



IBM Software Group

Strategies for replacing your IBM® 37xx Communication Controller

***Using IBM Communication Controller for Linux® on System z9 and
zSeries v1.2***

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@business on demand.

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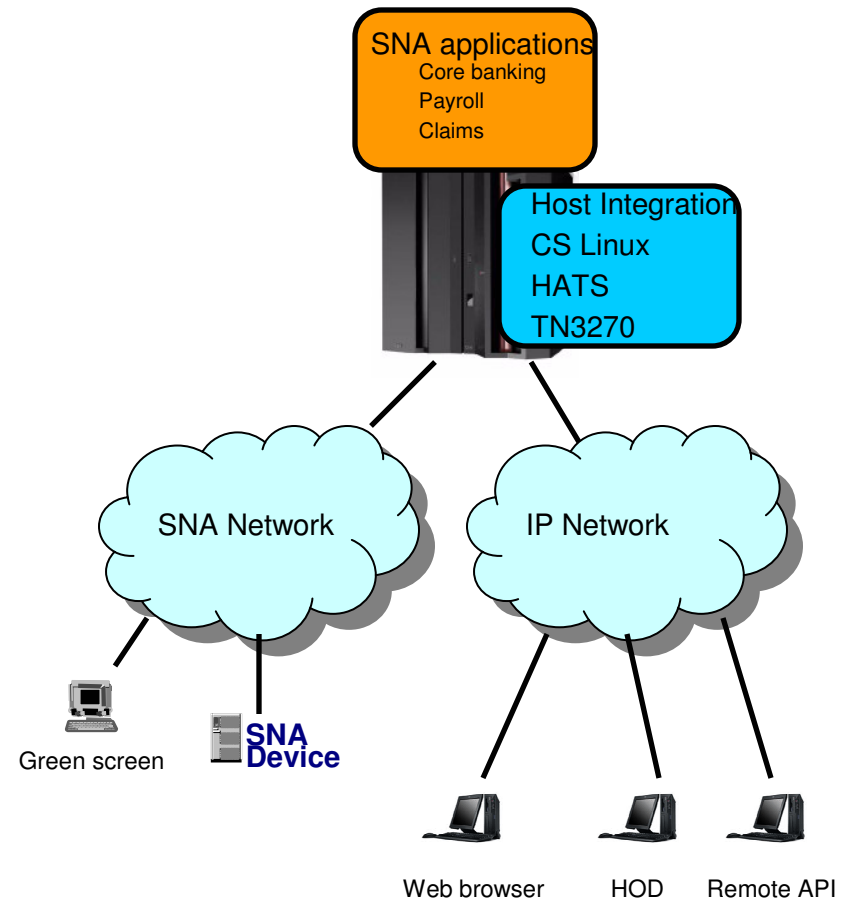
Outline

- **SNA applications in today's world of IP Networks**
- **CCL overview**
 - ▶ Strategies for using CCL
 - ▶ Scenarios
 - SNI
 - D/R
 - Boundary connections
- **Wrap-up**
- **Supplemental information**
 - ▶ Services
 - ▶ Contacts and reference information



SNA applications

- For over 30 years, enterprises have relied on SNA applications to handle mission critical workloads
 - ▶ Enterprises will continue to use their large portfolio of SNA applications even as they change their network infrastructures to IP.
- What can be done to protect the investment in these SNA applications?
 - ▶ Continuing to use them requires
 - Partner applications on the other end
 - A method of transporting SNA data, such as an SNA network or an SNA to IP integration solution
 - ▶ Some enterprises have investigated converting their applications to IP
 - These exercises are costly
 - Introduces unnecessary risk to the business during the migration
 - May not have all the functions of the SNA application
 - ▶ Front end the application with Host Integration solutions such as
 - HATS, HOD, or remote API client



