z/OS 3.1 IBM Education Assistant

Solution Name: Removal of OSA DEVICE/LINK/Home Configuration Support

Solution Name: Health Check for the Removal of OSA Device/Link/Home Configuration Support

Solution Element(s): Communications Server HIP6310

July 2023

Agenda

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Trademarks

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

Objectives

- Background information

- V2R5 Announcement:
  - Removal of OSA DEVICE/LINK/HOME configuration support
    - z/OS V2.5 is planned to be the last z/OS release to provide support for the TCP/IP profile statements DEVICE, LINK, and HOME for OSA connectivity. All z/OS users who currently use DEVICE, LINK, or HOME for OSA connectivity should migrate to the INTERFACE statement for defining OSA Express connectivity in their TCP/IP profile.
  - The LCS removal was announced along with the Link Station Architecture (LSA) removal, excerpted below:
    - With the support for OSE planned to be discontinued, support for the related VTAM and TCP/IP device drivers is also planned to be discontinued. IBM intends z/OS V2.5 to be the last z/OS release to provide support for LSA (SNA) and LCS (TCP/IP) devices.

Overview

Withdrawal of support for OSA Device/Link/Home configuration and LCS

- Who
  - Users who have Device/Link/Home statements defined for LCS or MPCIPA

```
****************************************************************
*   An example of DEVICE/LINK/HOME defining MPCIPA
****************************************************************
DEVICE QDIO4102 MPCIPA PRIROUTER
  LINK QDIO4102L IPAQENET QDIO4102
  HOME 172.16.1.2 QDIO4102L
  **************************************************************
*   An example of DEVICE/LINK/HOME defining LCS
****************************************************************
DEVICE O7ETHK0P LCS 2E30 NETMAN
  LINK O7ETHK0 ETHERNET 0 O7ETHK0P
  HOME 172.11.27.104 O7ETHK0
```

- What
  - The ability to define an MPCIPA DEVICE and associated LINK/HOME(s) has been removed in 3.1
  - The ability to define an LCS DEVICE has been removed in 3.1
  - Other DEVICE statements, such as those used by HiperSockets, are unaffected
- Wow
  - Recently, new z/OS Communications Server OSA features have been implemented on the INTERFACE statement only

Usage & Invocation

Withdrawal of support for OSA Device/Link/Home configuration and LCS

- If the previous example profile is applied on 3.1, the following (existing) messages would be issued:

```
EZZ0318I MPCIPA WAS FOUND ON LINE 8 AND DEVICE TYPE WAS
EXPECTED
EZZ0328I DEVICE QDIO4102 LINE 9 HAS NOT BEEN DEFINED OR HAS
BEEN DELETED
EZZ0328I LINK NAME QDIO4102L ON LINE 15 HAS NOT BEEN DEFINED
OR HAS BEEN DELETED
EZZ0318I LCS WAS FOUND ON LINE 8 AND DEVICE TYPE WAS EXPECTED
EZZ0328I DEVICE O7ETHK0P ON LINE 9 HAS NOT BEEN DEFINED OR
HAS BEEN DELETED
EZZ0328I LINK NAME O7ETHK0 ON LINE 15 HAS NOT BEEN DEFINED OR
HAS BEEN DELETED
```

Overview (Health Check)

Health Check for the Removal of OSA Device/Link/Home and LCS Configuration Support

- Who
  - Users who have Device/Link/Home statements defined for LCS or MPCIPA

- What
  - Health check APARs OA62208 and PH40875 were produced for V2R3, V2R4, and V2R5 customers to warn if they are still using DEVICE/LINK/HOME TCPIP profile statements for OSA-Express connectivity
  - Named ZOSMIGV2R5_NEXT_CS_OSADLH

- Wow
  - Recently, new z/OS Communications Server OSA features have been implemented on the INTERFACE statement only

Usage & Invocation (1)

Health Check for the Removal of OSA Device/Link/Home and LCS Configuration Support

- Heath Check Messages

    - ISTM053I DEVICE/LINK/HOME is not in use on this system for OSA-Express connectivity

    - ISTM054E DEVICE/LINK/HOME is in use on this system for OSA-Express connectivity

Usage & Invocation (2)

Health Check for the Removal of OSA Device/Link/Home and LCS Configuration Support

- ISTM054E System Programmer Response:

    Because DEVICE/LINK/HOME TCPIP/IP profile statements for OSA connectivity will no longer be supported in a future release of z/OS Communications Server, take the following steps:

    Check your TCP/IP profile for DEVICE, LINK, and HOME statements with a device type of MPCIPA and a link type of IPAQENET. Convert the statements to equivalent IPAQENET INTERFACE statements. For more information, see the topic "Steps for converting from IPv4 IPAQENET DEVICE, LINK, and HOME definitions to the IPv4 IPAQENET INTERFACE statement" in the IP Configuration Guide.

    Check your TCP/IP profile for DEVICE, LINK, and HOME statements that include the device type LCS. Make plans to migrate your legacy LCS definitions to use IPAQENET INTERFACE statements to access your LAN. See the topic "INTERFACE - IPAQENET OSA-Express QDIO interfaces statement" in the IP Configuration Reference.

Interactions & Dependencies

- Software Dependencies
  - None
    - The IBM Health Checker for z/OS framework is a part of base z/OS.

- Hardware Dependencies
  - No hardware dependencies

- Exploiters
  - No exploiters

Upgrade & Coexistence Considerations

- To exploit this solution, all systems in the Plex must be at the new z/OS level: **No**

- No considerations for Health Check for the Removal of OSA Device/Link/Home and LCS Configuration Support

- To exploit the Health Checker solution, Health Check APARs OA62208 and PH40875 have been produced for V2R3, V2R4, and V2R5

Installation & Configuration

- No installation and configuration items to note

Summary

- The ability to define an MPCIPA DEVICE and associated LINK/HOME(s) has been removed in 3.1

- The ability to define an LCS DEVICE has been removed in 3.1

- Health check ZOSMIGV2R5_NEXT_CS_OSADLH was produced to detect if the above interfaces are in use with your systems

Appendix

- For information on converting your IPv4 IPAQENET DEVICE, LINK, and HOME definitions to the IPv4 IPAQENET INTERFACE statement, see the topic "Steps for converting from IPv4 IPAQENET DEVICE, LINK, and HOME definitions to the IPv4 IPAQENET INTERFACE statement" in the IP Configuration Guide.

- For information on migrating your legacy LCS definitions to use IPAQENET INTERFACE statements to access your LAN, see the topic "INTERFACE - IPAQENET OSA-Express QDIO interfaces statement" in the IP Configuration Reference.