

Agenda

z/OSMF Guild Meeting 14 - January 18th, 2023

z/OSMF Requests for Enhancements(RFEs) & Ideas Portal

Li Qi

z/OSMF Product Owner & Master Inventor, IBM



**z/OSMF
Guild**

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NOTICE



This is a public conversation and is NOT protected by any non-disclosure agreement.

Please keep all topics publicly available.

If you would like more information about joining sponsor user programs please reach out to the steering committee.

Includes planned future deliverables

z/OSMF Guild Team



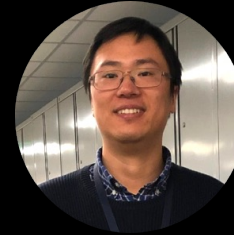
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Please reach out to us
with any questions or
concerns.

Guild Session 14 Website

<https://ibm.biz/zOSMFGuild14>

Meeting Details

- Agenda
- Recordings
- Discussion Forum
- Presentation
- Poll
- Additional Resources

z/OSMF Community Guild

Meeting No. 14

z/OSMF Requests for Enhancements (RFEs) & Ideas Portal

Join our upcoming Guild session featuring Li Qi of the z/OSMF core IBM team, who will provide an in-depth overview of z/OSMF Requests for Enhancements (RFEs). The session will cover how to use the IBM Ideas Portal and highlight key z/OSMF RFEs that have been recently delivered.

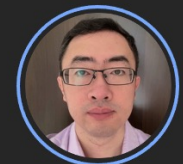


Wednesday January 18, 2023
10:00 to 11:00 AM EST



<https://ibm.biz/zOSMFGuild14>

Featured Speaker



Li Qi

z/OSMF Product Owner &
Master Inventor, IBM



Statements regarding IBM future direction and intent are subject to change or withdrawal, and represent goals and objectives only

z/OSMF News

- Community Blog Article by Fiona King: [Why z/OSMF may be the right tool for your modernization toolbox](#)
- Installing a Broadcom Product with z/OSMF [Broadcom z/OSMF Install YouTube Video](#)



What's Next!

z/OSMF Guild Session No. 15

Ask
z/OSMF
Anything!

February 15, 2023
10:00 to 11:00 AM EST

Featured Speakers



Marna Walle
STSM z/OS Install



Gary Puchkoff
STSM z/OS New Technology



Xiao Zhen (Joey) Zhu
STSM z/OSMF Development



Hiren Shah
STSM SW Provisioning



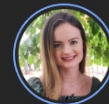
Kurt Quackenbush
z/OS Install Lead



Mike Fox
Enterprise Networking



Rolando Perez
Design Lead z/OSMF



Fiona King
Product Manager z/OSMF

ibm.biz/zOSMFGuildHome
Guild Home Page for access to all
materials presented during the Guild

ibm.biz/zOSMFCommunity
Join our Community page for updates
and new content



Agenda

- How to open and vote z/OSMF RFEs ←
- Highlights of the recent z/OSMF RFE deliveries

How to Open z/OSMF RFEs – You Speak, We Listen!

[IBM Z Hardware and Operating Systems Ideas portal](#)

Q Search all ideas...

+ ADD A NEW IDEA

My ideas 0

My votes 0

FILTER BY CATEGORY

- IBM Z and LinuxONE Systems Hardware 163
- Linux on IBM Z and LinuxONE 1
- z/OS 2404
- z/VM 357

All ideas

Sort by: Trending Filter by: Status

Showing 2925 of 2925

20 **PKI client service within z/OS to access external PKI for certificate request/(auto)approval**

VOTE

PKI Services (z/OS2.5) supports the following EST functions:1. cacerts: requests the EST CA certificates (the whole chain of the issuers' certificates) using Simple PKI Request.2. simpleenroll: requests a certificate with supplied public key using...

25 days ago in z/OS / z/OSMF 0 Future consideration

1 **Provide a way to programmatically determine if the RACF database is locked.**

VOTE

RACF database maintenance routinely updates the RACF database. When IRRUT400 is running and has the database locked during database backups, this can cause problems with these updates. If it can be determined if the database is locked, the updates...

2 days ago in z/OS / RACF 0 Submitted

10 **System Logger offload monitoring should create a diagnostic dump upon detection of an offload delay.**

VOTE

System Logger offload monitoring provides notification of delays in log stream offload processing with the goal of allowing an installation to take action to prevent log streams filling to capacity, which would result in the failure of IXGWRITE re...

20 days ago in z/OS / BCP_Logger 0 Future consideration

Add idea

Choose a workspace for this idea

z/OS

Your idea Required

One sentence summary of the idea



Any similar ideas will appear here when you start typing. Consider voting for them before you create a new idea.

Choose a category for this idea Required

z/OSMF

Please add more details Required

Paragraph B I U S </> A [List icons] +

Why is it useful, who would benefit from it, how should it work?

Attach files

Additional details

Paragraph B I U S </> A [List icons] +

This information will not be displayed on the Ideas portal.

Attach files

Company Required

This information will not be displayed on the Ideas portal.

Contact Email

Contact name for additional information if other than originator.

Idea priority Required

Support case ID

If appropriate. This information will not be displayed on the Ideas portal.

Idea Source

ADD IDEA

How to Vote z/OSMF RFEs

– Increase the chances IBM takes the action!

[IBM Z Hardware and Operating Systems Ideas portal](#)

Q Incident Log https

+ ADD A NEW IDEA

My ideas 0
My votes 0

FILTER BY CATEGORY

- IBM Z and LinuxONE Systems Hardware 163
- Linux on IBM Z and LinuxONE 1
- z/OS 2404
- z/VM 357

All ideas Sort by: Trending Filter by: Status Showing 2925 of 2925

20 **PKI client service within z/OS to access external PKI for certificate request/(auto)approval** **VOTE**

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25 days ago in z/OS / z/OSMF 0 Future consideration

1 **Provide a way to programmatically determine if the RACF database is locked.** **VOTE**

RACF database maintenance routinely updates the RACF

- If the details of your use case are different from the raiser, join the discussion by adding a comment
- Click Subscribe to be notified of when the status of the Idea changes

Q Incident Log https x

+ ADD A NEW IDEA

My ideas 0
My votes 0

FILTER BY CATEGORY

- IBM Z and LinuxONE Systems Hardware 0
- Linux on IBM Z and LinuxONE 0
- z/OS 1
 - Core Infrastructure 1
 - z/OSMF 1

Search results Sort by: Trending Filter by: Status Showing 1 of 1

23 **Allow permanent HTTPS_KEYRING name for HTTPS PDUU for z/OSMF Incident Log** **VOTE**

Because the HTTPS_KEYRING name field is not preserved in the z/OSMF Incident Log 'Send data' wizard between two sessions the z/OSMF user MUST know/enter the keyring name each time before sending data. The HTTPS_KEYRING name should not be a mandato...

7 months ago in z/OS / z/OSMF 1 Delivered

By clicking the "Post Comment" or "Submit Idea" button, you are agreeing to the [IBM Ideas Portal Terms of Use](#).

Do not place IBM confidential, company confidential, or personal information into any field.

