exist. For example, if object '/a/b/c/file1' is being restored then directories '/a', '/a/b' and '/a/b/c' must exist. This parameter only applies to "root" (/), QOpenSys and user-defined file systems, and will be ignored for all other file systems.

***\*YES***

Creates the AS400 directory if it doesn't exist.

***\*NO***

Does not create the AS400 directory.

**Replace file (OPTION)**

Specifies whether the file has to be replaced.

**\*YES**

Replaces the file if it exists.

**\*NO**

Gives error if the file exists.

**Job parameters (PJOB)**

Defines which parameters have to be provided to the job.

**\*BASIC**

The default parameters are assigned to the job.

**\*EXTENDED**

Additional parameters are assigned to the job.

**Start Batch (BATCH)**

Specifies the way in which the copy file command is activated.

**\*YES**

The copy of the file from Drive takes place in BATCH.

**\*NO**

The copy of the file from Drive takes place interactively.

**Job queue (JOBQ)**

If the parameter BATCH is \*YES, specifies the job queue where you want to submit the command.

**\*DEFAULT**

Uses the default job queue.

***character-value***

Specify a valid job queue.

**Log (LOG)**

Specifies whether the command has to leave tracks in logs.

**\*YES**

Tracks job steps in logs.

**\*NO**

Does not track the command execution.

**Num. of retries (RTYNBR)**

Specifies the number of attempts that the command has to try in case of error.

**5**

5 is the default number of attempts.

***unsigned-integer***

Specify a valid number of attempts.

### **User exit program (USEREXIT)**

Is a program name that the command activates at the end of the transmission. (Option not active in this version)

Qualifier 1: User exit program

**\*NONE**

Does not call the user program.

***name***

Furnish the name of the library in which the user program is located.

Qualifier 2: Library

**\*CURRENT**

Specifies the current library.

***name***

Furnish the name of the library in which the user program is located.

### **Store and Forward (STOFRW)**

Specifies whether a copy of the AS400 file has to be done before the transfer. (Option not active in this version)

**\*YES**

Copies the AS400 file in a temporary directory and then transfers it.

**\*NO**

Sends the AS400 file to Drive without coping it. (Option not active in this version)

### **Compress (CMPOPT)**

Compresses the file. (Option not active in this version)

**\*YES**

Compresses the file before sending it.

**\*NO**

Does not compress the file before sending it.

### **Data encryption policy (ENCRPOLICY)**

encrypts the file before sending it (Option not active in this version)

**\*NONE**

Does not apply a encrypty on the file that has to be transferred.

***\*DEFAULT***

Applies the default encryption to the file that has to be transferred.

***character-value***

Specify the type of encryption to apply on the file that has to be transferred

**Block length (DIMBLK)**

Specifies the transmission block size.

***0***

A default size is used.

***unsigned-integer***

Specify a customized block size.

**Optional query parameters (OPTPARM)**

Specifies the optional parameters level that has to be provided to the document.

***\*BASIC***

Provides the default optional parameters.

***\*EXTENDED***

Provides the extended optional parameters.

**Update last viewed date (UPDVWDT)**

Specifies whether to update the consultation date.

***\*YES***

Updates the date.

***\*NO***

Does not update the date.

**Application attributes files (CUSTOMATTR)**

Specifies where to register the user attributes.

***path-name***

Specify an AS400 file name in which to register all the document's user attributes.

---

# Update Google Drive Object (CHGGDROBJ)

Updates a Drive document. It is possible to reach the command through the menu:

GO G4IMENU > option 2 > option 3

## Google Email (GACCOUNT)

Google Account name.

It is a required parameter.

### ***path-name***

Specify a name of an existing Google email or an email registered in Google Drive.

## Path or Id Doc. Google Drive (GDRDOC)

Specifies the document you want to update.

It is a required parameter.

### ***path-name***

Specify the path of the file that has to be received or the identification assigned to the document by Google Drive.

## Object (OBJ)

Specifies an AS400 file to be sent in replacement.

### ***\*NONE***

A new edition of the Drive document will not be created.

### ***character-value***

Specify the AS400 file whose contents will be the new edition of the Drive document.

## Document title (TITLE)

Indicates the new name of the Drive document.

### ***\*SAME***

The name of the Drive document has not been changed.

### ***character-value***

Specify the name of the new Drive document.

## Description (DESCR)

Specifies the new description of the Drive document.

