

z/OS V2.5 IBM Education Assistant

Solution Name: z/OSMF USS file search and submit as a job

Solution Element(s): z/OSMF Core



Agenda

- Trademarks
- Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Upgrade & Coexistence Considerations
- Installation & Configuration
- Summary
- Appendix

Trademarks

- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.
- Additional Trademarks:
 - None.

Objectives

- As a user of z/OSMF, I can perform USS file related functions, including search USS file or directory, browse and edit content of USS file, delete directory or USS file.
- As a user of z/OSMF, I can create shortcuts for USS file or directory on z/OSMF desktop or folder to access them easily.
- As a user of z/OSMF, I can submit USS file or data set as a job directly from z/OSMF editor window and view the job outputs.

Overview

- Who (Audience)

- z/OSMF Users

- What (Solution)

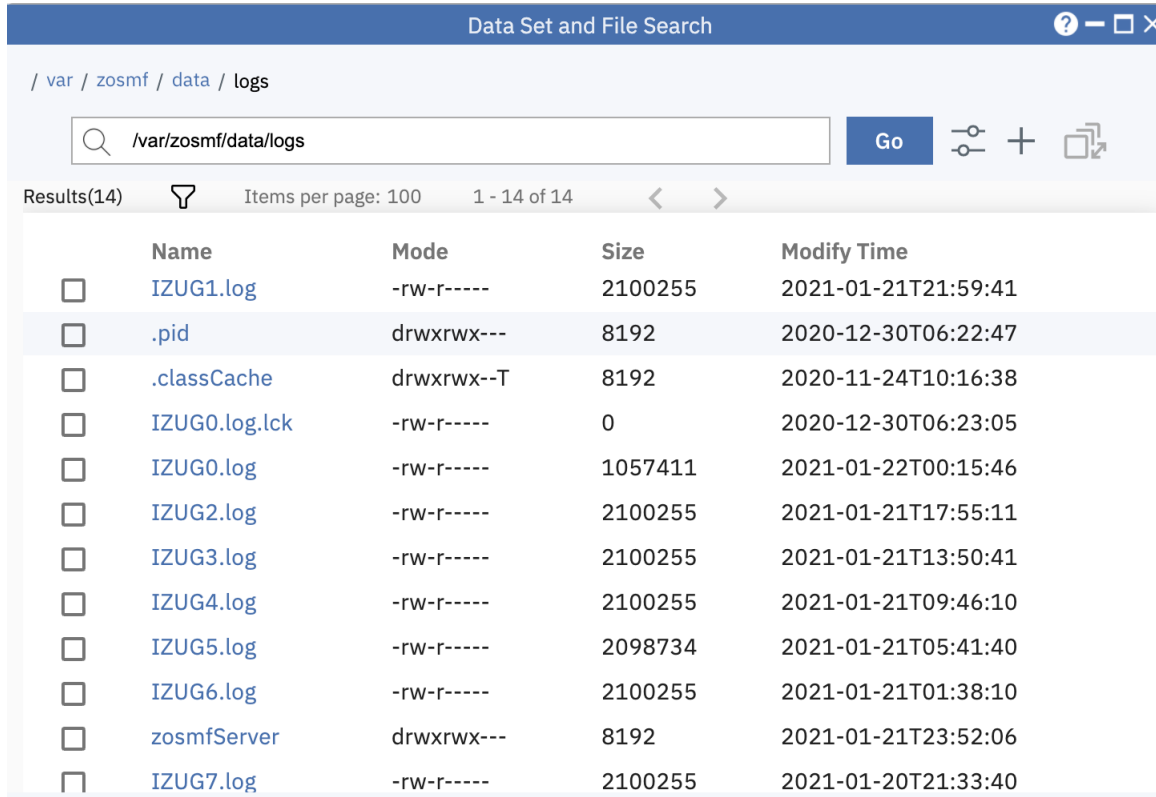
- z/OSMF desktop UI is enhanced to support USS file search and related operations, users can save frequently used files, data sets as shortcuts on the desktop and find them easily next time.
- The UI is also enhanced by add the support of submitting a data set or file as JCL and view the job outputs. A light-weight Job Outputs widget on the desktop is added to view all jobs.