Agenda

- How to open and vote z/OSMF RFEs
- Highlights of the recent z/OSMF RFE deliveries ←

Highlights of the Recent z/OSMF RFE Deliveries

- Workflow
 - Store Job execution history information (APAR PH21919, 2020)
 - Increase the maximum # of workflows (APAR PH39153, 2022)
 - Provide file selection list to choose a workflow definition file (APAR PH28532, 2020)
 - Provide JCL editor capabilities in Workflow Editor (**29 votes**, APAR PH24190, 2020)
 - Show the location of the workflow definition file (**19 votes**, 3 RFEs, APAR PH21919, 2020)
 - Provide a column of date created (**10 votes**, 2 RFEs, APAR PH24190, 2020)
- Incident Log
 - Transfer diagnostic data to IBM HTTPS server (**106 votes**, APAR PH39848, 2022)
 - Allow permanent HTTPS_KEYRING name (**23 votes**, APAR PH47683, 2022)
- z/OS Operator Console
 - Support for WTOR and HOLD messages (2 RFEs, APAR PH30881, 2020)

Highlights of the Recent z/OSMF RFE Deliveries (cont.)

- Sysplex Management
 - Allow export of CFRM policy to CSV-format file(**11 votes**, APAR PH44343, 2022)
- Web ISPF
 - Allow to define global settings (APAR PH34102, 2021)
- Security Configuration Assistant
 - Validate security for z/OSMF Nucleus and SCA before first starting z/OSMF (**17 votes**, APAR PH45350, 2022)
- Desktop
 - Update z/OSMF password (**61 votes**, APAR PH34912, 2021)
- z/OSMF Log Files
 - View the z/OSMF log files through the UI (**12 votes**, APAR PH16076&PH21896, 2020)



Workflow

- Support saving jobs output in user defined directory

Problem Statement / Need Addressed / User Stories

Today some customers want to track the work that was done in a workflow instance outside the workflow “user interface”, but there is no way for the workflow owner to track the job output files associated with the instance outside the workflow “user interface”. What’s more, after a workflow instance is deleted, it’s hard for the workflow users to track what was done in the workflow instance.

Solution

Workflow supports to save the jobs output files to the z/OS Unix file directory.

Benefit / Value

As a z/OSMF workflow owner, I can save the jobs output files of the workflow instance to the z/OS Unix file directory, so that I can have a permanent record of the work that was done in a workflow.

Workflow

- Support saving jobs output in user defined directory (cont.)

- New optional element *“jobsOutputDirectory”* is added in workflow schema file to indicate the default Unix file directory where to save the job output files.
- It is also supported in Workflow Editor.

```
<xs:complexType name="workflowInfoType">
  <xs:sequence>
    <!-- Workflow contains parallel steps or not -->
    <xs:element name="parallelSteps" type="workflowBooleanType" default="false" minOccurs="0" maxOccurs="1"/>
    <!-- Workflow information is not optional -->
    <xs:element name="workflowID" type="workflowIDType"/>
    <!-- Workflow Default Name is optional -->
    <xs:element name="workflowDefaultName" type="nonNullString" minOccurs="0"/>
    <!-- Workflow description. Displayed on screen. -->
    <xs:element name="workflowDescription" type="nlsString"/>
    <!-- Workflow XML document version. Any text. Release/Feature/bug
        number if applicable. Displayed on workflow info screen. -->
    <xs:element name="workflowVersion" type="nonNullString"/>
    <!-- "vendor" can be anything for a non-configuration workflow. -->
    <xs:element name="vendor" type="nonNullString"/>
    <xs:choice>
      <!-- A (software) Configuration workflow has additional product info -->
      <xs:element name="Configuration" type="configType"/>
      <!-- A provisioning workflow has additional product info relating to provisioning -->
      <xs:element name="Provisioning" type="provisioningType"/>
      <!-- A general workflow could be anything. For example, a
          new-hire check-list, an apple pie recipe, or driving directions. -->
      <xs:element name="General" type="emptyType" minOccurs="0"/>
    </xs:choice>
    <!-- Jobs output directory is optional -->
    <xs:element name="jobsOutputDirectory" type="nonNullString" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>

<workflowInfo>
  <workflowID>simpleSample</workflowID>
  <workflowDefaultName>Default Workflow Name</workflowDefaultName>
  <workflowDescription>A simple workflow with only one step</workflowDescription>
  <workflowVersion>1.0</workflowVersion>
  <vendor>IBM</vendor>
  <General/> <!-- This element is optional. It is empty, by default. -->
  <jobsOutputDirectory>/u/IBMUSER/jobFiles</jobsOutputDirectory>
</workflowInfo>
```

Workflow

- Support saving jobs output in user defined directory (cont.)

- New field “*Save jobs output*” is added in “Create Workflow” dialog.
- The checkbox is unchecked by default if “jobsOutputDirectory” is not defined in the workflow definition file.

Create Workflow

Location (system) of definition and variable input files:
DUMBPLEX.DUMBNODE (DUMBNODE_003)

Workflow definition file:
[/Users/lbt/IBM/V2R4EcDev/IzuW...flow_sample_parallel_steps.xml](#)

Description:
Sample that demonstrates the use of save job output files in a workflow.

Vendor: IBM Version: 1.0 Is Callable: Cannot be called by another workflow

* Workflow name:

* Owner user ID: * System (where workflow steps will be performed):

Comments:

* Access([Learn More](#)):

☒ Save jobs output
Jobs output directory:



☒ Open workflow on finish ☐ Assign all steps to owner user ID

Workflow

- Support saving jobs output in user defined directory (cont.)

- The jobs output directory is displayed in Workflow Details panel.

Workflow Details

Description: Sample that demonstrates the use of save job output files in a workflow.	Owner: zosmfad	System: DUMBPLEX.DUMBNODE (DUMBNODE_003)
Is Callable: Cannot be called by another workflow	Contains Parallel Steps: Yes	Percent complete: <div>0%</div>
Steps complete: 0 of 7	Status:  In Progress	Access (Learn More) :  Public
Workflow definition file: /Users/lbt/IBM/V2R4EclDev/IzuWorkflowBuild/sampleWorkflows/workflow_sample_parallel_steps.xml	System of workflow definition file: DUMBPLEX.DUMBNODE (DUMBNODE_003)	Jobs output directory: /Users/lbt/Desktop/testJobOutput

Workflow

- Support saving jobs output in user defined directory (cont.)

- The jobs output directory can be modified in the “Modify Workflow” dialog.

Modify Workflow

Description:
Sample that demonstrates the use of save job output files in a workflow.

Vendor: IBM Version: 1.0

* Workflow name:
Sample that demonstrates the use of save job output files in a workflow. - Workflow_7

* Owner user ID: zosmfad System: DUMBPlex.DUMBNODE (DUMBNODE_003)

Comments:

* Access([Learn More](#)):
Public

☒ Save jobs output
Jobs output directory:
/Users/lbt/Desktop/testJobOut

OK Cancel Help

Workflow

- Support saving jobs output in user defined directory (cont.)

- Jobs output directory/files naming convention

{jobs output directory}/{workflow name}/{job id}-{job name}-{DD name}-{job file id} YYYY-MM-dd HH-mm-ss

- Example:

The directory to save job output files:

/u/IBMUUSER/jobFiles/Sample save job files

The directory is made up of “user-specified path” and “workflow name” .

Filename ^

..

