



# **Workshop Announcement**

**2008**

**Communication Controller for Linux on System z (CCL)  
Installation and Configuration Workshop**

**IBM Advanced Technical Support  
IBM Washington Systems Center  
Gaithersburg, MD**

<b>Title</b>	<b>Communication Controller for Linux on System z (CCL) Installation and Configuration Workshop</b>
<b>Dates</b>	<b>Feb. 12-15, 2008 (Gaithersburg, MD) September 16-19, 2008 (Gaithersburg, MD)</b>
<b>Locations</b>	<b>Gaithersburg: 800 N. Frederick Ave. – Room 1P-146</b>
<b>Duration</b>	<b>3.5 days (9AM Start; 5PM End; Last Day ends at 2PM)</b>
<b>Enrollment Contact</b>	<b>Bette A Brody <a href="mailto:bbrody@us.ibm.com">bbrody@us.ibm.com</a> 301-240-2614</b>
<b>Class Size</b>	<b>12 (3 students per team)</b>
<b>Objectives</b>	This workshop is designed to give the student real hands-on experience of successfully installing and configuring CCL for many of the functions included in CCL V1.2.1. Students will learn how to plan for the deployment of CCL on System z. They will verify the Linux environment required for CCL, after which they will install CCL on Linux for System z. The students will make the NCP and VTAM changes which are sometimes required for a CCL implementation and will learn to operate an NCP in CCL when VTAM is attached both via a LAN and via a Channel to the NCP in CCL. They will analyze the CCL/NCP environment by monitoring CCL with the MOSS console function and with VTAM, by working with NLDM and NTuneMon, and by reviewing logs and Linux system output.
<b>Audience</b>	<b>Customers who need to provide technical support for CCL, IBMs, Business Partners.</b>
<b>Topics</b>	<ul style="list-style-type: none"> <li>• <b>WELCOME</b></li> <li>• <b>Lecture:</b> Overview of CCL (CCL V1.1, V1.2, V1.2.1) <ul style="list-style-type: none"> <li>• Optional Demo(s) of CCL: LCS, Layer2, IPTG, DLSw, CDLC, NPSI</li> </ul> </li> <li>• <b>Optional Lecture:</b> Quick Sizer for CCL <ul style="list-style-type: none"> <li>• Paper Lab as Homework</li> </ul> </li> <li>• <b>Lab 1:</b> <ul style="list-style-type: none"> <li>• Storing CCL code, Documentation, Linux Utilities on Lab Workstation <ul style="list-style-type: none"> <li>• <u>Optional</u> - depends on Classroom location and setup</li> </ul> </li> <li>• Customizing Desktop Environment for Linux Access</li> </ul> </li> <li>• <b>Lab 2:</b> <ul style="list-style-type: none"> <li>• Customizing Desktop Environment for MVS Access</li> </ul> </li> <li>• <b>Lecture:</b> Configuring OSAs for CCL</li> <li>• <b>Lab 3:</b> (Optionally performed as a demo) <ul style="list-style-type: none"> <li>• Editing Sample OSA Definition Members on MVS for LCS and LSA</li> <li>• Verifying Solutions on Paper</li> </ul> </li> <li>• <b>Lecture:</b> Installing CCL V1.2.1</li> <li>• <b>Lab 4:</b> <ul style="list-style-type: none"> <li>• Working with Linux</li> <li>• Uninstalling a Previous CCL Installation</li> </ul> </li> <li>• <b>Lab 5:</b> <ul style="list-style-type: none"> <li>• Installing CCL V1.2.1</li> </ul> </li> </ul>

- **Lecture:** NCP Coding for CCL
  - NCPs with OSAs in LCS and Layer 2 Modes
- **Lecture:** Operating NCPs in CCL with LCS and Layer 2 Adapters
- **Lab 6:**
  - Coding and Generating an NCP for CCL with LCS and Layer 2 Network Adapters
  - Transferring an NCP Load Module to CCL over a LAN Connection
- **Lab 7:**
  - Creating VTAM Members to Interoperate with NCP
  - Operating NCPs in CCL
  - Testing BNN and INN Connections to an SNI Partner
  - Transferring NCP Load Modules over an SSCP-PU Session
  - Extra Credit Lab: Monitoring with NetView and NTuneMon
- **Lecture:** Coding Linux for Layer 2
- **Lab 8:**
  - Creating Linux System Configuration Files for an OSA in Layer 2 Mode
  - Using "Midnight Commander" Full-Screen Editor under Linux
  - Verifying Solutions Live or on Paper
- **Lecture:** Coding for IPTG
- **Lab 9:**
  - Coding for IPTG and TIC3 (ccldefs file in Linux; NCP considerations)
  - Regenning an NCP for IPTG
  - Verifying Solutions Live or on Paper
  - Extra Credit Lab: IPTG Enhancements
- **Lecture:** Coding for DLSw
- **Lab 10**
  - Coding for DLSw in Linux (dlscfg.xml file in Linux)
  - Regenning an NCP for DLSw INN and BNN Links
  - Verifying Solutions
  - Working with the DLSw Console
- **Lecture:** Coding for CDLC
  - IBM Website Technotes: CDLC Troubleshooting Guide
- **Lab 11:**
  - Coding for CDLC in Linux: Devices, ccldefs file with CDLCDEFS block, iplportdefs
  - Coding for ESCON Channels in NCP
  - Verifying Solutions Hands-on or on Paper
- **Workshop Closing Comments**
- **Optional Lecture: Coding for NPSI and X.25**
- **Optional NPSI Demo or Lab**
- **Optional Lab:**
  - Applying maintenance to CCL, NDH, XOT

**Prerequisites** This is an intense technical implementation workshop that assumes that students are already familiar with the marketing themes of Communication Controller for Linux. Students should have an understanding of the VTAM and NCP products, and have TSO experience. Depending on location, IBM students may be asked to bring their own laptops to be used in the hands-on labs. Non-IBM students will be provided a lab workstation when necessary.

**Deliverables** Lectures and hands-on labs. Hard-copy workshop notes will be

provided to the students.

**Enrollments** By response to this invitation and by subsequent email confirmation 1 week prior to class start date from Bette Brody/Gaithersburg/IBM.

**IBM Cancellation Policy** IBM will cancel 10 days prior to start date if there are less than 5 enrollments per Workshop.

**Customer Cancellation Policy** Customers need to send an email to Bette Brody ([bbrody@us.ibm.com](mailto:bbrody@us.ibm.com)) or call 301-240-2614.

**Workshop Fee** **No charge.**

**Expenses** All travel, hotel and living expenses are to be paid by the attendee.