- Wow (Benefit / Value, Need Addressed)

- Users of z/OSMF often need to search and edit a USS file to work with z/OSMF plugins or in the daily work, but have to go to 3270 or a standalone tool to accomplish it, which could be with a poor user experience with an editor like 3270, or could lose track of the path when working on multiple files like using FTP.
- With this solution, users have the ability to perform USS file related functions on z/OSMF desktop UI, which provides a user-friendly editor, and could work on multiple files simultaneously, and save changes right back afterwards.
- Moreover, frequently used files/directories could be saved as shortcuts on the desktop, which can be found easily on the next time, users don't have to search it every time it's needed.

Usage & Invocation

- 1. Click on the Data Set and File Search icon on the task bar of z/OSMF desktop.
- 2. Input keyword starts with a slash “/” to indicate a file search, hit enter key or Go button to search.
- 3. The results are displayed as a table containing name and attributes of each file/directory.



The screenshot shows the 'Data Set and File Search' interface. At the top, the breadcrumb path is '/ var / zosmf / data / logs'. Below it, a search bar contains '/var/zosmf/data/logs' and a 'Go' button. The results are displayed in a table with 14 items. The table has columns for Name, Mode, Size, and Modify Time. Each row has a checkbox on the left.




	Name	Mode	Size	Modify Time
<input type="checkbox"/>	IZUG1.log	-rw-r-----	2100255	2021-01-21T21:59:41
<input type="checkbox"/>	.pid	drwxrwx---	8192	2020-12-30T06:22:47
<input type="checkbox"/>	.classCache	drwxrwx--T	8192	2020-11-24T10:16:38
<input type="checkbox"/>	IZUG0.log.lck	-rw-r-----	0	2020-12-30T06:23:05
<input type="checkbox"/>	IZUG0.log	-rw-r-----	1057411	2021-01-22T00:15:46
<input type="checkbox"/>	IZUG2.log	-rw-r-----	2100255	2021-01-21T17:55:11
<input type="checkbox"/>	IZUG3.log	-rw-r-----	2100255	2021-01-21T13:50:41
<input type="checkbox"/>	IZUG4.log	-rw-r-----	2100255	2021-01-21T09:46:10
<input type="checkbox"/>	IZUG5.log	-rw-r-----	2098734	2021-01-21T05:41:40
<input type="checkbox"/>	IZUG6.log	-rw-r-----	2100255	2021-01-21T01:38:10
<input type="checkbox"/>	zosmfServer	drwxrwx---	8192	2021-01-21T23:52:06
<input type="checkbox"/>	IZUG7.log	-rw-r-----	2100255	2021-01-20T21:33:40




Usage & Invocation

- 4. Use the filter icon or the Advance Search panel to find the desired file/directory.

Data Set and File Search

/ var / zosmf / data / logs




  


Results(14)  Items per page: 100 1 - 14 of 14  

	Filter	Mode	Size	Modify Time
<input type="checkbox"/>	IZUG1.log	-rw-r-----	2100255	2021-01-21T21:59:41
<input type="checkbox"/>	.pid	drwxrwx---	8192	2020-12-30T06:22:47
<input type="checkbox"/>	.classCache	drwxrwx--T	8192	2020-11-24T10:16:38
<input type="checkbox"/>	IZUG0.log.lck	-rw-r-----	0	2020-12-30T06:23:05
<input type="checkbox"/>	IZUG0.log	-rw-r-----	1057411	2021-01-22T00:15:46
<input type="checkbox"/>	IZUG2.log	-rw-r-----	2100255	2021-01-21T17:55:11
<input type="checkbox"/>	IZUG3.log	-rw-r-----	2100255	2021-01-21T13:50:41
<input type="checkbox"/>	IZUG4.log	-rw-r-----	2100255	2021-01-21T09:46:10
<input type="checkbox"/>	IZUG5.log	-rw-r-----	2098734	2021-01-21T05:41:40
<input type="checkbox"/>	IZUG6.log	-rw-r-----	2100255	2021-01-21T01:38:10
<input type="checkbox"/>	zosmfServer	drwxrwx---	8192	2021-01-21T23:52:06
<input type="checkbox"/>	IZUG7.log	-rw-r-----	2100255	2021-01-20T21:33:40

Data Set and File Search




/ var / zosmf / data / logs

Search Options for
File 

Depth
1

Type
d

Results(3)  Items per page: 100 1 - 3 of 3  

	Name	Mode	Size	Modify Time
<input type="checkbox"/>	.pid	drwxrwx--	8192	2020-12-30T06:22:47
<input type="checkbox"/>	.classCache	drwxrwx--T	8192	2020-11-24T10:16:38
<input type="checkbox"/>	zosmfServer	drwxrwx--	8192	2021-01-21T23:52:06

Usage & Invocation

- 5. Use the path navigator to go to the parent folder and display the contents in the table.