Supporting SNA applications on today's IP networks

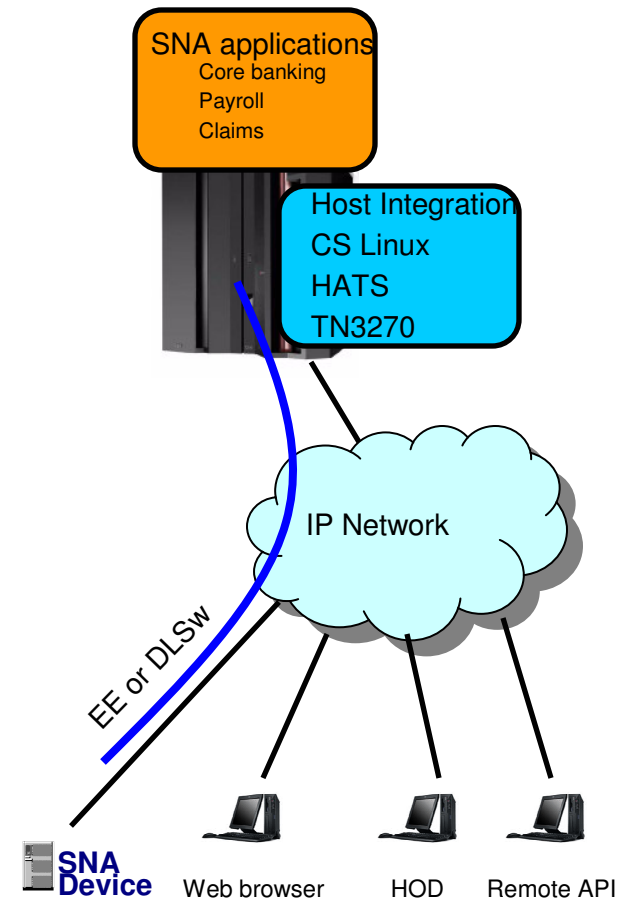
Enterprises need technologies for transporting SNA data across their IP based networks

- Networking solutions – **3 key elements**

- ▶ Enterprise Extender
 - Provides an efficient, reliable method of transporting SNA across an IP network
- ▶ Data Link Switching (DLSw)
- ▶ Communication Controller for Linux on System z9 and zSeries

- Host integration solutions

- ▶ TN3270
 - Allows you to replace SNA LU2 clients with an IP solution
- ▶ HOD
 - Provides a web based TN3270 client
- ▶ HATS
 - Provides a web interface integrate data from SNA and TCP/IP applications