- ☐ JOB00062-IZUWF04-JESJCL-3 2020-01-15 10-37-14
- ☐ JOB00062-IZUWF04-JESMSGGLG-2 2020-01-15 10-37-14
- ☐ JOB00062-IZUWF04-JESYSMSG-4 2020-01-15 10-37-14
- ☐ JOB00062-IZUWF04-STDERR-106 2020-01-15 10-37-14
- ☐ JOB00063-IZUWF01-JESJCL-3 2020-01-15 10-40-18
- ☐ JOB00063-IZUWF01-JESMSGGLG-2 2020-01-15 10-40-18
- ☐ JOB00063-IZUWF01-JESYSMSG-4 2020-01-15 10-40-18
- ☐ JOB00064-IZUWF02-JESJCL-3 2020-01-15 10-41-50
- ☐ JOB00064-IZUWF02-JESMSGGLG-2 2020-01-15 10-41-50
- ☐ JOB00064-IZUWF02-JESYSMSG-4 2020-01-15 10-41-50

The job output file name:

"jobid"-"jobname"-"DD name"-"jobfile id" YYYY-MM-dd HH-mm-ss

Job output files for the step “subStep1”

Job output files for the step “subStep2”



Workflow

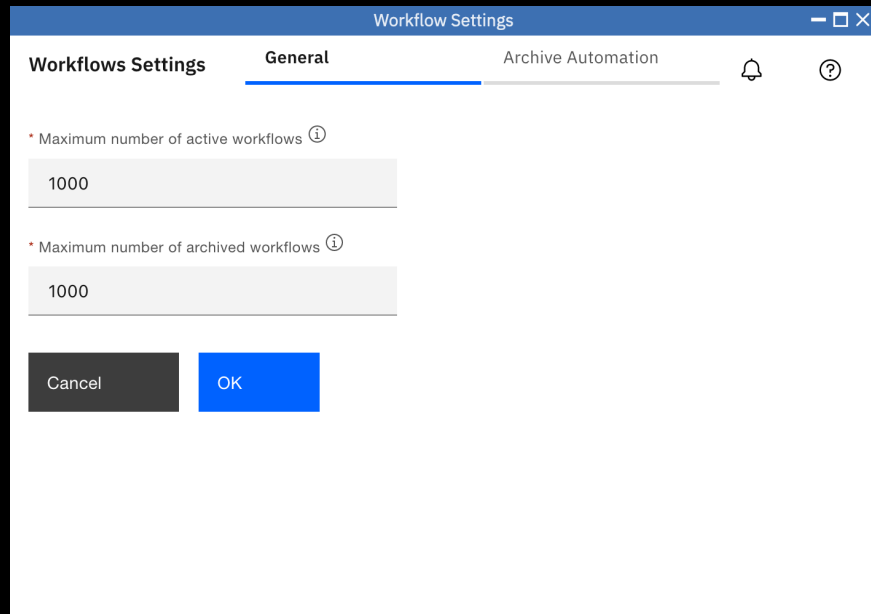
- Support saving jobs output in user defined directory (cont.)

- New optional parameter “jobsOutputDirectory” is supported in the following Rest APIs.

POST	/zosmf/workflow/rest/{version}/workflows	Create a workflow
GET	/zosmf/workflow/rest/{version}/workflowDefinition	Retrieve a workflow definition
GET	/zosmf/workflow/rest/{version}/workflows/{workflowKey}	Get the properties of a workflow

Workflow

- Extends the maximum number of active or archived workflows to 1000



The screenshot shows a 'Workflow Settings' dialog box with a blue title bar and standard window controls. It has two tabs: 'General' (selected) and 'Archive Automation'. The 'General' tab contains two input fields, both with the value '1000'. The first field is labeled '* Maximum number of active workflows' with a help icon. The second field is labeled '* Maximum number of archived workflows' with a help icon. At the bottom are 'Cancel' and 'OK' buttons.

Workflow Settings

Workflows Settings General Archive Automation

* Maximum number of active workflows ⓘ

1000

* Maximum number of archived workflows ⓘ

1000

Cancel OK

- The maximum number of active or archived workflows can be specified in Workflow Settings panel. An integer value from 200 to 1000 can be specified.

Workflow

- Type ahead search

- The workflow UI is changed to support typing in workflow definition and workflow variable input file with Angular based type ahead search
 - The type ahead search icon is added to the Workflows and Workflow Editor
 - The type ahead search is only available on local system. If the system is not local, the search icon is not displayed.

Edit Workflow Definition


☐ Create New Workflow

☒ Open Existing Workflow


 Type or enter name of the workflow definition file and, optionally, the variable input file. For each value, specify a sequential data set, a member of a partitioned data set (PDS), or a z/OS UNIX path and file name.

☐ Edit raw text of workflow definition

 * Workflow definition file:

Select or type


 Workflow variable input file:

Select or type


OK


Cancel

Help


Edit Workflow Definition dialog

Create Workflow


* Location (system) of definition and variable input files:

SVPLEX6.P01 (P01_001) - Local


 * Workflow definition file: ?

Select or type


 Workflow variable input file: ?

Select or type


< Back

Next >

Finish

Cancel

Help

Create Workflow dialog

Workflow

- Type ahead search (cont.)

- If the user types some initial value in the input box, then clicks the search icon, the initial value will be passed to the path selector window, and a file search will be performed automatically. If the user doesn't input any initial value in the input box, no value will be passed to the path selector window, and the file search will not be performed.

The diagram illustrates the process of performing a file search in the Workflow Definition File Search window. It shows two windows: 'Workflows' and 'Workflow Definition File Search'.

Workflows Window:

- The 'Create Workflow' dialog is open.
- The 'Location (system) of definition and variable input files:' is set to 'PLEX1.SY1 - Local'.
- The 'Workflow definition file:' input box has a red arrow pointing to it with the text 'type some initial value'.
- The 'Workflow variable input file:' input box has a red arrow pointing to it with the text 'then Click'.
- Buttons at the bottom include '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

Workflow Definition File Search Window:

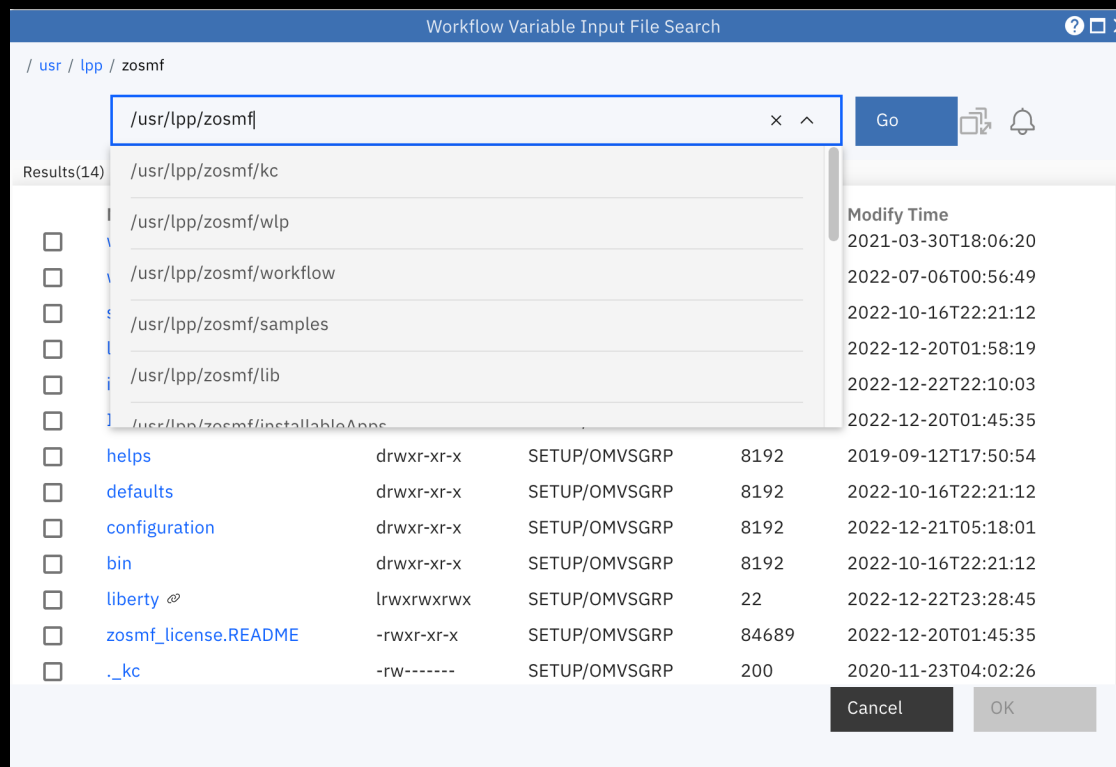
- The search path is '/tmp'. A red arrow points to the search input box with the text 'The "/tmp" is passed to here'.
- The search results are displayed in a table with columns: Name, Mode, Size, and Modify Time.
- The results are: inetd.stdout, inetd.stderr, cimserver.out, cimserver.err, and pev063.
- A red arrow points to the search results with the text 'A file search is performed, the results are displayed.'

