

# IBM Education Assistance for z/OS V2R1

Item: FICON CTCs

Element/Component: BCP GRS



## Agenda

- Trademarks
- Overview
- Usage & Invocation
- Migration & Coexistence Considerations
- Installation
- Appendix



## Trademarks

- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.



## Overview

- Problem Statement / Need Addressed
  - IBM zEnterprise EC12 does not support ESCON
  - GRS-managed CTCs were only supported for ESCON basic mode
- Solution
  - GRS now supports extended mode FICON CTCs
- Benefit / Value
  - GRS-managed CTCs still possible



## Usage & Invocation

- IBM continues to recommend GRS Star for global ENQs
  - Better performance & scalability
- IBM continues to recommend sysplex communications for GRS Ring
  - Sysplex management of CTCs robust
- GRS-managed CTCs still possible
  - GRSCNFxx parmlib syntax unchanged
  - Migration actions necessary however to change the CTCs



## Usage & Invocation

- Existing message, new return code
  - ISG046E CTC ddd DISABLED DUE TO HARDWARE ERROR –  
CODE=10
  - Indicates FICON CTC path lost
  - GRS will display the CTC as disabled but not vary it offline
  - GRS will automatically enable the CTC when the path is found



## Migration & Coexistence Considerations

- GRS-managed CTC support is hardware toleration
- Full delivered for earlier releases via APAR OA38230
  - V1R11 PTF UA66451
  - V1R12 PTF UA66452
  - V1R13 PTF UA66453
- See installation instructions



## Installation

- Rolling IPL Steps summarized
  - Follow normal procedures to bring down the system, prepare for IPL
  - Quiesce the system from the ring
    - Issue VARY GRS(X),QUIESCE
  - Stop the system
    - SYSTEM RESET
  - Purge the system from the ring
    - Issue VARY GRS(X),PURGE
  - IPL system with new GRSCNFxx
    - Including the original ESCON CTCs and then the new FICON CTCs
  - Check the CTCs
    - Issue DISPLAY GRS to confirm system and CTC status
  - Repeat steps 1-6 on each remaining system in the Ring





## Appendix

- z/OS V2R1 MVS Planning: Global Resource Serialization  
–SA22-7600
- Hot Topics z/OS Newsletter August 2012 Issue 26  
–[http://www-03.ibm.com/systems/z/os/zos/bkserv/hot\\_topics.html](http://www-03.ibm.com/systems/z/os/zos/bkserv/hot_topics.html)

