

SHARE in Pittsburgh – Session 15801

HMC/SE Publication and Online Help Strategy Changes with Overview of IBM Resource Link

Tuesday, August 5th 2014

Jason Stapels

HMC Development

jstapels@us.ibm.com



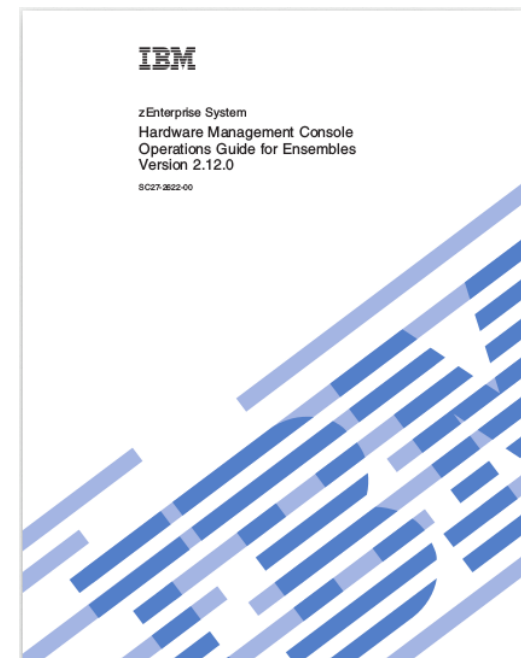
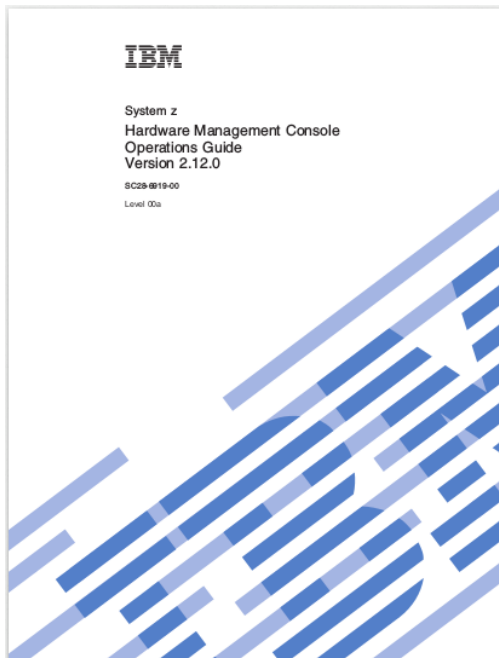
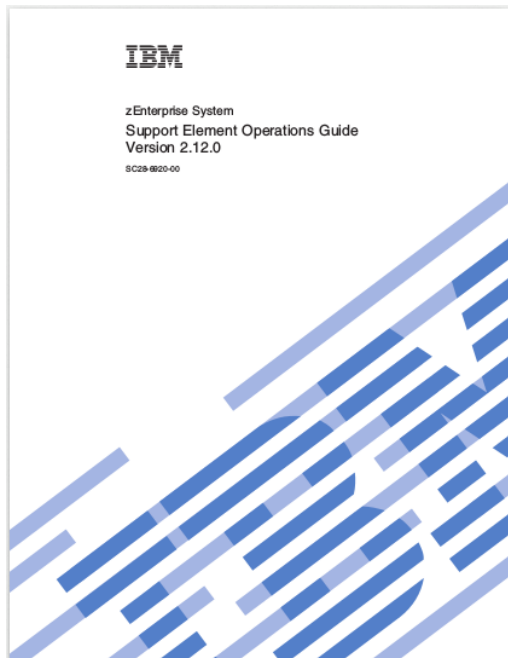
Agenda

- Publication Changes
 - Online Strategy
- Console Help
- Online Help
- Resource Link
 - System z product publications
 - Machine information
 - Customer Initiated Upgrade
 - CHPID Mapping Tool
 - Power and weight estimation
 - Customized planning information
 - Machine and Hiper Alerts
 - Notifications