A blue arrow points from the 'Workflows' window to the 'Workflow Definition File Search' window, indicating the flow of the process.

Workflow

- Type ahead search (cont.)

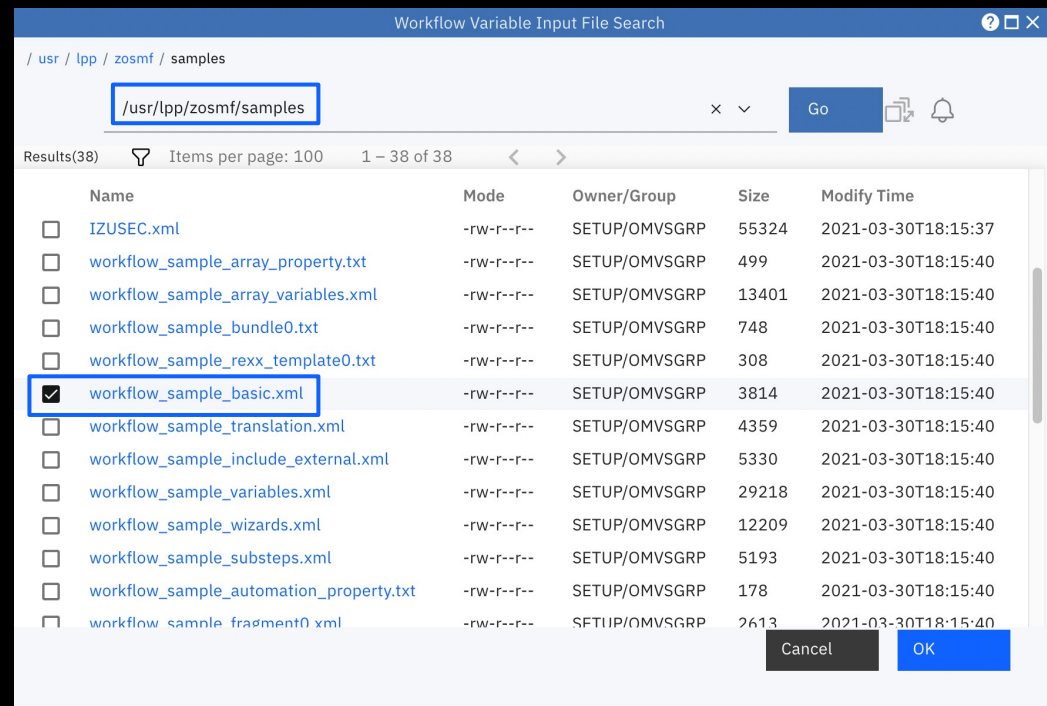
- The user can also type something in the input box. The content of the search input box dropdown list will be changed according to the input.



Workflow

- Type ahead search (cont.)

- When the user selects one path from the dropdown list and then clicks “Go” button, the related paths will be displayed on the UI, then the user can select one of them and click “OK” button, the path will be returned and displayed on the Workflow UI. The search dialog will be closed.





Workflow Editor

- Using z/OSMF Desktop Editor

- Inline template and file template can be opened in z/OSMF Desktop Editor

Step Details

Overview Prerequisites Instructions **Type** Conditions Security Variables Feedback Advanced

Step Type: Inline Template

* Submit Template As:
JCL

Max RC:
0

Max LRECL:

Template Contents:
//STEP1 EXEC PGM=IEFBR14
//SYSEXEC DD DUMMY
//* PRINT DD SYSOUT=A
/*

☐ Contains variable substitution

[Open in z/OSMF Desktop Editor](#)

Workflow Editor - submitEmptyJCL

Inline Template

```
1 //STEP1 EXEC PGM=IEFBR14
2 //SYSEXEC DD DUMMY
3 /* PRINT DD SYSOUT=A
4 /*
5
```

Cancel OK

Help

Workflow

- Display workflow definition name in workflow details panel

- “Workflow definition file” and “System of workflow definition file” are displayed in Workflow Details panel.

Workflow Details

Description:
Sample that demonstrates the use of save job output files in a workflow.

Is Callable:
Cannot be called by another workflow

Steps complete:
0 of 7

Workflow definition file:
/Users/lbt/IBM/V2R4EclDev/lzuWorkflowBuild/sampleWorkflows/workflow_sample_parallel_steps.xml

Owner:
zosmfad

Contains Parallel Steps:
Yes

Status:
In Progress

System of workflow definition file:
DUMBPLEX.DUMBNODE (DUMBNODE_003)

System:
DUMBPLEX.DUMBNODE (DUMBNODE_003)

Percent complete:
0%






Access([Learn More](#)):
Public

Jobs output directory:
/Users/lbt/Desktop/test.JobOutput

Workflow

- View the creation date and time of the workflow

- Workflow user can view the creation time of the workflow from the Workflows page.

Actions  Active 						
 No filter applied						
<input type="checkbox"/>	Workflow Name Filter	Description Filter	Owner Filter	System Filter	Status	Date Created(GMT) Filter
<input type="checkbox"/>	Sample workflow with translatable text - Workflow_0	Sample workflow with translatable text	ibmuser	DUMBPlex.DUMBNODE (DUMBNODE_003)	 In Progress	2020-05-14 00:04:09
<input type="checkbox"/>	Demo of variable mapping between calling workflow and called workflow. - Workflow_0	Demo of variable mapping between calling workflow and called workflow.	zosmfad	DUMBPlex.DUMBNODE (DUMBNODE_003)	 Complete	2020-05-30 11:20:46

Incident Log

- PDUU HTTPS Support

- Incident Log is enhanced to support sending diagnostic data to IBM through HTTPS using PDUU HTTPS options. The following 4 new IBM HTTPS server entries are added by default.

Incident Log

Incident Log > View Diagnostic Details > Send Diagnostic Data

Send Diagnostic Data

Welcome

Select FTP Server

Specify Security Settings

Select FTP Profile

Define Job Settings

Review FTP Information

Help

Select FTP Server

Select the FTP server to which you want to send the diagnostic data files.

Actions

4 of 17 items shown. Clear filter

Name contains "https"	Host Filter	Path Name Filter
<input type="radio"/> IBM-ecurep-mvs-pduu-https	www.secure.ecurep.ibm.com	/toibm/mvs
<input checked="" type="radio"/> IBM-ecurep-tivoli-pduu-https	www.secure.ecurep.ibm.com	/toibm/tivoli
<input type="radio"/> IBM-testcase-mvs-pduu-https	testcase.boulder.ibm.com	/toibm/mvs
<input type="radio"/> IBM-testcase-tivoli-pduu-https	testcase.boulder.ibm.com	/toibm/tivoli

Total: 4 Selected: 1


Refresh Last refresh: Feb 20, 2022, 2:57:18 PM local time (Feb 20, 2022, 6:57:18 AM GMT)

< Back Next > Finish Cancel

Incident Log

- PDUU HTTPS Support (cont.)