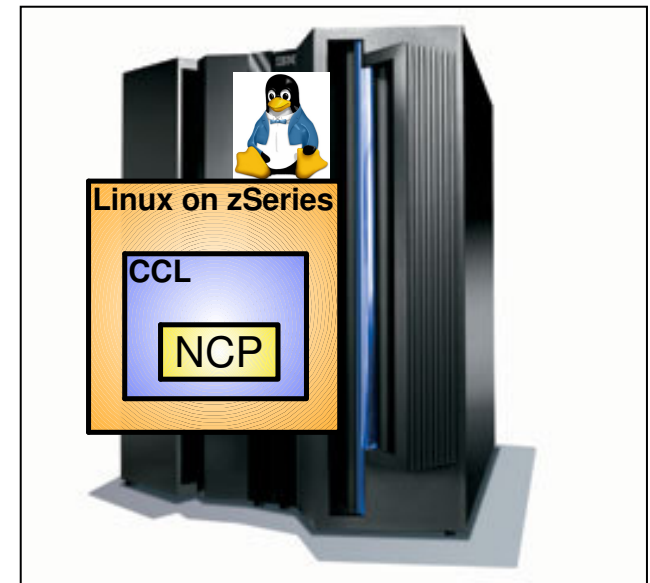


IBM Communication Controller for Linux on System z9 and zSeries

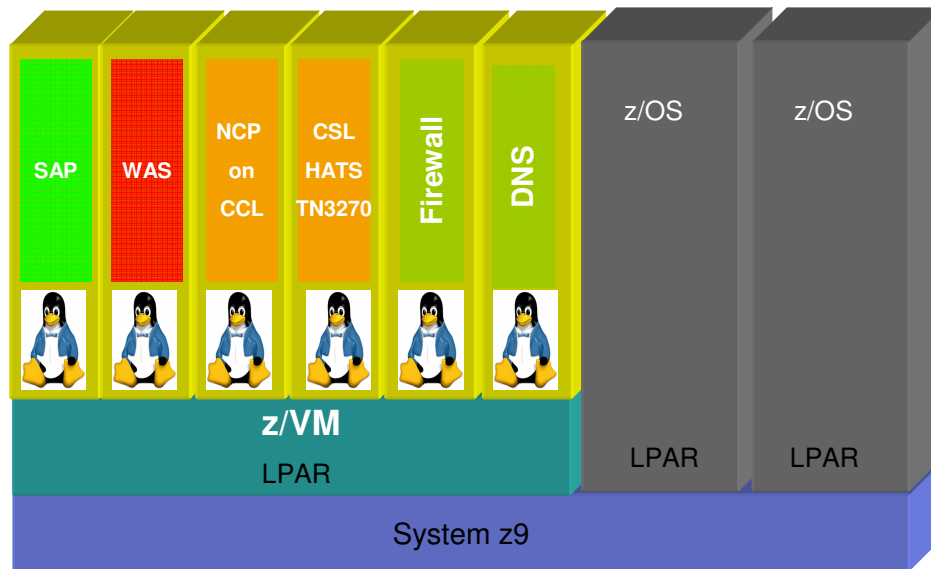
- **Less Risk, Lower Cost and Strategic Platform – Migration Solution that makes sense**

- **Runs Existing NCP on a highly strategic hardware platform**
 - Emulates IBM 3745 Communication Controller
 - Supports important NCP functions
 - SNA Network Interconnect and Boundary Function
 - Availability
 - Network Management
 - Allows NCP migration to CCL with few changes to VTAM definitions and operations.
 - In most cases no changes to NetView definitions and operations.
- **Flexible Connectivity Options**
 - CDLC communication on System z9 providing higher throughput for VM, VSE, z/OS, and now TPF.
 - Pure IP communication between NCPs under CCL
 - Leverages your investment in fiber based data center LAN
 - Support for vendor written X.25 communication over TCPIP (XOT) plug ins

- **Greater Performance providing faster transaction with lower processor utilization.**



Linux and Mainframes – A Great Combination!!



What Linux brings to mainframe customers

- High quality, stable, secure operating environment
- Evolves rapidly to meet business challenges
- A large selection of applications, middleware, and tools
- Economical – available from multiple distributors
- A large number of skilled administrators and programmers



What the mainframe brings to Linux users

- Legendary mainframe reliability
- Designed to support multiple, diverse workloads simultaneously
- Complete workload isolation
- Unmatched scalability
- Unique virtualization function that lets you run and manage many Linux servers on a single zSeries server

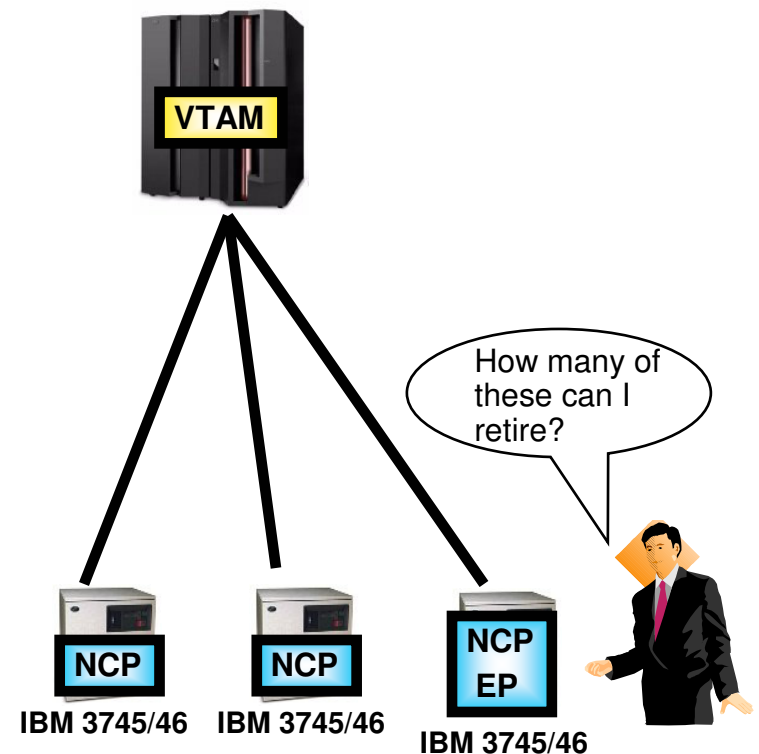
CCL Planning Questions – Plan now!