Data Set and File Search

/ var / zosmf / data / logs

/var/zosmf/data/logs

Go

Results(14) Items per page: 100 1 - 14 of 14

	Name	Mode	Size	Modify Time
<input type="checkbox"/>	IZUG1.log	-rw-r-----	2100617	2021-01-22T02:17:16
<input type="checkbox"/>	.pid	drwxrwx---	8192	2020-12-30T06:22:47
<input type="checkbox"/>	.classCache	drwxrwx--T	8192	2020-11-24T10:16:38
<input type="checkbox"/>	IZUG0.log.lck	-rw-r-----	0	2020-12-30T06:23:05
<input type="checkbox"/>	IZUG0.log	-rw-r-----	1401395	2021-01-22T05:00:16
<input type="checkbox"/>	IZUG2.log	-rw-r-----	2100255	2021-01-21T21:59:41
<input type="checkbox"/>	IZUG3.log	-rw-r-----	2100255	2021-01-21T17:55:11
<input type="checkbox"/>	IZUG4.log	-rw-r-----	2100255	2021-01-21T13:50:41
<input type="checkbox"/>	IZUG5.log	-rw-r-----	2100255	2021-01-21T09:46:10
<input type="checkbox"/>	IZUG6.log	-rw-r-----	2098734	2021-01-21T05:41:40
<input type="checkbox"/>	zosmfServer	drwxrwx---	8192	2021-01-21T23:52:06

Data Set and File Search

/ var / zosmf

/var/zosmf

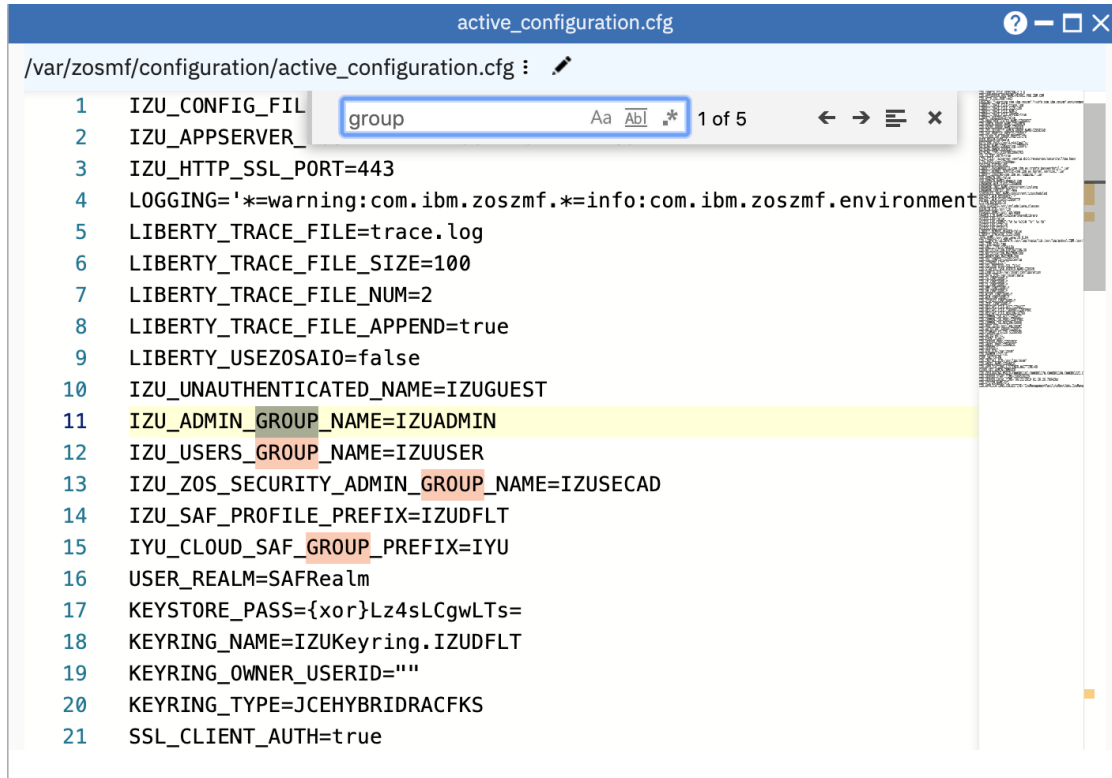
Go

Results(2) Items per page: 100 1 - 2 of 2

	Name	Mode	Size	Modify Time
<input type="checkbox"/>	configuration	drwxrwx---	8192	2021-01-21T23:51:47
<input type="checkbox"/>	data	drwxrwx---	8192	2021-01-21T23:52:02