- SAF keyring name OR PKCS #11 token is required to connect to the HTTPS servers.



Incident Log

Incident Log > View Diagnostic Details > Send Diagnostic Data [Help](#)

Send Diagnostic Data

- ✓ Welcome
- ✓ Select FTP Server
- 👉 **Specify Security Settings**
 - Select FTP Profile
 - Define Job Settings
 - Review FTP Information

Specify Security Settings

If the FTP server requires logging in with a user ID and password, select *Specify a user ID and password* to enter these values. For transmissions to IBM, enter a cipher key to encrypt the data and add the key to the PMR so that IBM can decrypt it. For UNIX files, encryption and parallel FTP are not supported.

☐ Use anonymous user ID and password

☒ Specify a user ID and password

* User ID:

* Password:

Cipher key:

* Https key ring: ?

< Back Next > Finish Cancel

Incident Log

- PDUU HTTPS enhancement

- A new profile type “PDUU-HTTPS” is added for PDUU HTTPS proxy settings. If the profile is associated with the IBM HTTPS server, the proxy settings will be imported into Incident Log when sending data to IBM.

Incident Log > Send Diagnostic Data > Select FTP or PDUU Profile > Modify

Modify test

* Profile name:
test

Profile type:
☐ FTP ☐ SFTP ☒ PDUU-HTTPS

☒ Specify the firewall or proxy server settings

* Firewall host:
test

Firewall user ID:

Firewall port (must be between: 1-65535):
8080

* Firewall commands (maximum 4 lines, 80 characters per line):
proxyhost
8080
proxyuser
FTP_SERVER_FW_PASSWORD

OK Cancel

Incident Log > View Diagnostic Details > Send Diagnostic Data > Edit JCL

Edit JCL

SVC dump

Data Type	Sysplex	System
SVC dump	PLEX1	SY1

-----1-----2-----3-----4-----5-----6-----7-----8

```
PASSWORD=FTP_SERVER_PASSWORD
TARGET_DSN=SY1.D220928.USR.T085654
WORK_DSN_SIZE=100
CC_HTTPS=3
DIRECTORY=/toibm/mvs/
CASE=TS123456789
HTTPS_KEYRING=*AUTH/*
USE_HTTPS=Y
HTTPS_PROXY=proxyhost
HTTPS_PROXYPORT=8080
HTTPS_PROXYUSERNAME=proxyuser
HTTPS_PROXYPASSWORD=FTP_SERVER_FW_PASSWORD
/*
//STEP0070 ENDIF
//STEP0040 ENDIF
//STEP0020 ENDIF
/*
```

Undo All Changes

OK Cancel

Incident Log

- PDUU HTTPS enhancement (cont.)

- The HTTPS key ring can be specified in the PDUU HTTPS server definition, and the value can be used when sending diagnostic data to IBM in Incident Log. The end user doesn't have to manually input the value in Incident Log.

Incident Log

Incident Log > View Diagnostic Details > Send Diagnostic Data > View

View IBM-ecurep-mvs-pduu-https

FTP server name:
IBM-ecurep-mvs-pduu-https

Host:
www.secure.ecurep.ibm.com

Path name:
/tolbm/mvs

Port number (must be between: 1-65535):
[]

FTP or PDUU Profile:
☐ Use the default profile. Currently, the default profile is No Firewall or Proxy(FTP).
☐ Use the selected profile.
[]

☒ Use anonymous user ID and password.

Description:
[]

Transfer method:
☐ FTP
☐ SFTP (openSSH based secure FTP)
☐ z/OS Problem Documentation Upload Utility (Parallel FTP with optional encryption)
☒ z/OS Problem Documentation Upload Utility with HTTPS (PDUU with HTTPS)

Work data set size (MB):
100

Number of HTTPS sessions:
3

CEEOPDS DD statement:
ENVAR(GSK_V3_CIPHER_SPECS=3D38392F3233,GS
K_PROTOCOL_TL SV1_2=1)

Https keyring:
"AUTH"

Close

Incident Log

Incident Log > View Diagnostic Details > Send Diagnostic Data

Send Diagnostic Data

- ✓ Welcome
- ✓ Select FTP Server
- ➡ Specify Security Settings
- ✓ Select FTP Profile
- ✓ Define Job Settings
- ✓ Review FTP Information

Specify Security Settings

If the FTP server requires logging in with a user ID and password, select *Specify a user ID and password* to enter these values. For transmissions to IBM, enter a cipher key to encrypt the data and add the key to the PMR so that IBM can decrypt it. For UNIX files, encryption and parallel FTP are not supported.

☐ Use anonymous user ID and password
☒ Specify a user ID and password ?

* User ID:
test

* Password:

Cipher key:
[]

* Https key ring: ?
"AUTH"

< Back Next > Finish Cancel

Incident Log

- PDUU HTTPS enhancement (cont.)

- The CEEOPTS DD statement can be specified in the PDUU HTTPS server definition, and the value can be used when sending diagnostic data to IBM in Incident Log. The end user doesn't have to manually edit the JCL in Incident Log.

Incident Log

Incident Log > View Diagnostic Details > Send Diagnostic Data > Modify

Modify IBM-ecurep-mvs-pduu-https

* FTP server name:
IBM-ecurep-mvs-pduu-https

* Host:
www.secure.ecurep.ibm.com

* Path name:
/oibm/mvs

Port number (must be between: 1-65535):
100

FTP or PDUU Profile:
☒ Use the default profile. Currently, the default profile is No Firewall or Proxy(FTP).
☐ Use the selected profile.
 Select...

☒ Use anonymous user ID and password.

Description:
 Description:

Transfer method:
☐ FTP
☐ SFTP (openSSH based secure FTP)
☐ z/OS Problem Documentation Upload Utility (Parallel FTP with optional encryption)
☒ z/OS Problem Documentation Upload Utility with HTTPS (PDUU with HTTPS)

* Work data set size (MB):
100

* Number of HTTPS sessions:
3

CEEOPTS DD statement:
 ENVAR(GSK_V3_CIPHER_SPECS=3D38392F3233,GS
 K_PROTOCOL_TLVS1_2=1)

Https keyring:
 keyring from server definition

OK Cancel

Incident Log

Incident Log > View Diagnostic Details > Send Diagnostic Data > Edit JCL

Edit JCL

SVC dump

Data Type	Sysplex	System
SVC dump	PLEX1	SY1

-----1-----2-----3-----4-----5-----6-----7-----8

```




/**
/** VIEW JCL MAY SHOW BBB.CCC IN THE PMR NUMBER.SEE IZUP841W FOR DETAILS
//FTP EXEC PGM=IKJEFT1B,REGION=50M
//SYSPROC DD DSN=66PDS,DISP=(OLD,PASS)
//SYSTSPT DD SYSOUT=*
//SYSTSIN DD *
%PDW 4
**
//CEEOPTS DD *
  ENVAR(GSK_V3_CIPHER_SPECS=3D38392F3233,GSK_PROTOCOL_TLVS1_2=1)
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
TARGET_SYS=www.secure.ecurep.ibm.com
USERID=test
PASSWORD=FTP_SERVER_PASSWORD
TARGET_DSN=SY1.D220928.USR.T085654
WORK_DSN_SIZE=100
  