Should you replace your IBM 37xx now or later?

- Aging hardware, declining hardware skills, and cost of maintaining the hardware are compelling reasons to consider migrating now.
- Benefits from newer technology
 - ▶ IP based host connectivity using OSA fiber
 - ▶ Increased scalability and improved throughput of NCP running on CCL

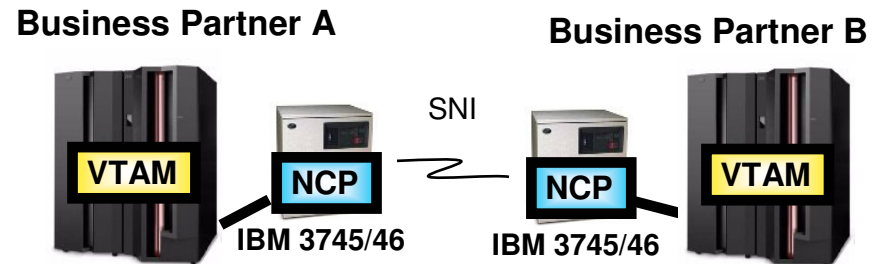
How might you choose to deploy CCL?

- Replace all 3745s
 - ▶ Many customers still have SNI and boundary devices on 3745s..
 - ▶ Maximizes the benefits of using CCL
- Consolidate unsupported functions such as EP and migrate the rest of the work to CCL
 - ▶ Allows you to benefit from CCL while continuing to provide services that are not supported

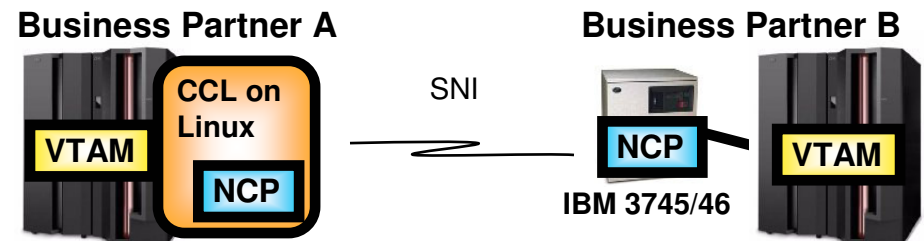


Flexibility in Supporting your business partners

- You need to continue to support business to business SNA applications
 - Yet you want to retire your 3745
 - But your business partner doesn't want to change
- How can you solve this impasse?
 - **Move your NCP to Linux on zSeries**
- How will this help?
 - Freed from waiting for business partner to change
 - Eliminates coordinated migration requirements of other solutions.
 - Has no impact on existing SNI topology.
 - **Protects your investment in NCP definitions while lessening the impact on network operations**
- Many connectivity choices
 - Including existing SDLC lines, DLSw, and a new IP based Transmission Group



The old way



The CCL way

Security Issue: Disaster/Recovery

- D/R sites are an important part of today's I/T infrastructure
- As you plan and build your D/R site, how do you provide backups for legacy hardware that still fills a critical business need?
 - ▶ You could buy more hardware from the used market, but do you want to bet your business on second hand equipment?
- CCL allows you to continue to support NCP functions without having to increase your investment in outdated hardware



