IBM Education Assistance for z/OS V2R1

Item: Dynamic Configuration for most Infoprint Server Options
Replace aopd.conf with Printer Inventory
Common Message Log to z/OS System Logger
z/OS Font Collection

Element/Components: Infoprint Server
z/OS Font Collection

Material is current as of March 2013

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Trademarks

- See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.

Presentation Objectives

This session is designed to provide you information about new functions being added by Infoprint server and z/OS Font Collection in release V2R1. They are:

- Dynamic configuration to allow the changing of Infoprint Server configuration attributes on the fly.

- Moving configuration attributes from aopd.conf, aopmsg.conf and some environment variable from aopstart EXEC into the Printer inventory as system configuration definitions.

- Moving of Infoprint Server common messages log data to MVS System Logger facility instead of storing the message log data in UNIX files.

- All z/OS fonts will be installed on the system with release V2R1.

Overview

Problem Statement / Need Addressed

- When changes are made to configuration attributes, Infoprint Server must be stopped and restarted before the configuration changes become active. Infoprint server needed to provide a mechanism to allow changing of configuration attributes without requiring a restart of Infoprint Server.

- Infoprint Server customizable configuration attributes reside in various configuration files and environment variables in aopstart EXEC. There is a need to consolidate these attributes.

- Infoprint Server common message log is stored as UNIX files and there are no established z/OS system logger functions for managing, saving, retrieving or archiving the common message log data.

- Customers complain that they install global applications and print workloads and later learn that the necessary fonts are missing and need to be ordered separately.

Overview

Solution

- Infoprint Server will now provide function to dynamically change several configuration attributes without requiring a restart of Infoprint Server daemons.

- Infoprint Server has moved several configuration attributes from aop.conf, aopmsg.conf and environment variable out of aopstart EXEC into Printer Inventory Manger as System configuration definitions. This function works in conjunction with dynamic configuration.

- New function is provided to move Infoprint Server common message log data to z/OS System Logger facility.

- IBM will ship z/OS Font Collection with release V2.1. The fonts include:
  - SBCS and DBCS raster and outline fonts
  - WorldType fonts which are TrueType & OpenType fonts

Overview

Benefit / Value

- Authorized administrators can easily update dynamic attributes using ISPF panels or Printer Inventory Definitions Utility (PIDU). The configuration attribute changes can take effect in most cases without requiring a restart of Infoprint Server.

- Configuration attributes in the system configuration definitions can be modified. In most cases, this can be done without requiring a restart of Infoprint Server.

- Infoprint Server messages can now be managed by the z/OS System Logger facility.

- Customers can install global applications and print workloads and be confident that any needed font is on the system.

Usage & Invocation

- Dynamic Configuration can be enabled by:

- Edit aopd.conf file and add 'dynamic-configuration = yes'. Save the aopd.conf file.

- If Infoprint Server is running, stop all daemons using AOPSTOP.

- Use AOPSTART to start Infoprint Server. When Infoprint Server starts, it will automatically create the system configuration definitions in the Printer Inventory.

- To verify that the dynamic configuration is enabled, use the Infoprint Server ISPF panels or PIDU to view the system configuration definitions in the Printer Inventory.

Usage & Invocation

- Editing Infoprint Server system configuration definitions:

- You can use Infoprint server ISPF panels or Printer Inventory Definition Utility (PIDU) to edit the system configurations attributes.

- Use ISPF to navigate to the Infoprint Server ISPF panel. Once there, choose option 8 – “Manage System Configuration”.

- Infoprint Server startup information can be viewed and changes can be made. Once the changes are complete, save the changes before exiting.

- If the change requires a restart Infoprint Server daemon, stop the daemon and restart that daemon for the change to take effect. See the Infoprint Server Customization publication (S544-5744) for more information.

Usage & Invocation

- Moving Infoprint Server messages to the z/OS System Logger facility:

- Deciding what type of log stream to use. Two types of log streams are available:
  - **DASD-only log streams** - Suitable for single system configurations or to keep logs separate for each instance of Infoprint Server in a sysplex

  - **Coupling-facility log streams** - Suitable when running multiple instances of Infoprint Server in a sysplex and there is a need to view the merged log using aoplogu from each instance system of Infoprint Server

- Log stream naming convention:

AOP.MSG.SYSA	DASD-only log stream name for SYSA
AOP.MSG.SYSB	DASD-only log stream name for SYSB
AOP.MSG	Coupling facility log stream names

Usage & Invocation

Moving Infoprint Server messages to the z/OS System Logger facility:

Create and configure System Logger log stream (see notes below):

Activate the log stream in Infoprint Server:

- Use ISPF to navigate to the Infoprint Server ISPF panels. Once there, choose option 8 – “Manage System Configuration”

- Specify the name of the log stream in Log stream name field
Log stream name (example: AOP.MSG).

- To validate that Infoprint Server has connected to a log stream, print a job and display the connection status of the log stream.
(console command example: DISPLAY LOGGER,CONN,LSN=AOP.MSG)
You should see a status of IN USE for AOP.MSG log stream.

Usage & Invocation

z/OS Font Collection:

- Where are the fonts found?
  - AFP outline fonts
    SYS1.SFNTILIB
  - 240-pel AFP raster fonts
    SYS1.FONTLIBB
  - 240-pel Chinese, Japanese, Korean(CJK) raster fonts
    SYS1.SFONDLIB
  - 300-pel AFP raster fonts
    SYS1.FONT300
  - PSF Compatiblity fonts - *SYS1.FONTLIB*

  - WorldType fonts and symbolic links are found in UNIX files in the following directory location:
    /usr/lpp/fonts/worldtype

Interactions & Dependencies

- Software Dependencies
  - None
- Hardware Dependencies
  - None
- Exploiters
  - Infoprint server users, PSF users (for Font Collection)

Migration & Coexistence Considerations

- z/OS Font Collection introduces a new outline font library – *SYS1.SFNTILIB* that replaces *SYS1.FONTOLN* from previous font products. You may need to replace references to SYS1.FONTOLN with SYS1.SFNTILIB.
- Applications that may be affected include:
  - Print Services Facility (PSF)
    Look in the PSF startup procedures for the references.
  - IBM Print Transform from AFP to PCL, PDF, and PostScript for Infoprint Server for z/OS
    Look for references in the transform configuration file (AOPXFD.CONF)
  - AFP Conversion and Indexing Facility (ACIF)
    Look at the FONTLIB DD statement.
- The complete set of fonts are installed which require more space – approx 2000 cyl for target PDS/PDSE, 2000 cyl file system, 4000 cyl DLIB.

Presentation Summary

- Infoprint Server customers can now:

- View and manage configuration attributes using Infoprint server ISPF panels or PIDU.

- Dynamically make changes to Infoprint Server configuration attributes without the need to stop and restarted Infoprint daemons.

- Utilize the z/OS common message log function for managing Infoprint Server messages.

- z/OS Font collection customers can now:

- Be confident that all fonts will be available on the system without the need to install additional font products.

Appendix

- Infoprint Server Customization publication (S544-5744)
- z/OS Font Collection (GA32-1048)
- Program Directory (GI11-9848)