```

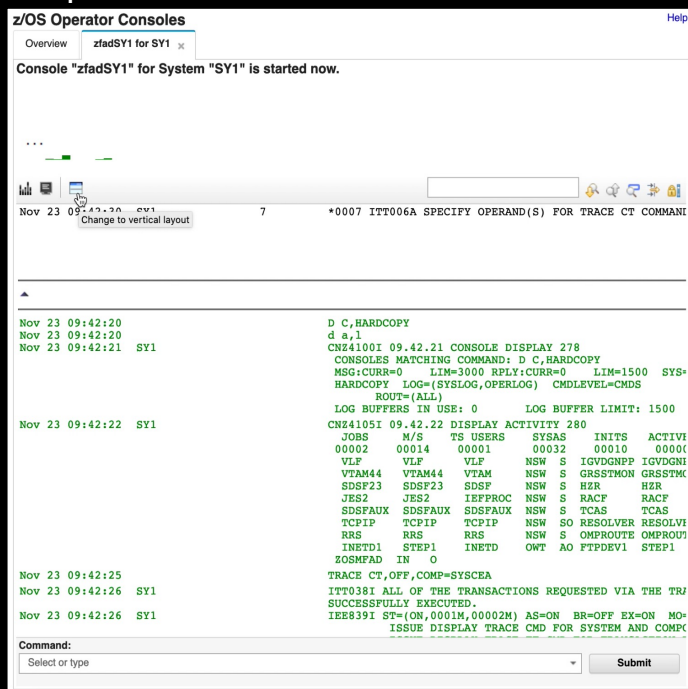
Undo All Changes

OK Cancel

Operator Console

- Support for bigger view of WTOR/HOLD messages

- In the Console tab of z/OS Operator Consoles task, you can use the WTOR icon  in the control bar to show and hide the “WTOR and HOLD view”. After it is shown, you can use the Layout icon  or  in the control bar to display the “WTOR and HOLD view” vertically or horizontally. The selection can be persisted.



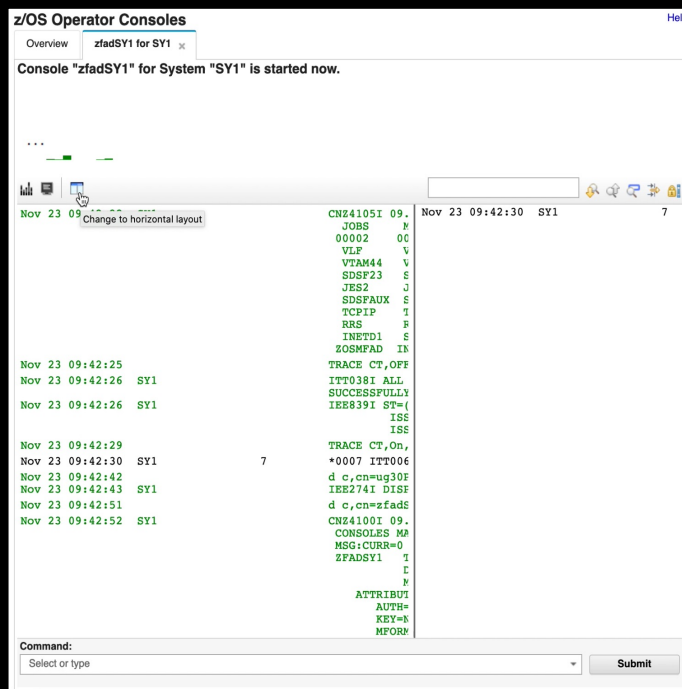
z/OS Operator Consoles

Overview zfadSY1 for SY1

Console "zfadSY1" for System "SY1" is started now.

Nov 23 09:42:20 D C,HARDCOPY
Nov 23 09:42:20 d a,l
Nov 23 09:42:21 SY1 CNZ4100I 09.42.21 CONSOLE DISPLAY 278
CONSOLES MATCHING COMMAND: D C,HARDCOPY
MSG:CURR=0 LIM=3000 RPLY:CURR=0 LIM=1500 SYS=HARDCOPY LOG=(SYSLOG,OPERLOG) CMDLEVEL=CMDS ROUT=(ALL)
LOG BUFFERS IN USE: 0 LOG BUFFER LIMIT: 1500
Nov 23 09:42:22 SY1 CNZ4105I 09.42.22 DISPLAY ACTIVITY 280
JOBS M/S TS USERS SYSAS INITS ACTIVI
00002 00014 00001 00032 00010 00004
VLF VLF VLF NSW S IGVDGNPP IGVDGNI
VTAM44 VTAM44 VTAM NSW S GRSSTMON GRSSTKM
SDSF23 SDSF23 SDSF NSW S HZR HZR
JES2 JES2 IEPPROC NSW S RACP RACP
SDSFAUX SDSFAUX SDSFAUX NSW S TCAS TCAS
TCP/IP TCP/IP TCP/IP NSW SO RESOLVER RESOLVI
RRS RRS RRS NSW S OMPROUTE OMPROUT
INETD1 STEP1 INETD OWT AO FTFDEV1 STEP1
ZOSMFAD IN 0
Nov 23 09:42:25 TRACE CT,OFF,COMP=SYSCSA
Nov 23 09:42:26 SY1 ITT038I ALL OF THE TRANSACTIONS REQUESTED VIA THE TRU
SUCCESSFULLY EXECUTED.
Nov 23 09:42:26 SY1 IEE839I ST=(ON,0001M,00002M) AS=ON BR=OFF EX=ON MO=ISSUE DISPLAY TRACE CMD FOR SYSTEM AND COMPC

Command: Select or type Submit



z/OS Operator Consoles

Overview zfadSY1 for SY1

Console "zfadSY1" for System "SY1" is started now.

Nov 23 09:42:20 D C,HARDCOPY
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CONSOLES MATCHING COMMAND: D C,HARDCOPY
MSG:CURR=0 LIM=3000 RPLY:CURR=0 LIM=1500 SYS=HARDCOPY LOG=(SYSLOG,OPERLOG) CMDLEVEL=CMDS ROUT=(ALL)
LOG BUFFERS IN USE: 0 LOG BUFFER LIMIT: 1500
Nov 23 09:42:22 SY1 CNZ4105I 09.42.22 DISPLAY ACTIVITY 280
JOBS M/S TS USERS SYSAS INITS ACTIVI
00002 00014 00001 00032 00010 00004
VLF VLF VLF NSW S IGVDGNPP IGVDGNI
VTAM44 VTAM44 VTAM NSW S GRSSTMON GRSSTKM
SDSF23 SDSF23 SDSF NSW S HZR HZR
JES2 JES2 IEPPROC NSW S RACP RACP
SDSFAUX SDSFAUX SDSFAUX NSW S TCAS TCAS
TCP/IP TCP/IP TCP/IP NSW SO RESOLVER RESOLVI
RRS RRS RRS NSW S OMPROUTE OMPROUT
INETD1 STEP1 INETD OWT AO FTFDEV1 STEP1
ZOSMFAD IN 0
Nov 23 09:42:25 TRACE CT,OFF,COMP=SYSCSA
Nov 23 09:42:26 SY1 ITT038I ALL OF THE TRANSACTIONS REQUESTED VIA THE TRU
SUCCESSFULLY EXECUTED.
Nov 23 09:42:26 SY1 IEE839I ST=(ON,0001M,00002M) AS=ON BR=OFF EX=ON MO=ISSUE DISPLAY TRACE CMD FOR SYSTEM AND COMPC

Command: Select or type Submit

Operator Console

- Support for bigger view of WTOR/HOLD messages (cont.)

- To increase the size of the “WTOR and HOLD view” so that you can see more messages, you can use the mouse pointer to drag the horizontal line or vertical line.

z/OS Operator Consoles

Overview zfadSY1 for SY1

Console "zfadSY1" for System "SY1" is started now.

Nov 23 09:42:30 SY1 7 *0007 ITT006A SPECIFY OPERAND(S) FOR TRACE CT COMMAND

Nov 23 09:42:22 SY1 CNZ4105I 09.42.22 DISPLAY ACTIVITY 280

WTOR and HOLD messages are above this line.

