

# z/OS 2.4 IBM Education Assistant (IEA) TSO/E Education

**LOGON Timeout**

**Password Special Characters**

**MVSSERV Removal**

**LISTDSI Enhancements**

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# Agenda

- Trademarks
- Session Objectives
- Overview
- Usage & Invocation
- Migration & Coexistence Considerations
- Session Summary
- Appendix

# Trademarks

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

# Session Objectives

- Understand what changes were made to terminate stale LOGON sessions
  - Understand what verification needs to be done before migrating to V2R4
- Understand what changes were made to allow special characters in passwords being verified by TSO/E Parse Service Routine
- Understand changes made to remove MVSSERV and the Enhanced Connectivity Facility
  - Understand what verification needs to be done before migrating to V2R4
- Understand what changes were made to LISTDSI to return additional dataset information

# Overview – LOGON Timeout

- Who (Audience)
  - System Administrators and TSO users
- What (Solution)
  - LOGON sessions will automatically be terminated if prompting for LOGON information takes more than 5 minutes
- Wow (Benefit / Value, Need Addressed)
  - Issue: Users who start the LOGON process and do not complete it hold system resources and the only way to free them is to cancel the LOGON session. If many users do this, system resources can become constrained
  - Benefit: System resources allocated for a TSO/E user's LOGON are automatically freed after 5 minutes if prompting does not complete within that time

# Usage & Invocation – LOGON Timeout

The LOGON command now has a timeout value built into the prompting task. If prompting does not complete within 5 minutes, the LOGON session will be terminated and resources will be returned to the system

## New ABEND

*ABEND01A reason Code x'30' denotes that LOGON prompting took longer than 5 minutes and the LOGON session was terminated.*

## New Message

IKJ604I TSOLOGON TIMED OUT ,USERID {userid|UNKNOWN} , PROC {proc|UNKNOWN}

**Explanation:** LOGON prompting has taken longer than the system time out value.

**System Action:** The LOGON session is terminated with an ABEND01A-30. No dump is taken. Recovery routines that get control for this abnormal end should not retry.

**Operator Response:** None required. If there are many of these messages in a short period of time, notify the Security Administrator or System Programmer.

**Source:** Time Sharing Option/Extensions (TSO/E)

**Routing Code:** 2, 10

**Descriptor Code:** 4

# Overview – Password Special Characters

- Who (Audience)
  - Security/User Administrators
- What (Solution)
  - TSO/E Parse is updated to allow special characters in passwords
- Wow (Benefit / Value, Need Addressed)
  - Issue: With recent support, the major external security managers all support special characters in passwords. Although special characters can be entered on the TSO/E LOGON full screen panel, line mode LOGON will not accept those characters restricting their use.
  - Benefit: Special characters can be enabled in the external security manager and can be used in passwords in line mode LOGON.

# Usage & Invocation – Password Special Characters

- The LOGON command now allows special characters to pass to the security product for validation
  - *The current positional parameter in the LOGON command that accepts passwords no longer fails special characters*
  - The LOGON command will support “any” character in a password
  - *No changes made to the syntactical structure of the command*
- Parse Updates
  - IKJPOSIT USERID8 and UID82PWD are updated to let all characters (except for a few delimiters) through
  - IKJPOSIT USERID and UID2PSWD are unchanged, only allowing alphanumeric characters
  - Password processing for DSNNAME password is unchanged



# Overview – MVSSERV Removal

- Who (Audience)
  - System Administrators
- What (Solution)
  - Withdrawal SoD issued with V2R3 announce
  - TRACKER support shipped via PTFs to supported releases to flag usage of the MVSSERV command
  - Component 566528507 has been removed from TSO/E in V2R4
- Wow (Benefit / Value, Need Addressed)
  - Issue: Enhanced Connectivity Facility is not being used and is still installed and using resources on the system
    - Was introduced to allow OS/2 to communicate with the TSO/E environment
    - Also known as Server-Requester Programming Interface (SRPI)
    - VM dropped support for SRPI years ago
  - *Benefit: Support is not required for this component*

# Usage & Invocation – MVSSERV Removal

- The MVSSERV command is no longer available for use

# Overview – LISTDSI Enhancements

- Who (Audience)
  - Dataset Administrators, Application Developers
- What (Solution)
  - TSO/E LISTDSI is updated to return additional dataset characteristics
- Wow (Benefit / Value, Need Addressed)
  - Issue: With recent support, additional information is associated with datasets that cannot be retrieved easily in a CLIST or REXX Exec
  - Benefit: CLISTs and REXX Execs can retrieve additional dataset information

# Usage & Invocation – LISTDSI Enhancements

- The invocation of LISTDSI is unchanged
- *New variables will be set*

**SYSMAXGENS** - Maximum number of generations of a PDSE member that can be maintained. This number can be between 0 and 2147483647. This variable is only returned when the LISTDSI data set is a PDSE and the DIR operand of LISTDSI was also specified. In all other cases, this variable is not set.

**SYSDSVERSION** - Returns the PDSE data set version. By default, the original PDSE data sets were version 1. This variable is returned by LISTDSI for a PDSE data set when the DIR operand is also specified.

**SYSENCRYPT** - This variable returns the encryption status of a data set:

- a) 'YES' - if the data set is encrypted, or
- b) 'NO' - if the data set is not encrypted.

If SYSENCRYPT returns 'YES' then SYSKEYLABEL is also returned.

**SYSKEYLABEL** - This variable returns the encryption key label of an encrypted data set. It only returns information if SYSENCRYPT has been set to 'YES', indicating that the data set is encrypted. In all other cases, this variable is not set.

# Migration & Coexistence Considerations

## LOGON Timeout

Well behaved exits should already be structured to clean up any resources that they have allocated at time of an error. If any of the exits listed below are active on a system, ensure that anything allocated by the exit is returned to the system in the event of recovery getting control. Retry should not be done when the new ABEND is encountered.

- LOGON pre-prompt exit - *IKJEFLD/IKJEFLD1*
- LOGON pre-display exit - *IKJEFLN1*
- LOGON post-display exit - *IKJEFLN2*

# Migration & Coexistence Considerations

## MVSSERV Removal

- Before installing V2R4 you may want to track usage of the MVSSERV command
  - See APAR OA50655 for additional information

# Session Summary

- Updates regarding the following have been discussed
  - **LOGON Timeout**
  - **Password Special Characters**
  - **MVSSERV Removal**
  - **LISTDSI Enhancements**

# Appendix

- Book Updates
  - z/OS MVS System Codes
    - New reason code for ABEND 01A
  - z/OS MVS System Messages
    - New message IKJ604I
  - z/OS TSO/E Programming Services
    - Parsing info for IKJPOSIT USERID8 and UID82PWD
  - z/OS TSO/E Command Reference
    - Description of LOGON command positional *user\_identity/password/new\_password*
  - z/OS TSO/E Guide to the Server-Requester Programming Interface
    - Removed from library
  - z/OS TSO/E CLISTS
    - LISTDSI statement description describes new variables
  - z/OS TSO/E REXX Reference
    - LISTDSI statement description describes new variables
  - z/OS TSO/E REXX User's Guide
    - *Using the LISTDSI Function* section describes new variables