

This page provides details of what's new in HCM for z/OS V2R1.

### **Enhancements of the I/O Autoconfiguration function**

HCD provides the following enhancements of the I/O Autoconfiguration function that has been introduced in z/OS V1R12:

- In addition to switched FICON connected controllers, I/O Autoconfiguration can now discover FICON directly attached controllers and devices and proposes point-to-point connection paths if available.
- I/O Autoconfiguration supports the inclusion or exclusion of specific switches or CHPIDs into the discovery and proposal process, that users can explicitly specify with the invocation of an I/O Autoconfiguration request. For this purpose, HCD introduces four new autoconfiguration policy keywords:
  - AUTO\_CHPID\_INCLUDE
  - AUTO\_CHPID\_EXCLUDE
  - AUTO\_SWAD\_INCLUDE
  - AUTO\_SWAD\_EXCLUDE
- The autoconfiguration policy keyword AUTO\_SS\_DEVNUM\_SCHEME accepts a new value NONE. This value bypasses control unit and device number proposals by HCD and lets the user manually apply the numbers for detected objects.
- I/O Autoconfiguration allows discovery by controller serial number and filters the discovered controllers accordingly.
- HCD can process an I/O Autoconfiguration request that is partially directed against unavailable systems of an LPAR group or a sysplex, or against systems that are not capable to support I/O Autoconfiguration. Users can specify that the request applies to appropriate systems only, and that unavailable/uncapable systems are tolerated but ignored.
- HCD allows users to change certain I/O Autoconfiguration policies between two subsequent controller discoveries without the need to make a new fabric discovery. This enables I/O Autoconfiguration to perform each new controller discovery with changed policies.

### **Support of PCIe functions**

Peripheral Component Interconnect Express (PCIe) adapters offer new functionality to systems running on IBM zEnterprise EC12 and BC12 (zEC12 and zBC12) processors in order to connect, for example, to an IBM zEnterprise BladeCenter® Extension (zBX). Therefore, HCD introduces a new dialog where users can define PCIe functions, assign them to LPARs, and activate them via IOCP or dynamically. In addition, HCD provides the following new reports:

- The PCIe Function Summary Report displays the partitions in the access and candidate lists which are entitled to access the available PCIe functions.
- The PCIe Function Compare Report shows the changes of PCIe functions between processors of two IODFs.

## **PCHID Summary Report**

The PCHID Summary Report as part of the CSS Summary Report lists all defined channel paths and PCIe functions grouped by their defined PCHID values or, as applicable, by their HCA adapter or port IDs.

## **Hardware support**

HCD supports the IBM zEnterprise EC12 and BC12 (zEC12 and zBC12) processor family (processor types 2827-H20, -H43, -H66, -H89, -HA1 and 2828-H06, -H13).