Hardware

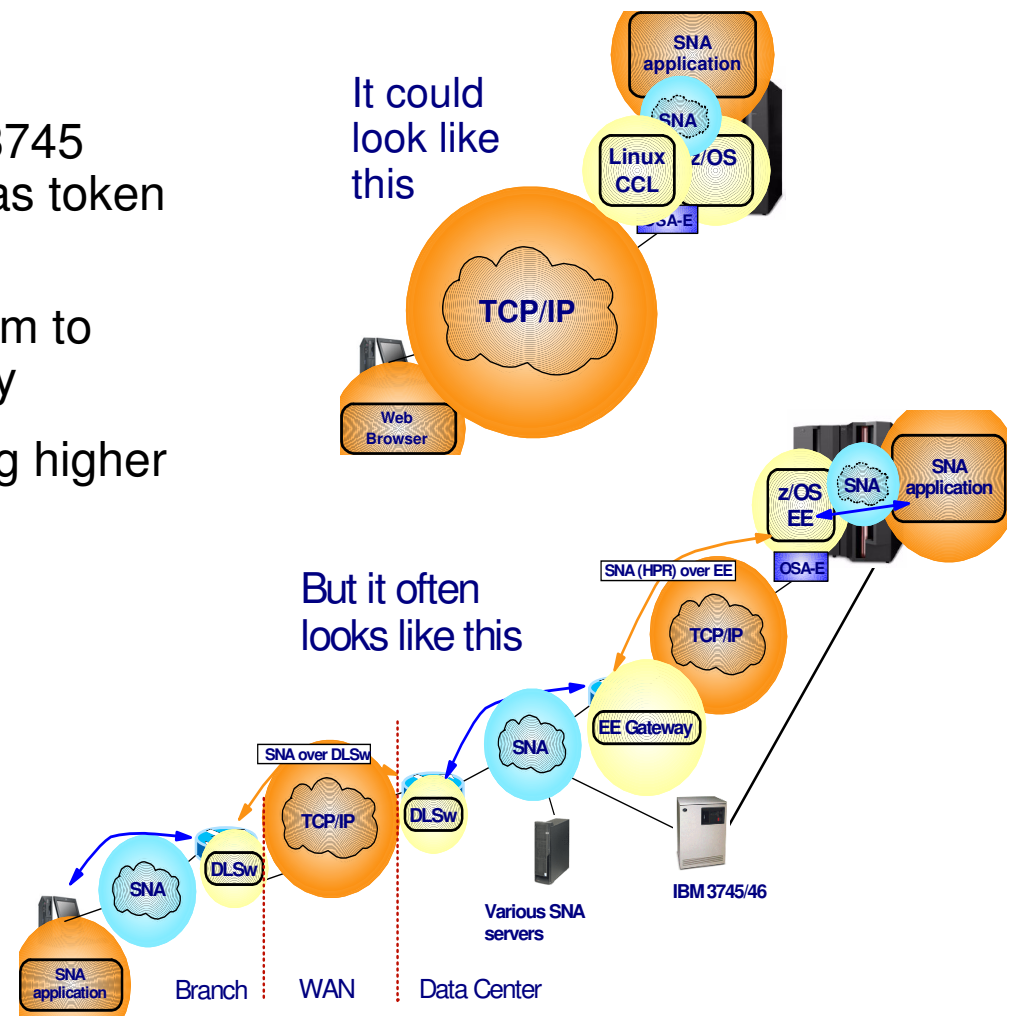


Software



Modernizing/Upgrading Traditional Network Infrastructure

- CCL removes dependence on aging 3745 hardware and network protocols such as token ring
- Supports BNN devices and allows them to benefit from OSA fiber host connectivity
- Simplifies your network while providing higher throughput and lower response time



Summary

- Issue: SNA applications handle mission critical workloads for your enterprise
 - ▶ They are costly to rewrite, and doing so introduces risk
- Issue: Maintaining dual SNA and IP networks is no longer practical
 - ▶ Expensive to have extra equipment and the skills to support it
- Solution: CCL addresses these issues and provides a way to support mission critical SNA applications while removing SNA networking hardware
 - ▶ Benefits from proximity to SNA applications
 - ▶ Consolidating hardware provides cost savings from reduced floor space, hardware maintenance
 - ▶ Provides solution for SNI to business partners, boundary function, and D/R sites



Accelerate your CCL deployment

- IBM Software Services for WebSphere (ISSW) CCL services offerings
 - ▶ Quick Start
 - 3 day on-site workshop
 - install, configure, and deploy a test CCL NCP in your environment
 - Provide skills transfer
 - ▶ Network Assessment
 - On-site network evaluation of current network
 - Evaluate options and provide an architecture based on your business needs
 - ▶ Architecture Workshop
 - On-site network evaluation of current network
 - Evaluate options and provide an architecture based on your business needs
 - Provide detailed implementation and migration steps
 - ▶ Migration Services
 - Custom network migration services for IBM networking products including CCL, Communication s Server, 37xx and NCP.
- For more information on these offerings, contact April Singer
singeraf@us.ibm.com



Contacts & reference information

For more information about CCL

- ▶ CCL homepage <http://www.ibm.com/software/network/ccl>
 - Library page <http://www.ibm.com/software/network/ccl/library>
 - Support page <http://www.ibm.com/software/network/ccl/support>

Contacts

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