Nov 23 09:42:25 SY1

Nov 23 09:42:26 SY1

Nov 23 09:42:26 SY1

Nov 23 09:42:29 SY1

Nov 23 09:42:30 SY1 7

Nov 23 09:42:42 SY1

Nov 23 09:42:43 SY1

Nov 23 09:42:51 SY1

Nov 23 09:42:52 SY1

Command: Select or type Submit

z/OS Operator Consoles

Overview zfadSY1 for SY1

Console "zfadSY1" for System "SY1" is started now.

Nov 23 09:42:22 SY1 CNZ4105I 09.42.22 DISPLAY ACTIVITY 280

Nov 23 09:42:25 SY1

Nov 23 09:42:26 SY1

Nov 23 09:42:26 SY1

Nov 23 09:42:29 SY1

Nov 23 09:42:30 SY1 7

Nov 23 09:42:42 SY1

Nov 23 09:42:43 SY1

Nov 23 09:42:51 SY1

Nov 23 09:42:52 SY1

Command: Select or type Submit

CFRM Policy Editor

- Export policy to CSV file

Export the whole policy:

CFRM Administrative Policies

Actions

- Open in CFRM Policy Editor
- View Content
- Rename...
- Copy...
- Export...
- Export to CSV...**
- Activate...
- Compare...
- Delete...
- New...
- Import...
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts

	Last Updated (UTC) Filter	Updated By Filter
	02/07/2020 07:18:36	IBMUSER
	03/08/2001 20:11:20	IBMUSER
	03/08/2001 20:11:20	IBMUSER
	03/08/2001 20:11:20	IBMUSER

Refresh



	A	B	C	D	E	F	G	H
1	CF Name	Machine Typ	Manufacture	Plant	Sequence Nu	Partition	Dump Space	Site
2	A01	00SES1	XXX	XX	XXXXXXXXXX	0	4K	-
3	LF01	00ND01	XXX	XX	XXXXXXXXXX	0	4K	-
4	LF01N	SIMDEV	IBM	EN	ND01000000	0	4K	-

OR export selected CF/Structures:

Coupling Facilities

CF Structures

58 items selected

Delete Modify Export to CSV Cancel

	Structure Name	Maximum Size	Initial Size	Minimum Size	Preference List	Exclusion List	Duplexing Options
<input checked="" type="checkbox"/>	A_test1	1000K	-	-	A_LF01	-	ALLOWED,CROS
<input checked="" type="checkbox"/>	A_test2	1000K	-	-	A_LF01	-	ALLOWED
<input checked="" type="checkbox"/>	A_test3	1000K	-	-	A_LF01	-	-

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Structure Na	Maximum Siz	Maximum Siz	Initial Size	Initial Size in	Minimum Siz	Minimum Siz	Preference Li	Exclusion List	Duplexing Op	Allow Autom	Full Threshold	Encrypt
2	BIGONE01	13000K	13000	12000K	12000	-	-	0 TESTCF,TESTI	-	-	-	-	-
3	CACHE01	2M	2048	1000K	1000	-	-	0 LF01,LF01N,L	-	-	-	-	-
4	CACHE02	2M	2048	1000K	1000	-	-	0 LF01,LF01N,L	-	-	-	-	-
5	CACHE12	2M	2048	1000K	1000	-	-	0 TESTCF,TESTI	-	-	-	-	-

WebISPF

- Support global settings

- Support saving the WebISPF settings as Global Settings which can be reused by all users.

z/OSMF ISPF User Settings

Global Preferences
Load Global Settings
☐ On completion, make your ISPF settings the global values for all users.

ISPF Settings
Ctrl key as Enter key takes effect immediately after pressing the OK or Apply buttons.
Other settings take effect when you start (or restart) ISPF. Color selections also take effect at the next z/OSMF ISPF page refresh.
☒ Show settings dialog with every logon.
☐ Enable Ctrl key as Enter key.

Logon procedure:

Region size (kilobytes):

Account number:

Security Configuration Assistant

- Validate security for z/OSMF Nucleus and SCA before first starting z/OSMF

- JCL IZUSECJL and PROC IZUSECSV are provided to validate if the necessary security profiles are set up properly after running job IZUNUSEC or before starting the z/OSMF server
- The validation includes
 - if the z/OSMF started task ID has the needed authorization to the security profiles for the z/OSMF nucleus
 - if a specified user has the needed authorization to the security profiles for z/OSMF Security Configuration Assistant

SYS1.SAMPLIB(IZUSECJL) :

```

-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----
1  //IZUSECJL JOB MSGCLASS=C,MSGLEVEL=(1,1),USER=XXXXXXX,NOTIFY=XXXXX
2  //*****
3  /** PROPRIETARY STATEMENT:
4  /** Licensed Materials - Property of IBM
5  /** 5650-Z05
6  /** Copyright IBM Corp. 2022
7  /**
8  /** Status = HSMA250
9  /**-----
10 /**
11 /** DESCRIPTIVE NAME:
12 /**   z/OSMF Security Validation
13 /**
14 /**   The JCL is intended to be referred for Security Validation.
15 /**
16 /*******
17 //D0      EXEC PROC=IZUSECSV,
18 //          ROOT='/usr/lpp/zosmf', /* zOSMF install root */
19 //          USERDIR='/tmp', /* tmp dir */
20 //          TRACE=N, /* Trace option */
21 //          OUTCLS='*', /* Sysout class */
22 //          IZUPRM='NONE', /* Parmlib suffixes */
23 //          USERID='NOT_SPECIFIED', /* User ID validated */
24 //          LOGLEVEL='WARNING', /* LOG LEVEL */
25 //          SVRID='NOT_SPECIFIED' /* Server ID validated */
26

```

Desktop

- Changing password when it is expired

General Settings

General Settings Services Home Page

You can use this page to customize the header, footer, logo, and login failure messages. You can also use this page to customize the z/OSMF user interface. ⓘ

Home page header
Specify a text string up to 256 characters.

Specify a text string up to 256 characters.

Home page footer
Specify a text string up to 256 characters.

Specify a text string up to 256 characters.

Logo
The logo must be one of the following image formats: png, jpeg, jpg, gif, or ico. The logo must be 100x100 pixels and cannot exceed 1M in size.

Add file

☐ Display error details if the login attempt fails.

Restore Defaults Save

- Select this option if you want to see the details of error messages for an expired password or a revoked user ID. This option is not selected by default.

Desktop

- Changing password when it is expired (cont.)

- When the error details option is selected, you can change your password or passphrase in the logon panel if it is expired.

General Settings

General Settings Home Page

You can use this page to customize the header, footer, and the z/OSMF welcome page. You can also use this page to interface. ⓘ

Home page header
Specify a text string up to 256 characters.

Specify a text string up to 256 characters.

Home page footer
Specify a text string up to 256 characters.

Specify a text string up to 256 characters.

Logo
The logo must be one of the following image formats: png, gif, or jpg. The logo is limited to an area of 120x40 pixels and cannot exceed 120x40 pixels.

Add file

☒ Display error details if the login attempt fails.

Restore Defaults Save

IBM z/OS Management Facility

LEARN MORE NEED HELP?

