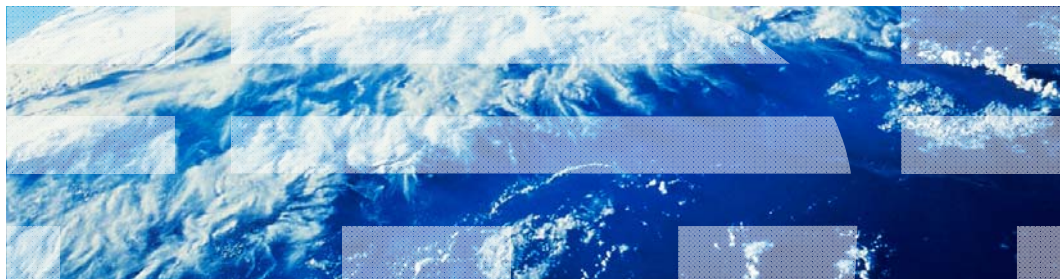


Communications Server for Data Center Deployment

AIX-specific SNA connectivity



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This presentation will discuss at a high level the types of connectivity that are available within the Communications Server for Data Center Deployment on AIX product.

SNA connectivity (1 of 2)

- Communications Server for Data Center Deployment on AIX (CS AIX) connectivity includes:
 - Enterprise Extender, High Performance Routing (HPR)
 - Dynamic route discovery
 - Non-disruptive session recovery
 - UDP using ports 12000 - 12004

Communications Server for Data Center Deployment on AIX connectivity includes Enterprise Extender and High Performance Routing functionality. These provide dynamic route discovery and non-disruptive session recovery, and use UDP transport over ports 12000 through 12004.

SNA connectivity (2 of 2)

- Logical Link Control 2 (LLC-2) SNA LAN
 - Ethernet or Token-Ring
 - Peer or Host connections
 - Downstream Gateway
 - Downstream Dependent Logical Unit Requester (DLUR)
- WAN
 - Synchronous Data Link Control (SDLC), X.25
 - Requires vendor-acquired adapters

Communications Server also provides LLC-2 SNA over LAN functionality using Ethernet or Token-Ring to allow three types of connections: Peer or Host connections, downstream gateway and downstream Dependent Logical Unit Requester. Wide area network support is provided using SDLC and X.25, but requires vendor-acquired adaptors.

Enterprise Extender (1 of 2)

Configuring Communications Server for AIX Enterprise Extender connectivity:

1. Define the Data Link Control (DLC)

2. Define the port

- Specify Interface (eth0, eth1, ...)
- Specify Connection Network

To configure the Communications Server Enterprise Extender connectivity, perform the following steps. First, define the Data Link Control. Next, define the port, specifying the interface and connection network that will support Enterprise Extender.

Enterprise Extender (2 of 2)

3. Define Link Station

- Remote IP host address or name
- Adjacent node type (Network Node, End Node)

4. Define the Dependent Logical Unit Requester (DLUR)

5. Define Local Logical Unit, Logical Unit Pool

After the port configuration is complete, use the link station configuration to select the IP interfaces and specify the adjacent node type. At least one Network Node station should be specified; but including more will allow for higher availability. Finally, define the Dependent Logical Unit Requester, followed by the Local Logical Unit and Logical Unit Pool.

LAN LLC2 (1 of 2)

Configuring Communications Server for AIX LAN LLC2 connectivity:

1. Define the Data Link Control (DLC)

2. Define the port

- Ethernet
- Token-Ring

LAN LLC2 definitions provide the ability to “pass through“ the Physical Unit (PU) visibility to the Host. To configure this, first define the Data Link Control; then specify the type of port.

LAN LLC2 (2 of 2)

3. Define Link Station as one of three types:
 - Link station to peer or Host
 - LAN Downstream Gateway
 - LAN Downstream Dependent Logical Unit Requester (pass-through DLUR)
4. Define the Dependent Logical Unit Requester (DLUR)
5. Define Local Logical Unit, Logical Unit Pool

The link station can be defined as Host or peer, Downstream Gateway or Downstream Dependent Logical Unit Requester. Choosing Downstream Gateway provides consolidation of Logical Units on the server. Whereas choosing Downstream Dependent Logical Unit Requester provides direct pass-through capabilities.

Finally, define the Dependent Logical Unit Requester, followed by Local Logical Unit and Logical Unit Pool.

Communications Server for Data Center Deployment on AIX WAN (1 of 2)

Configuring Communications Server for AIX WAN connectivity:

1. Define Data Link Control (SDLC or X.25 Qualified Logical Link Control)

2. Define the port

- SDLC
- X.25 QLLC

Like LAN, WAN definitions provide the ability to “pass through” the Physical Unit visibility to the Host. After defining the Data Link Control, the SDLC or X.25 QLLC port definitions will depend upon the WAN adapters supporting the connection.

Communications Server for Data Center Deployment on AIX WAN (2 of 2)

3. Define Link Station as one of three types

- Link station to peer or Host
- LAN Downstream Gateway
- LAN Downstream Dependent Logical Unit Requester (pass-through DLUR)

4. Define the Dependent Logical Unit Requester (DLUR)

5. Define Local Logical Unit (LU), Logical Unit Pool

As with the other network types, the link station can be defined as peer or Host, LAN Downstream Gateway or LAN Downstream Dependent Logical Unit Requester. Once the link station has been configured, then define the Dependent Logical Unit Requester, followed by Local Logical Unit and Logical Unit Pool. The Host can see the defined Physical Units downstream of the Communications Server for AIX server.



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