LRS Enhancements
Version 2 Release 1.1

Overview

This document contains a high-level overview of the major V2 R1.1 enhancements to the LRS EOM products. More specific information can be found in the manuals for each respective product.

LRS/Spool V2 R1.1

LRS/Spool is a high performance spooling system that provides an alternative to using the JES2|JES3 spool. LRS/Spool provides the following benefits:

- High performance.
- JES independence.
- Guaranteed first-in-first-out (FIFO) delivery.
- Elimination of JES2 MAS performance issues.
- Coexists with JES2|JES3 (you can use both at the same time).
- Simple to implement and use.

LRS/Spool executes as a separate started task and uses TCP/IP to communicate with both VPS and DRS. This allows the LRS/Spool system to reside on a separate MVS image from VPS and/or DRS.

AFP V2 R1.1

VPS/IPDS

- Support for IOB and data descriptor full color (X'4E' Triplet) (BCOCA, GOCA, IOCA).

VPS/PCL

- Support for IOCA FS42 bi-level images.
- Support for transparency masks for FS42/45 images.
- Support for TIFF LZW compression in FS45 images.
- Support for additional Object Containers: TIFF, 16 and 32-BPP bitmaps with bitfield compression, more robust JPEG (OBJ Container).
- Support for IOB and data descriptor full color (X'4E' Triplet) (BCOCA, GOCA, IOCA).
- Support for data matrix encodation scheme selection.
- Support for Royal Mail RED TAG bar code.
- Support for Code 93 bar code.

VPS/PDF

- Support for IOCA FS42 bi-level images.
- Support for transparency masks for FS42/45 images.
- Support for JPEG images.
- Support for IOB and data descriptor full color (X'4E' Triplet) (BCOCA, GOCA, IOCA).
- Support for Royal Mail RED TAG bar code.
- Support for Code 93 bar code.
- Support for PTOCA Overstrike control.
- Support for GOCA Bezier control.

DMCF V2 R1.1

DMCF Support for LRS/Spool

DMCF provides display and modify services for print datasets stored on the LRS/Spool.

DRS V2 R1.1

DRS/VPI Support for LRS/Spool

DRS can now create print datasets on the LRS/Spool as well as the JES spool. All the SYSOUT and OUTPUT statement attributes can be specified when the LRS/Spool dataset is created and those attributes will be used by VPS in the same way as they would be when VPS is printing a JES dataset. The datasets are created on the LRS/Spool based on the print directory name specified in the DRS/VPI printer member.

System Notify

DRS/VPI now allows system level notification to be sent to one or two email users or TSO users when certain system events occur.
There is also a DRS Notify command that makes it possible for an operator to send a message to the email or TSO users specified in the DRS/VPI system initialization member.

Message Modification Changes

DRS has a new message type value that can be used to modify a message in order to place the message in the DRS log only; the message would not go to SYSLOG or be issued as a WTO.
Also, there is a new DRS/VPI MSGMOD command that allows an operator to display the message type, change the message type dynamically, or reset the message type to the default.

TCP/IP Enhancements

DRS/TCPIP now supports the UNIX System Services Application Programming Interface (USSAPI). This interface is intended to be independent of the release level of the operating system.

LRS/MVS Server V2 R1.1

LRS/MVS Server Support for LRS/Spool

The LRS/MVS Server can now connect to the LRS/Spool address space using a TCP/IP connection to provide services for VMCF, DMCF and Report Browse.

System Notify

The LRS/MVS Server now allows system level notification to be sent to one or two email users or TSO users when certain system events occur. There is also a new LRS/MVS Server Notify command that makes it possible for an operator to send a message to the email or TSO users specified in the System Initialization Member.

Message Modification Changes

The LRS/MVS Server has a new message type value that can be used to modify a message in order to place the message in the Server log only; the message would not go to SYS-LOG or be issued as a WTO. Also, there is a new MSGMOD command that allows an operator to display the message type, change the message type dynamically or reset the message type to the default.

TCP/IP Enhancements

LRS/MVS Server now supports the UNIX System Services Application Programming Interface (USSAPI). This interface is intended to be independent of the release level of the operating system.