Your current password or passphrase has expired, please reset your password or passphrase. X

Welcome to z/OS

The highly secure, scalable and resilient enterprise operating system for the IBM z Systems mainframe.

z/OS USER ID

zsmfad

z/OS PASSWORD

Change Password

LOG IN

Shopz IBM Support z Systems Redbooks z/OSMF home Page WCS Flashes and Techdocs z/OS home Page z/OS Knowledge Center

Change Password

z/OS USER ID *

z/OS CURRENT PASSWORD *

z/OS NEW PASSWORD *

z/OS CONFIRM PASSWORD *

Change Password

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Desktop

- REST Service to change user's password or passphrase

PUT

/zosmf/services/authenticate

Change user's Password

Request example:

```
{
  "userID": "ZOSMFT1",
  "oldPwd": "OLDZOSM",
  "newPwd": "NEWZOSM"
}
```

Response:

```
{
  "returnCode": "0",
  "reasonCode": "0",
  "message": "Success"
}
```



z/OSMF Log Files

- Checking z/OSMF Logs using Desktop Editor

Data Set and File Search

/ global / zosmf / IZUDFLT1 / data / logs

/global/zosmf/IZUDFLT1/data/logs

Go

Results(15) Items per page: 100 1 – 15 of 15

	Name	Mode	Owner/Group	Size	Modify T
<input type="checkbox"/>	IZUG0.log	-rw-r----	IZUSVR1/IZUADMIN	1148554	2023-01-02T07:38:49.480Z
<input type="checkbox"/>	IZUG1.log	-rw-r----	IZUSVR1/IZUADMIN	2103583	2022-12-31T01:46:37
<input type="checkbox"/>	IZUG2.log	-rw-r----	IZUSVR1/IZUADMIN	2101513	2022-12-31T01:46:08
<input type="checkbox"/>	IZUG3.log	-rw-r----	IZUSVR1/IZUADMIN	2104913	2022-12-31T01:46:08
<input type="checkbox"/>	IZUG4.log	-rw-r----	IZUSVR1/IZUADMIN	2097276	2022-12-31T01:46:08
<input type="checkbox"/>	IZUG5.log	-rw-r----	IZUSVR1/IZUADMIN	2097181	2022-12-31T01:46:08
<input type="checkbox"/>	IZUG6.log	-rw-r----	IZUSVR1/IZUADMIN	2099988	2022-12-31T01:46:08
<input type="checkbox"/>	IZUG7.log	-rw-r----	IZUSVR1/IZUADMIN	2106262	2022-12-31T01:46:08
<input type="checkbox"/>	IZUG8.log	-rw-r----	IZUSVR1/IZUADMIN	2107213	2022-12-31T01:46:08
<input type="checkbox"/>	IZUG9.log	-rw-r----	IZUSVR1/IZUADMIN	2108678	2022-12-31T01:46:08

IZUG0.log

/global/zosmf/IZUDFLT1/data/logs/IZUG0.log

2023-01-02T07:38:49.480Z | com.ibm.zosmf.consoles.console.ConsoleHouseKeepingTask | HKT | R

[tx:]

2023-01-02T07:32:49.480Z | com.ibm.zosmf.consoles.console.ConsoleHouseKeepingTask | HKT | R

INFO:Run HKT for 7072 time

[tx:]

2023-01-02T07:34:49.479Z | com.ibm.zosmf.consoles.console.ConsoleHouseKeepingTask | HKT | R

INFO:Run HKT for 7073 time

[tx:]

2023-01-02T07:36:49.480Z | com.ibm.zosmf.consoles.console.ConsoleHouseKeepingTask | HKT | R

INFO:Run HKT for 7074 time

[tx:]

2023-01-02T07:38:49.479Z | com.ibm.zosmf.consoles.console.ConsoleHouseKeepingTask | HKT | R

INFO:Run HKT for 7075 time

[tx:]

2023-01-02T07:40:49.480Z | com.ibm.zosmf.consoles.console.ConsoleHouseKeepingTask | HKT | R

INFO:Run HKT for 7076 time

[tx:]

2023-01-02T07:42:49.479Z | com.ibm.zosmf.consoles.console.ConsoleHouseKeepingTask | HKT | R

INFO:Run HKT for 7077 time

[tx:]

Appendix

Leverage [z/OSMF Value Proposition chart](#) to determine what plugin/service you would like to enable

Incident Log

Use Case	Without Incident Log	With Incident Log
Recognizing a system-detected (dumped) problem occurred	<ul style="list-style-type: none"> Requires 5 to 7 manual steps, Skill in effective use of IPCS to extract data from each of the dumps. <p>Up to 5-6 minutes</p>	<ul style="list-style-type: none"> Display in 1 click. Greatly reduced skill required <p>As little as 5 seconds</p>
Allow new dump to be taken for the same symptom	<ul style="list-style-type: none"> Requires 7 to 12 manual steps Skill in effective use of IPCS to extract data from each of the dumps. <p>Up to 15 minutes</p>	<ul style="list-style-type: none"> Make the update happen in 3 mouse clicks
Collecting and sending diagnostic data	<ul style="list-style-type: none"> Requires 7 to 12 manual steps Skill in effective use of IPCS to extract data from each of the dumps. <p>Up to 20 minutes</p>	<ul style="list-style-type: none"> Make the update happen in 3 mouse clicks <p>Up to 30 minutes</p>

Network Configuration Assistant

Use Case	Without Network Configuration Assistant (using Policy Agent only)	With Network Configuration Assistant
Filter unwanted network traffic from your z/OS system	<ul style="list-style-type: none"> Learn how to set up IP filters Review the IP Configuration Guide Configure the Policy Agent application Create configuration policy for IP Filter rules Configure default filter rules in the TCP/IP profile Configure the TRMD application Configure the Syslogd application <p>Hours (or even days for initial setup)</p>	<ul style="list-style-type: none"> Configuration Assistant provides guidance Go to IP Security Perspective Add a connectivity rule for an IP Filter Use Application Security configuration and deployment The Configuration Assistant deploys the configuration <p>As little as 30 minutes</p>
Secure your TN3270 server connections with TLS	<ul style="list-style-type: none"> Manual process Review the IP Configuration Guide Configure the Policy Agent application Configure TTLS in the TCP/IP profile Configure the Syslogd application Create configuration policy for AT-TLS for your TN3270 Server <p>Hours (or even days for initial setup)</p>	<ul style="list-style-type: none"> Configuration Assistant provides guidance Go to AT-TLS Perspective Select the AT-TLS configuration and deployment The Configuration Assistant deploys the configuration <p>As little as 30 minutes</p>

Security Configuration Assistant

Use Case	Without Security Configuration Assistant	With Security Configuration Assistant
Discover security requirement for specific function/product/solution	<ul style="list-style-type: none"> Look up the information from the product's setup or configuration book or online help Cross-book references can be a challenge if a solution references several products <p>Minutes to Hours</p>	<ul style="list-style-type: none"> A flexible, well-organized and browser-based Web UI that displays the security requirements at once from top to bottom by function/product/solution The JSON format is used to document the security requirements. JSON is an industry standard with education and skill widely available <p>Seconds</p>
Investigate if security requirement of specific function/product/solution is satisfied	<ul style="list-style-type: none"> Enter commands one by one to verify the security requirement It takes some time when there are many security requirements for a product Manual steps may have to be repeated across different products or the user may create a custom script for each product. <p>Minutes to Hours</p>	<ul style="list-style-type: none"> 1 click from browser-based Web UI to automatically check if security requirements are satisfied or not. Avoid repeated execution/failure/fix loops <p>Seconds</p>
Take care differences of all Enterprise Security Manager (ESM)	<ul style="list-style-type: none"> Normally user has to translate RACF commands into sample jobs for other non-RACF ESM products Then they need to issue commands of specific ESM accordingly to validate if security requirements are satisfied or not <p>Minutes to Hours</p>	<ul style="list-style-type: none"> 1 click to validate if security requirements are satisfied or not which is consistent among all ESM products. <p>Seconds</p>

Closing





Thank You!