### ***\*SAME***

The description has not been changed.

### ***character-value***

Specify the new description of the Drive document.

#### **File type (GDRTYPE)**

File type.

**\*DEFAULT**

The type is acquired from the extension of the file specified by the OBJ parameter.

**character-value**

Not supported value.

#### **New revision (NEWRVS)**

Specifies if a new revision wants to be created.

**\*YES**

A new revision is created.

**\*NO**

The current revision is modified.

#### **Job parameters (PJOB)**

Defines which parameters have to be provided to the job.

**\*BASIC**

The default parameters are assigned to the job.

**\*EXTENDED**

Additional parameters are assigned to the job.

#### **Start batch (BATCH)**

Specifies the way in which the command is activated.

**\*YES**

The command is processed in BATCH.

**\*NO**

The command is processed interactively.

#### **Job queue (JOBQ)**

If the parameter BATCH is \*YES, specifies the job queue where you want to submit the command.

**\*DEFAULT**

The default job queue is used.

**character-value**

Specify a valid job queue.

#### **Log (LOG)**

Specifies if the command has to leave a track in logs.

**\*YES**

The job steps are traced in the logs.

**\*NO**

Does not keep track of the command execution.

#### **Number of retries (RTYNBR)**

Specifies the number of attempts that the command has to try in case of error.

**5**

5 is the number of the default attempts.

***unsigned-integer***

Specify a valid number of attempts.

#### **User exit program (USEREXIT)**

Is a program name that the command activates at the end of the command.  
(This option is not active in this version)

Qualifier 1: User exit program

**\*NONE**

No user program is called.

***name***

Specify a name of an existing program.

Qualifier 2: Library

**\*CURRENT**

Specifies the current library.

***name***

Give the name of the library in which the user program is found.

#### **Store and Forward (STOFRW)**

Specifies the necessity to copy the AS400 file before activating the command. (This option is not active in this version)

**\*YES**

The AS400 file is first copied in a temporary directory and it is then transferred.

**\*NO**

The AS400 file is sent to Drive without being copied.

#### **Compress (CMPOPT)**

Compresses the file. (This option is not active in this version)

**\*YES**

Compresses the file before it is sent.

**\*NO**

Does not compress the file before it is sent.

#### **Data encryption policy (ENCRPOLICY)**

The file is encrypted before it is send. (This option is not active in this version)

**\*NONE**

Does not apply a encrypty on the file that has to be transferred.

**\*DEFAULT**

Applies the default encrypty on the file that has to be transferred.

***character-value***

Specify the type of encrypty to be applied to the file.

#### **Block length (DIMBLK)**

Specifies the transmission block size.

**0**

A default size is used.

***unsigned-integer***

Specify a customized block size.

#### **Optional query parameters (OPTPARM)**

Specifies the optional parameter levels that have to be given to the document.

**\*BASIC**

The default optional parameters are given.

**\*EXTENDED**

The extended optional parameters are given.

#### **File conversion (CONV)**

Specifies whether to apply a conversion to the file that has to be transferred.

**\*YES**

The document that is transferred will be converted in a Drive document.

**\*NO**

The document that is transferred wont be converted in a Drive document.

#### **OCR (OCR)**

Specifies whether to apply an OCR identification.

**\*YES**

The image or the PDF document is analyzed to recover the contained texts.

**\*NO**

The identification test is not applied to the transferred document.

#### **OCR ISO 639-1 language (OCRLNG)**

Specifies the language to be applied to the OCR identification.

***character-value***

Specify a language.

#### **Pinned (PINNED)**

Pins the document.

**\*YES**

Pins the document.

**\*NO**

Does not pin the document.

#### **Timed text language (TTXTLNG)**

Timed text language.

***character-value***

Timed text language.

#### **Timed text track name (TTXTTRCKNM)**

Timed text name.

***character-value***

Timed text name.

#### **Content as indexable text (CNTIDX)**

Specifies whether Google has to index the document content.

**\*YES**

The document content is indexed by Google.

**\*NO**

The document content is not indexed by Google.

#### **Optional properties (OPTPROP)**

Defines which optional properties will be assign to the document.

**\*BASIC**

The basic optional properties are applied.

***\*EXTENDED***

The extended optional properties are applied.

**Indexable text (IDXTXT)**

Specifies the text to be used for document indexing.

***\*SAME***

The text is not modified.

***character-value***

Specify a valid text.