LRS/Net V2 R1.1

Message Modification Changes

LRS/Net has a new message type value that can be used to modify a message in order to place the message in the LRS/Net log only; the message would not go to SYSLOG or be issued as a WTO.
Also, there is a new LRS/Net MSGMOD command that allows an operator to display the message type, change the message type dynamically, or reset the message type to the default.

TCP/IP Enhancements

LRS/Net now supports the UNIX System Services Application Programming Interface (USSAPI). This interface is intended to be independent of the release level of the operating system.

PageCenter V2 R1.1

- Added the creation of a Level-1 Vault and Level-2 Merge dataset copy for existing datasets without using the Vault Run.
- Added a new Level-1 Vault and Level-2 Merge occurrence usage percent retention for determining when Vault/Merge datasets expire.
- Added retention to the Level-2 Merge occurrence definition for use during the Vault Run Merge process to determine when Level-2 Merge datasets expire.
- Added additional messages during the Vault Run Merge step M06 for easier determination on why a Vault Merge did not occur. Per Level-2 Merge occurrence, these messages will be written to the LRS/MVS Server log and the $VL Application in the %VPC Mailbox.
- Added Merge only (IM), Merge only Level-1Vault datasets (I1), and Merge only Level-2 Merge datasets (I2) Vault Run Start Frequencies.
- Added in the Level-2 Merge occurrence definition, the ability to define the maximum size of a new Level-2 Merge dataset.

VMCF V2 R1.1

VMCF Support for LRS/Spool

VMCF now provides display and modify functions for print datasets stored on the LRS/Spool.

Message Modification Changes

VMCF/VTAM has a new message type value that can be used to modify a message in order to place the message in the VMCF/VTAM log only; the message would not go to SYSLOG or be issued as a WTO.

Also, there is a new VMCF/VTAM MSGMOD command that allows an operator to display the message type, change the message type dynamically, or reset the message type to the default.

VPS V2 R1.1

VPS Support for LRS/Spool

VPS printers can now obtain print datasets from the LRS/Spool as well as the JES spool. All the SYSOUT and OUTPUT statement attributes can be specified when the LRS/Spool dataset is created and those attributes will be used in the same way they are used when VPS is printing a JES dataset. The datasets are selected from LRS/Spool based on the print directory name specified in the VPS printer member.

System Notify

VPS now allows system level notification to be sent to one or two email users or TSO users when certain system events occur. There is also a VPS Notify command that makes it possible for an operator to send a message to the email or TSO users specified in the VPS system initialization member.

Message Modification Changes

VPS has a new message type value that can be used to modify a message in order to place the message in the VPS log only; the message would not go to SYSLOG or be issued as a WTO. Also, there is a new VPS MSGMOD command that allows an operator to display the message type, change the message type dynamically, or reset the message type to the default.

TCP/IP Enhancements

VPS now supports the UNIX System Services Application Programming Interface (USSAPI). This interface is intended to be independent of the release level of the operating system.

TCP/IP LPD Support

There are nine new keywords that are used to set the values to be sent in the LPD control file. These keywords provide symbolic parameters that can be used to move fields from the JCL that created the print dataset or from the VPS printer definition member into the control file records. For example, setting LPDCNTL_J=&JOBNAME would indicate that the LPD control file record that begins with “J” should be sent with the job name from the JCL.

VPS/Email Support for AUTH LOGIN

VPS now allows specification of a USER ID and PASSWORD when sending email to a mail server. If requested and if the mail server provides AUTH LOGIN support, VPS will encode the USER ID and PASSWORD to send to the mail server before sending the email requests.

VPS Default Members

VPS now allows dynamic printer default members. If default members are requested to be dynamic in the VPS system initialization member, VPS reads the default members specified in the VPS printer definition members as they are needed. That means that these printer default members may be modified and new values obtained when a printer is activated. It also allows a VPS printer definition member to specify up to eight default members to be merged when the printer is activated.

Datastream Conversion Enhancements

VPS now allows a specific name to be specified for the conversion //PARMLIB member for VPS/LCDS conversions. This name will be used instead of the FORM or WRITER name in the JCL that created the print dataset. VPS now provides new options for PCL printers for color support, font processing, and fill pattern processing. In addition, there is a new printer keyword to specify PDF splitting options.