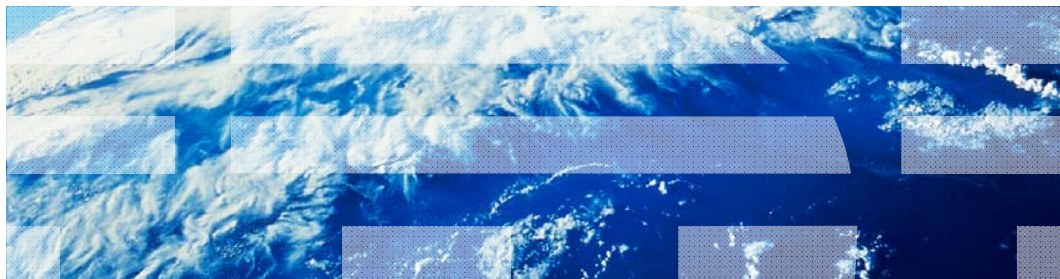IBM

Communications Server for Data Center Deployment

TN3270 Server and TN Redirector

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Available in the Communications Server for Data Center Deployment product is the TN3270 Server and the TN Redirector functionality. This presentation will briefly discuss the highlights of these functions.

Preliminary notes

- The content of this presentation applies to all platforms of the Communications Server for Data Center Deployment

- To distinguish between these platforms, each product is referred to by platform, as
    – Communications Server for Linux,
    – Communications Server for Linux on System z®, or
    – Communications Server for AIX®

TN3270 Server and TN Redirector   © 2012 IBM Corporation

This presentation describes Communications Server for Data Center Deployment as a whole, but the product applies to multiple platforms. To avoid confusion, each product is referred to specifically by platform: Communications Server for Linux, Linux on System z or AIX, as appropriate.

On AIX, Linux, and Linux on System z, the TN3270 Server supports:

- IPv4 and IPv6 clients

- SSL and non-SSL connections

- Provides TN3270 client connections:
  - Logical Unit (LU) Terminal
  - Logical Unit (LU) Printer
  - Remote Job Entry (RJE) workstation
  - Unrestricted
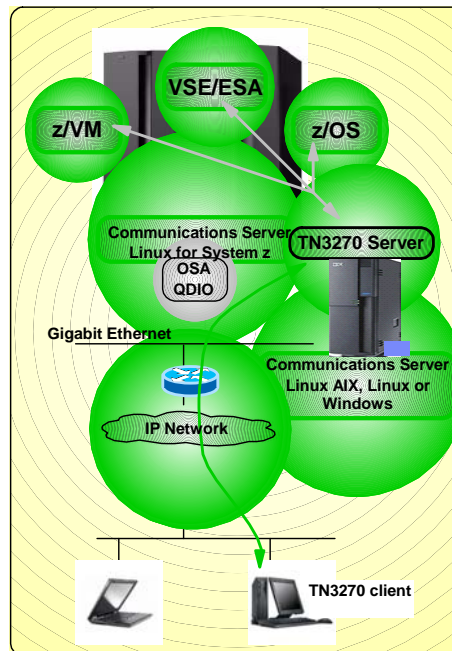
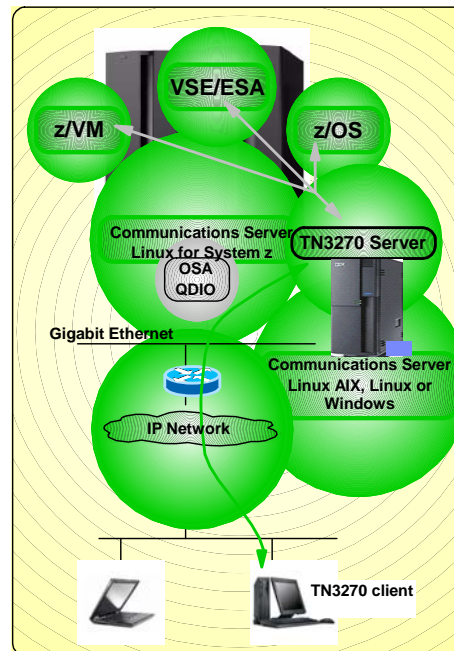3   TN3270 Server and TN Redirector   © 2012 IBM Corporation

On AIX, Linux and Linux on System z, the TN3270 Server supports IPv4 and IPv6 for both TN3270 and TN3270E clients, and SSL and non-SSL connections. It also provides TN3270 Logical Unit Terminal, Logical Unit Printer, Remote Job Entry workstation and unrestricted connections.

TN3270 Server and TN Redirector (2 of 4)

- Supports TN3270 clients that correctly implements RFC 1123, 1576, 1646, 1647 and 2355
    - Support for Logical Unit nailing
    - Contention resolution
    - Terminals with associated printers

VSE/ESA

z/VM

z/OS

Communications Server
Linux for System z
OSA
QDIO

TN3270 Server

Gigabit Ethernet

Communications Server
Linux AIX, Linux or
Windows

IP Network

TN3270 client

The server also supports TN3270 clients that correctly implement RFC 1123, 1576, 1646, 1647 and 2355, providing support for Logical Unit nailing, contention resolution and terminals with associated printers. This includes printers which use Logical Unit 1 and Logical Unit 3 TN3270 flows.

Communications Server for Data Center Deployment :
– TN3270 Server and TN Redirector can listen on ports of specific interfaces
  • Systems with multiple interfaces can have interfaces specified for listening or not-listening
– Unique terminal devices can be specified
  • Map a specific TN3270 device to a model type on host
  • Uses a "TN3270dev.dat" file to map device to model name

5   TN3270 Server and TN Redirector   © 2012 IBM Corporation

The Communications Server for Data Center Deployment product implements TN3270 Server on AIX, Linux and Linux on System z using the same design. The TN3270 Server and Redirector can listen on ports of specific interfaces. This allows systems with multiple interfaces to selectively choose interfaces as listening or not-listening. Additionally, unique terminal devices can be specified by defining a mapping between a TN3270 device type and the model type the host uses. A TN3270dev.dat file can be used to create this mapping.

TN3270 Server and TN Redirector (4 of 4)

- Telnet Redirector provided
  - Supports Secure Socket Layer (SSL) and non-SSL connections on multiple IP interfaces
    - TN Redirector can provide all the encryption services for a branch
    - TN Redirector can front-end another TN3270 to provide the SSL connection
  - Works with Telnet and TN3270

TN3270 Server and TN Redirector   © 2012 IBM Corporation

TN Redirector is a useful server for acting as a Telnet proxy. It supports SSL and non-SSL connections on multiple IP interfaces, providing all the encryption services needed for a branch. Additionally, the TN Redirector can front-end another TN3270 to provide the SSL connection. This allows in-coming addresses and ports to be mapped to out-going destination addresses and ports, which is useful for supporting SSL connections in and non-SSL going out (and the opposite). This works with both Telnet and TN3270.

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TN3270 Server and TN Redirector

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