**Hidden (HIDDEN)**

Specifies the HIDDEN document attribute.

***\*SAME***

The attribute is not modified.

***\*YES***

The document is hidden.

***\*NO***

The document is not hidden.

**Restricted (RESTR)**

Specifies whether to protect the document from the download.

***\*SAME***

The attribute is not modified.

***\*YES***

The document is protected from the download.

***\*NO***

The document is not protected from the download.

**Starred (STARRED)**

Specifies whether to apply the star to the document.

***\*SAME***

The attribute is not modified.

***\*YES***

The star is applied to the document.

***\*NO***

The star is not applied to the document.

**Trashed (TRASHED)**

Specifies whether to throw the document in the recycle bin.

**\*SAME**

The attribute is not modified.

**\*YES**

The document is thrown in the recycle bin.

**\*NO**

The document is restored from the recycle bin.

**Viewed (VIEWED)**

Specifies whether to mark the document as viewed.

**\*SAME**

The attribute is not modified.

**\*YES**

The document is marked as viewed.

**\*NO**

The document is marked as not viewed.

**Last viewed date (LASTDTVW)**

Specifies the date you viewed the document if the VIEWED parameter is set on \*YES.

***date***

Set a valid date.

**Last viewed time (LASTTMVW)**

Specifies the last time the document was accessed.

***time***

Set a valid time.

**Last changed date (LASTDTCHG)**

Specifies when the document was changed last time.

***date***

Set a valid date.

**Last changed time (LASTTMCHG)**

Specifies when the document was changed last time.

***time***

Set a valid hour.

**Application attributes files (CUSTOMATTR)**

Specifies a file that contains a list of additional attributes.

**\*SAME**

The user attributes are not modified.

***character-value***

Specify a file that contains a list of additional attributes.

---

# Grant Google Drive object permission (GRTGDROPRM)

Share the Google Drive object. It is possible to reach the command through the menu:

```
GO G4IMENU > option 2 > option 4 > option 1
```

## Google Email (GACCOUNT)

Specifies the account name.

It is a required parameter.

### ***path-name***

Specify a Google email or an email registered in Google Drive that you have already registered.

## Path or Id Doc. Google Drive (GDRDOC)

Specifies the document that you want to share.

It is a required parameter.

### ***path-name***

Specify the path of the file you want to share or the identification assigned by Google Drive to the document.

## Role (ROLE)

Specifies the role to be assigned to the account sharing the document.

### ***\*READER***

The account will only be able to read the document.

### ***\*WRITER***

The account will be able to read and change the document.

### ***\*OWNER***

The account will be able to read, change and delete the document.

## Type (TYPE)

Specifies who you want to share the document with.

### ***\*USER***

Share the document with an email only.

### ***\*GROUP***

Share the document with a group of email.

### ***\*DOMAIN***

Share the document with an entire domain.

### ***\*ANYONE***

Share the document with everybody.

**Value (VALUE)**

Represents an Email/Group/Domain depending on the TYPE parameter.

***character-value***

Specify a valid email or group or domain.

**Send email (EMAIL)**

Specifies whether to send an email to the account you want to share the document with.

***\*YES***

Sends an email.

***\*NO***

Does not send an email.

**Email text (MESSAGE)**

Contains the message to be sent by email in case EMAIL is set on \*YES.

***character-value***

Specify the message to be sent by email.

**Output file (OUTPUT)**

Specifies a file where to list the share history of the document

Qualifier 1: Output file

***\*NONE***

The share list file is not created.

***\*DEFAULT***

The share list file is created in QTEMP.

***name***

Specify the name of the share list file.

Qualifier 2: Library

***QTEMP***

Default library.

***name***

Specify the name of the library where you want to write the file.

---

## Google Drive object permissions list (LSTGDROPRM)

Lists the share history of a Drive document.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 2 > option 4 > option 3
```

### Google Email (GACCOUNT)

Google Account name.

It is a required parameter.

#### ***character-value***

Specify a Google email or an email registered in Google Drive.

### Path o Id Doc. Google Drive (GDRDOC)

Specifies the document of which you want to see the share list. It is a required parameter.

#### ***character-value***

Specify the Drive document path or its identification.

### Output file (OUTPUT)

Specifies a file where to list the share active on the document.

Qualifier 1: Output file

#### ***\*DEFAULT***

The share list file is created in QTEMP.

Specifies the name of the file where to write the share list.

Qualifier 2: Library

#### ***QTEMP***

Default library.

#### ***name***

Specify the name of library where you want to write the file.

---

## Revoke Google Drive obj permissions (RVKGDROPRM)

Revokes active sharing of a Drive document.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 2 > option 4 > option 2
```

### Google Email (GACCOUNT)

Name of the Google account.