Usage & Invocation

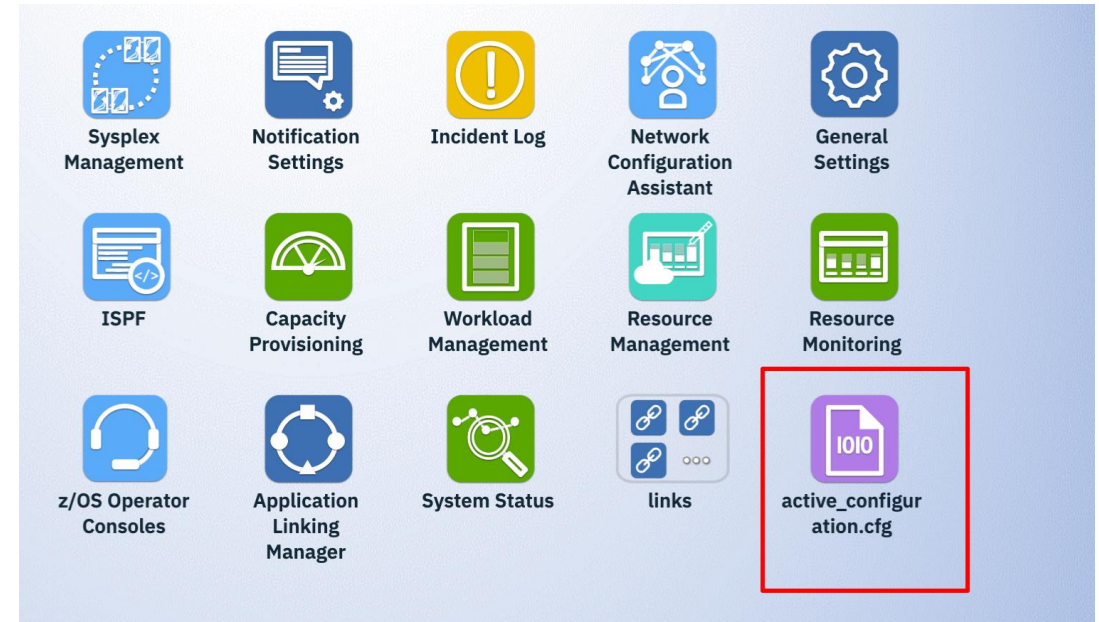
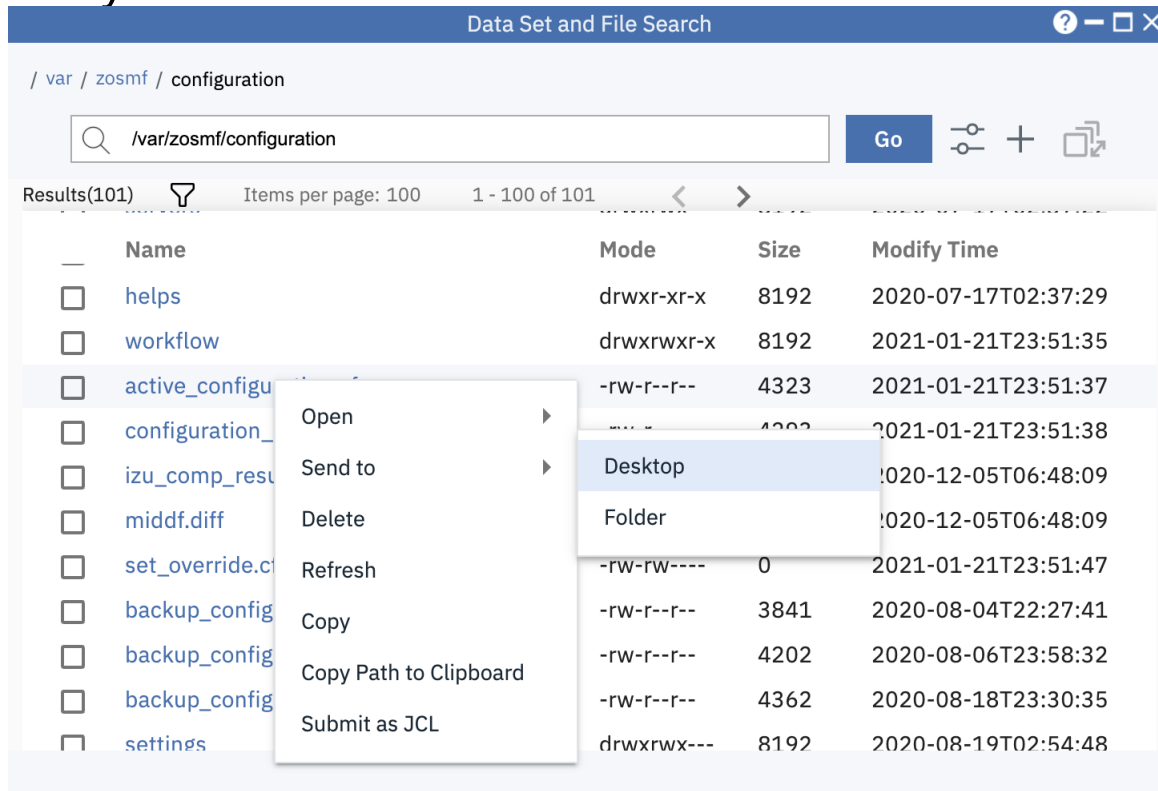
- 6. Browse/edit a file.
- Click on a file name, an editor will open with content of the file loaded.
- The editor is VS Code derived, and has capabilities like search/highlight/go to line, and other functions available by right click -> Command Palette. A general view of the content is on the right side, dragging through it can quick locate to a position of the file.



```
active_configuration.cfg
/var/zosmf/configuration/active_configuration.cfg :
1 IZU_CONFIG_FILE
2 IZU_APPSERVER_
3 IZU_HTTP_SSL_PORT=443
4 LOGGING='*=warning:com.ibm.zosmf.*=info:com.ibm.zosmf.environment
5 LIBERTY_TRACE_FILE=trace.log
6 LIBERTY_TRACE_FILE_SIZE=100
7 LIBERTY_TRACE_FILE_NUM=2
8 LIBERTY_TRACE_FILE_APPEND=true
9 LIBERTY_USEZOSAI0=false
10 IZU_UNAUTHENTICATED_NAME=IZUGUEST
11 IZU_ADMIN_GROUP_NAME=IZUADMIN
12 IZU_USERS_GROUP_NAME=IZUUSER
13 IZU_ZOS_SECURITY_ADMIN_GROUP_NAME=IZUSECAD
14 IZU_SAF_PROFILE_PREFIX=IZUDFLT
15 IYU_CLOUD_SAF_GROUP_PREFIX=IYU
16 USER_REALM=SAFRealm
17 KEYSTORE_PASS={xor}Lz4sLCgwLTs=
18 KEYRING_NAME=IZUKeyring.IZUDFLT
19 KEYRING_OWNER_USERID=""
20 KEYRING_TYPE=JCEHYBRIDRACFKS
21 SSL_CLIENT_AUTH=true
```