Publication Changes

- Previously

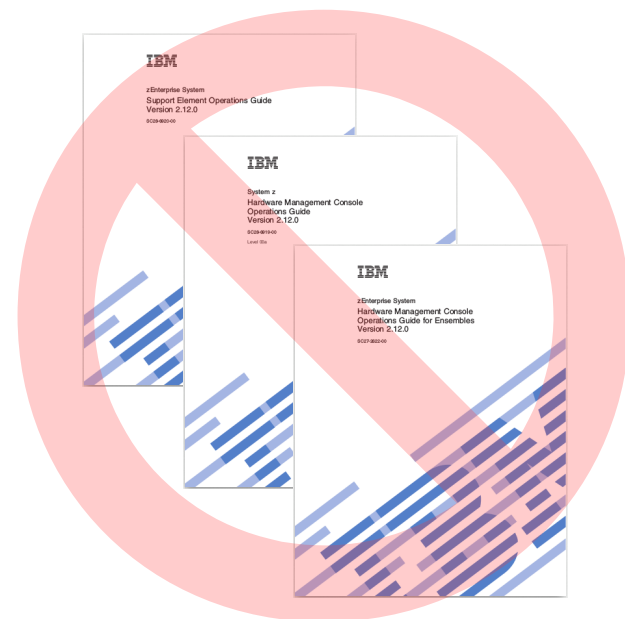
- Publications → High-level information
 - Overall Directions, Basic Operations, Task Overviews
- Online Help → Details information only on a per task basis
- Separate information on HMC & SE → Both on tasks & concepts



Publication Changes – Merging of Publications

- Strategy for version 2.12.1

- Merge HMC & SE Publications and Online Help
- One information package available on:
 - HMC Online Helps
 - SE Online Help
 - IBM Information Center
 - <http://pic.dhe.ibm.com/infocenter/hwmca/v2r12m1/index.jsp>



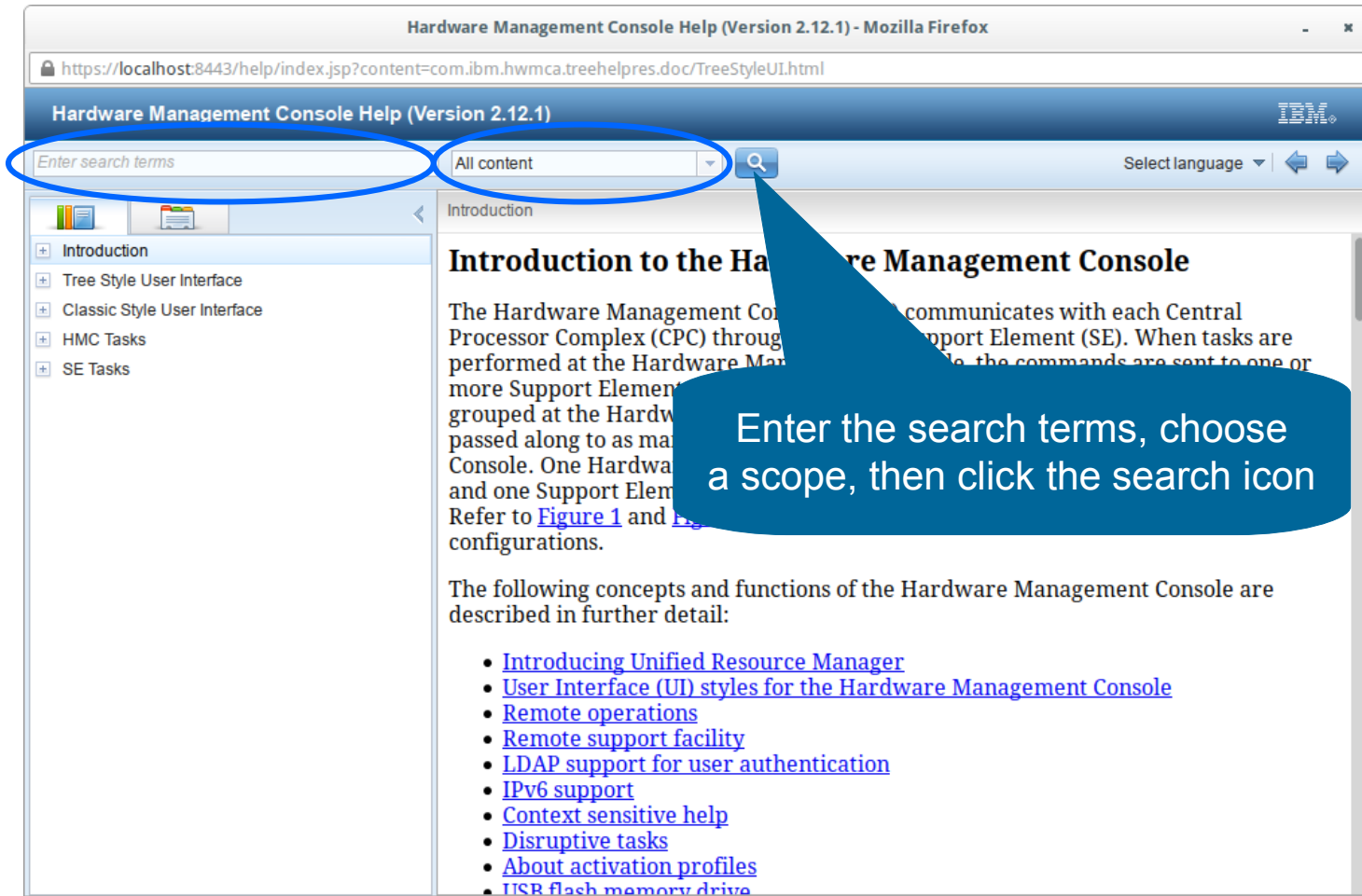
- HMC/SE specific publications no longer exist:
 - **SC28-6919** *System z Hardware Management Console Operations Guide*
 - **SC27-2622** *zEnterprise System Hardware Management Console Operations Guide for Ensembles*
 - **SC28-6920** *zEnterprise System Support Element Operations Guide*