It is a required parameter.

#### ***path-name***

Specify the name of an existing Google email or an email registered in Google Drive.

### Path o Id Doc. Google Drive (GDRDOC)

Specifies the document that you do not want to share anymore.

It is a required parameter.

#### ***path-name***

Specify the file path or the identification assigned by Google Drive to the document.

### Permission Id (PERMID)

Specifies the permission id.

It is a required parameter.

#### ***character-value***

Specify the permission id. This is obtained with the LSTGDROPRM command.

---

## Change Drive4i value (CHGD4IVAL)

The Change Google Drive4i Value (CHGD4IVAL) command changes the current value of the specified product value.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 1 > option 1
```

### Drive4i Value (GVAR)

Specifies the name of the product value whose value is being changed.

This is a required parameter

#### **\*USER**

Specifies the user profile that Drive4i will use to access the IBMi file system.

#### **\*PASSWORD**

Specifies the user profile password that Drive4i will use to access the IBMi file system. The password will be encrypted and will be used on IBMi only.

#### **\*HOST**

Specifies the IP address or the system name.

### New value (GVAL)

Specifies the new value of the product value.

This is a required parameter.

#### ***character-value***

Specify the new value of the product value.

---

## Subsystem activation

Activates the subsystem which manages all the transactions.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 3 > option 2
```

The subsystem is activated and it is given the same name of the library.

The command 1

```
WRKACTJOB SBS(JTGA020000)
```

shows all the jobs which are active in the subsystem.

```
Work with Active Jobs                                JET515
                                                    06/03/14  14: 48: 56
CPU %:      6,2      Elapsed time:  00: 09: 39      Active jobs:  247

User
Opz  Subsys/Job  current  Type  % CPU  Function  Status
   JTGAXX      QSYS      SBS    0,0                DEQW
   JTGAXX      QSECOFR   BCH    0,0  PGM-G4IAGENT  DEQW

End

===>
F21=View instructions/buttons
```

The G4IAGENT program verifies whether any \*RESTART transmission exists, and it restores the transmission as many times as it was decided.

See CHKGGOOGLE command.

---

## Disable subsystem

Disables the system that restores the transmissions.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 3 > option 3
```

The sub system with the same name of the library is disabled.

---

# Transports manager (WRKD4ITRX)

Transmissions management.

It is possible to reach the command through the menu:

```
GO G4IMENU > option 2 > option 5
```

## Transmissions status (STATUS)

Specifies the status of the transmissions to be managed.

**\*ALL**

All the transmissions.

**\*PND**

Transmissions in \*PND status only.

**\*END**

Transmissions in \*END status only.

The program shows the transmissions list:

```
6/03/14   Google DRIVE4I                               14: 49: 44
          Statistics / return code
0 Start Date/Time   Op. Cd Status   % Trx OS Object Name
          (from)
-----
06/03/2014 02. 29. 10 Updte *COMPLETED
06/03/2014 02. 27. 27 Read  *COMPLETED 100 /temp/server-racks.jpg
06/03/2014 02. 27. 01 Read  *FAILED      /temp/server-racks.jpg
06/03/2014 02. 23. 17 Write *COMPLETED 100 /jetlab/server-racks.jpg

                                               End

Reset Status: F8=Hold, F9=EndJobAbn  Enter=Details
F3=Exit, F4=Objects, F5=Refresh, F6=Filter, F7=Msg, F10=Reset, F11=Toggle
```

From this application it is possible to supervise the transmission status:

**Enter**

Consults the details depending on the information you are looking at.  
(F11=Toggle)

**F3=exit**

Exits the program.

**F4=Object**

Consults the name of the AS400 transferred object and the name of the document.

**F5=Refresh**

Reads again the transmissions status.

**F6=Filter**

Applies a filter to the list.

**F7=Msg**

Consults the messages recorded by the transmissions.

**F8=Hold**

Holds a transmissions.

**F9=EndJobAbn**

Ends a transmission independently from its status.

**F10=Reset**

Resets the active filter.

**F11=Toggle**

Changes the detail that you want to consult.