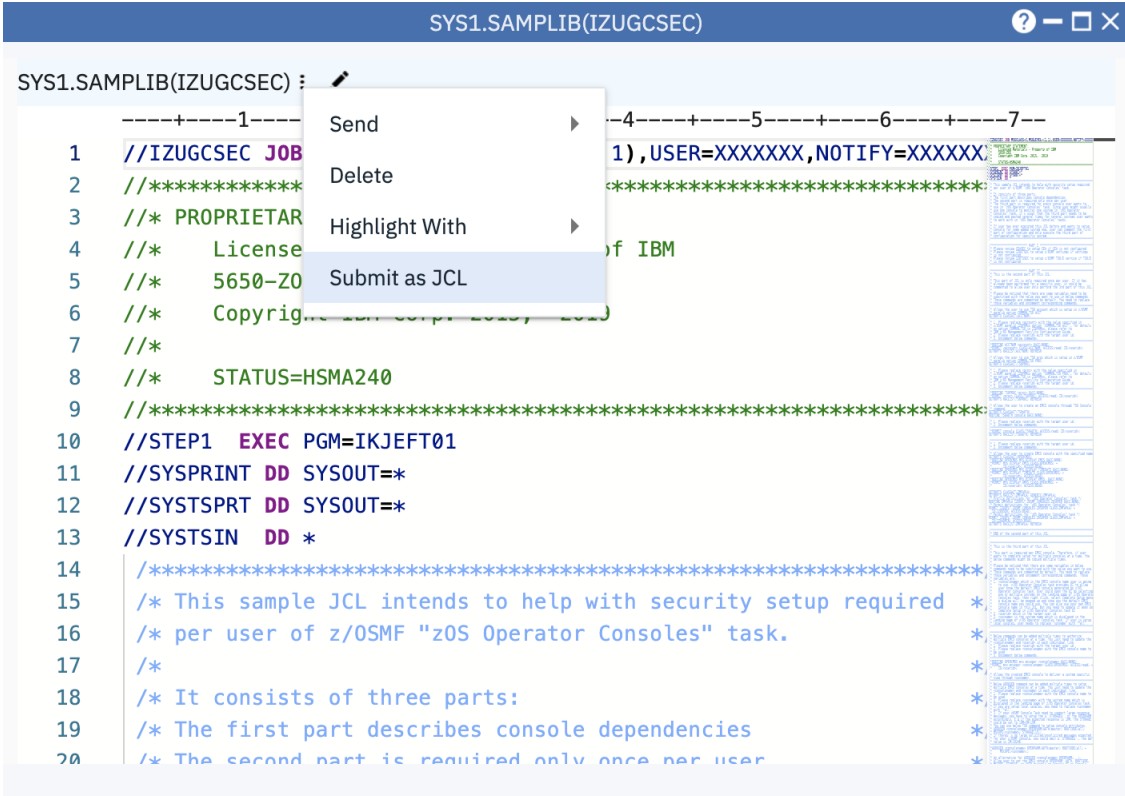
Usage & Invocation

- 7. Save frequently used directory/file as a shortcut, save them on the desktop.
- Right click on each name in the table will show a context menu, containing actions to open (the default action), delete, send to desktop.
- With “Send” action, you can choose to send the selected directory/file to the desktop or to a folder. An icon will be created on the desktop/folder, so next time finding the favorite directory/file is fast and easy.



Usage & Invocation

- 8. Submit a data set/file as JCL from the search results, or the editor window.



Usage & Invocation

- 9. Check job output in the prompt window, or use the “Job Outputs” task



to view all the jobs

Job Output(IZUGCSEC_JOB00067)

My Jobs/IZUGCSEC(JOB00067) ...

Owner: XXXXXX

Max - CC: SEC ERROR

Status: OUTPUT

Type: JOB

Job Data Sets

JESMSGLG(2) X

1 1 JES2 JOB LOG -- SYSTEM S

2 0

3 05.27.47 JOB00067 ---- FRIDAY, 22 JAN 2021 ----

4 05.27.47 JOB00067 ICH408I USER(XXXXXXX) GROUP() NAME(??

5 0 LOGON/JOB INITIATION - USER AT TERMINAL

6 05.27.47 JOB00067 IRR012I VERIFICATION FAILED. USER PROFILE NOT

7 -\$HASP106 JOB DELETED BY JES2 OR CANCELLED BY OPERATOR BEFORE EXEC

8 0----- JES2 JOB STATISTICS -----

9 0 227 CARDS READ

10 0 13 SYSOUT PRINT RECORDS

11 0 0 SYSOUT PUNCH RECORDS

12 0 0 SYSOUT SPOOL KBYTES

13 0 0.00 MINUTES EXECUTION TIME

14

Job Output

My Jobs

Retrieve

Job Name	Job ID	Status	Owner	Max - CC	Type
IBMUSER	TSU00065	ACTIVE	IBMUSER		TSU
IBMUSER	TSU00064	ACTIVE	IBMUSER		TSU
IBMUSER	TSU00063	ABEND S222	IBMUSER	ABEND S222	TSU
IBMUSER	TSU00062	ABEND S222	IBMUSER	ABEND S222	TSU
OMPROUTE	STC00061	ACTIVE	OMPROUTE		STC

Items per page: 30

1-30 of 31 items

1 of 2 pages

**Note: If the expected jobs are not in the list, try to retrieve them by "Retrieve" button.*

Interactions & Dependencies

- Software Dependencies
 - z/OSMF File and Data Set Services
- Hardware Dependencies
 - None
- Exploiters
 - None

Upgrade & Coexistence Considerations

- To exploit this solution, all systems in the Plex must be at the new z/OS level:
 - No
- List any toleration/coexistence APARs/PTFs.
 - N/A
- List anything that doesn't work the same anymore.
 - N/A
- Upgrade involves only those actions required to make the new system behave as the old one did.
 - N/A
- Coexistence applies to lower level systems which coexist (share resources) with latest z/OS systems.
 - N/A

Installation & Configuration

- None

Summary

- The following z/OS V2R5 item has been explained:
z/OSMF USS File Search and Submit as A Job

Appendix

- Publications : N/A