Publication Changes – Available Online

- Overview/directional information and details available in one place:
 - HMC or SE console
 - IBM Information Center
- Ability to offload or print as much information as you like from IBM Information Center
- Search capability from the Table of Contents or Index
- Save time without navigating between the publications and the console help
- Remaining System z hardware publications
 - No change in direction
 - Continue to be available on IBM Resource Link
 - <http://www.ibm.com/servers/resourcelink/>
 - IBM Resource Link registration process described later
 - Note: IBM Information Center requires no special registration for access

Console Help

To search the help content from the HMC or SE, enter a search string in the *Enter search terms* input area, and choose a search scope.



Console Help (cont.)

The results of the search are displayed under the **Search** tab.

Hardware Management Console Help (Version 2.12.1) - Mozilla Firefox

https://localhost:8443/help/index.jsp?content=com.ibm.hwmca.treehelpres.doc/TreeStyleUI.html

Hardware Management Console Help (Version 2.12.1)

Version 2.12.1 All content Select language

Showing 6 results for 'Version 2.12.1'.

What's new in version 2.12.1

- Introduction

SE Tasks

- SE Tasks

Books

- Classic Style User Interface

Introduction to the Hardware Management Console

- Introduction

Welcome

- Tree Style User Interface

Availability Status Table

- HMC Tasks

Introduction to the Hardware Management Console

The Hardware Management Console (HMC) communicates with each Central Processing Complex (CPC) through the CPC's Support Element (SE). When tasks are performed in the Hardware Management Console, the commands are sent to one or more CPCs. CPCs can be managed through the Hardware Management Console so that a single command can be issued to all of the CPCs defined to the Hardware Management Console. The Hardware Management Console can control up to 100 Support Elements. Each Support Element can be controlled by 32 Hardware Management Consoles.

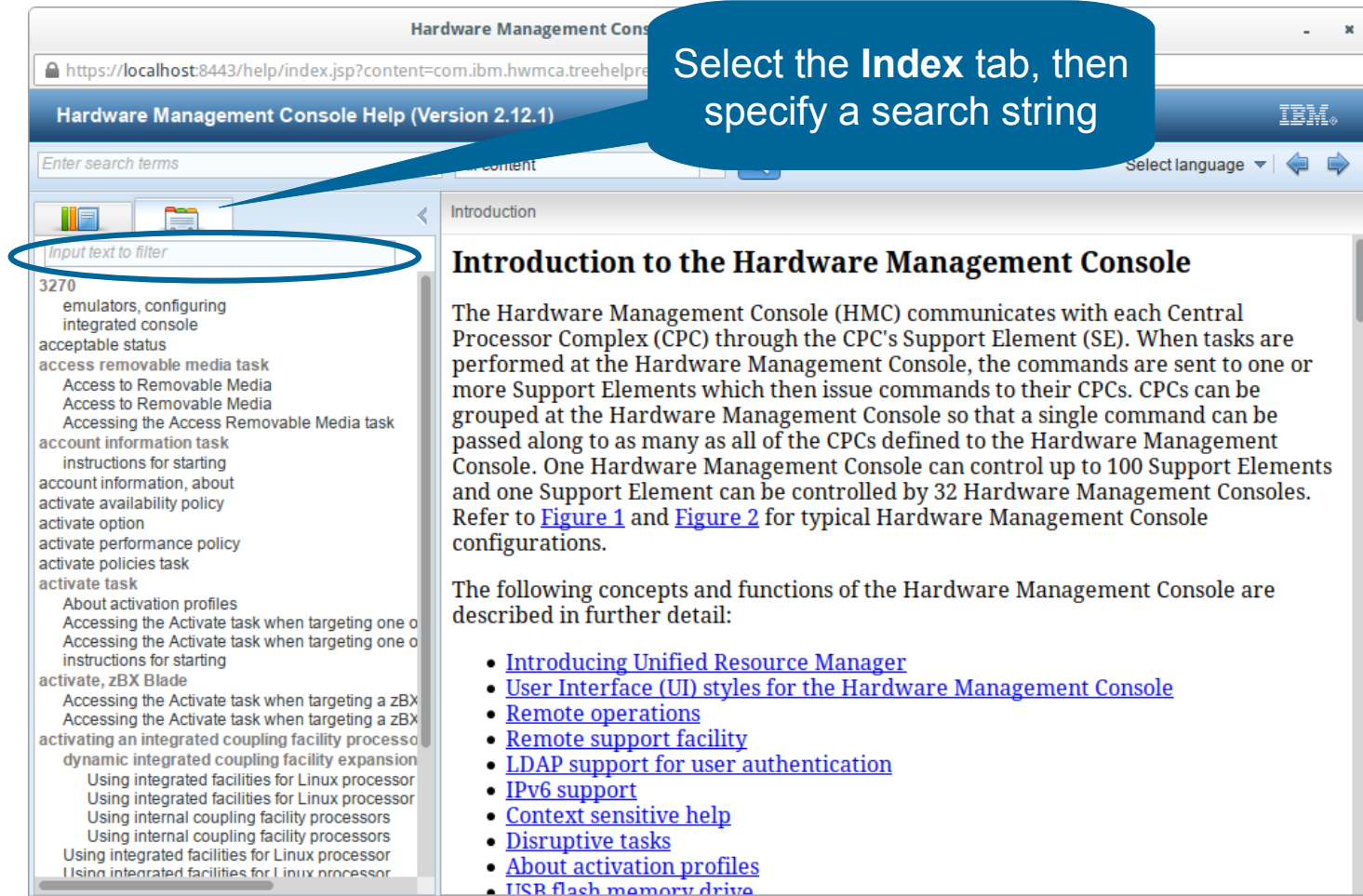
Refer to [Figure 1](#) and [Figure 2](#) for typical Hardware Management Console configurations.

The following concepts and functions of the Hardware Management Console are described in further detail:

- [Introducing Unified Resource Manager](#)
- [User Interface \(UI\) styles for the Hardware Management Console](#)
- [Remote operations](#)
- [Remote support facility](#)
- [LDAP support for user authentication](#)
- [IPv6 support](#)
- [Context sensitive help](#)
- [Disruptive tasks](#)
- [About activation profiles](#)
- [USB flash memory drive](#)

Console Help (cont.)

You can also search for content from the **Index** tab. Specify a search string in the *Input text to filter* area. Index will be filtered immediately to show new results.



Online Help - Overview

Specify a search string in the **Search** input area, then press **Enter** or click **Go**.

The screenshot displays the IBM System z HMC and SE (Version 2.12.1) Information Center. The interface includes a top navigation bar with links for Home, Solutions, Services, Products, Support & downloads, and My IBM. A search bar is located in the top right corner, with a 'Go' button. A 'Search' input area is highlighted with a blue circle and a callout bubble that says 'Enter a search string and press Enter'. The left sidebar contains a 'Contents' section with a list of topics: Using the information center, Product information, Hardware Management Console (HMC), Support Element (SE), and ibm.com: About IBM - Privacy - Contact. A callout bubble labeled 'Contents' points to this list. The main content area shows the title 'IBM System z HMC and SE (Version 2.12.1) Information Center' and a description: 'This information center contains information describing the System z Hardware Management Console and Support Element for Version 2.12.1.' Below this, there are tabs for 'Index', 'Tasks', and 'Support'. A callout bubble labeled 'Index' points to the 'Index' tab. A callout bubble labeled 'Search Results' points to the 'Search' input area. At the bottom of the page, there is a copyright notice: '© Copyright IBM Corporation 2013. | Terms of use' and a note: 'This information center is Built on Eclipse™. (www.eclipse.org)'.

Online Help - Searching

The results of the search are displayed under the **Search Results** tab.

Additional search results functions:

- Show result categories
- Show result descriptions (Default)
- Maximize

Search: Version 2.12.1 Scope: All topics

Search Results

Total 7 result(s) found for **Version 2.12.1**.

What's new in version 2.12.1

This guide reflects the licensed internal code for Support Element Console Application, Version 2.12.1. You can tell if your Support Element console has this version installed by looking at the title

What's new in version 2.12.1

This information reflects the licensed internal code for the Hardware Management Console Application, Version 2.12.1. You can tell if your Hardware Management Console has this version installed by lo

SE Tasks

This section provides detailed information on each of the Support Element (SE) (Version 2.12.1) tasks.

Books

Display the Books view by double-clicking with the left mouse button on the Books icon in the Views area. Object icons representing the following online books provided with the Hardware Management Con

Introduction to the Hardware Management Console

The Hardware Management Console (HMC) communicates with each Central Processor Complex (CPC) through the CPC's Support Element (SE). When tasks are performed at the Hardware Management Console, the co

What's new in version 2.12.1

This guide reflects the licensed internal code for Support Element Console Application, **Version 2.12.1**. You can tell if your Support Element console has this version installed by looking at the title bar on the Support Element Console. When you mouse over **SE Version** in the top of the work pane in the user interface.

There may be other changes to the licensed internal code for this guide. For additional information, refer to the PDF files available at <http://www.ibm.com/servers/resourceLink> or the other documents shipped with your processor.

This section summarizes the new and changed features for **Version 2.12.1**.

- The *Hardware Management Console Operations Guide*, the *Hardware Management Console Operations Guide for Ensembles*, and the *Support Element Operations Guide* have been removed from the console. The content from those publications has been incorporated into the help information. The help Table of Contents is categorized as follows:

Introduction

Includes console information that is not task specific.

Tree Style User Interface

Describes the concepts of the tree style user interface and how to navigate.

Classic Style User Interface

Describes the concepts of the classic style user interface and how to navigate.

HMC Tasks

Includes a list of the Hardware Management Console tasks, the appropriate help

Search keywords are highlighted

Online Help - Printing

You can choose to print one selected topic or the selected topic and all subtopics.

Country/region [select] Search

Home Solutions Services Products Support & downloads My IBM

Search: Go Scope: All topics

Contents

- Using Print selected topic
- Product Print selected topic and all subtopics
- Hardware Management Console (HMC)
 - Introduction
 - Tree Style User Interface
 - Classic Style User Interface
 - Tasks
 - HMC Tasks
 - Access Removable Media
 - Activate
 - Activate Policies
 - Activation Profiles List
 - Add Member to Ensemble
 - Add or Change Object Definition
 - Alternate Details
 - Alternate Support Element
 - Alternate Support Element Engineering
 - Analyze Console Internal Code
 - Archive Security Logs
 - Audit and Log Management
 - Authorize Internal Code Changes
 - Authorize Internal Code Changes
 - Accessing the Authorize Internal Code Changes
 - Do not allow installation and activation of internal code changes
 - Save
 - Reset
 - Cancel

Hardware Management Console (HMC) > Tasks > Authorize Internal Code Changes

Authorize Internal Code Changes

Use this window to verify or change the setting that allows using this console to perform installation and activation of internal code changes and other subsequent operations.

The operation defined can be changed. The operation defined can be changed.

When to

Normally, the operations are [allowed](#).

- Change the setting to not allow the operations when you do not want internal code to be changed. This can be for any reason.
- Change the setting to not allow the operations when you perceive a problem after changes are activated. This prevents installing and activating the same changes on other CPCs, and reduces the risk of causing the same problem on them.
- Change the setting to allow the operations when you want to install and activate changes that correct a previously detected problem.

Note: The console automatically changes the setting to not allow the operations if it detects errors after activating new internal code changes.

[Do not allow installation and activation of internal code changes](#)

To change the setting that allows using this console to perform installation and activation of internal code changes and other subsequent operations, select **Do not allow installation and activation of internal code changes**, then click **Save** to save the new setting.

Publications – Resource Link

IBM Resource Link will now link to IBM Information Center where needed.

Remaining HMC/SE pubs (such as HMC Web Service API, IOCP User Guide, PR/SM, etc) and all System z specific hardware docs (such as Install and Service) will continue to reside on Resource Link.

Resource Link

Site search

Planning

Education

Library

Fixes

Problem solving

IBM Systems > System z > Resource Link > Library >

zEnterprise EC12 library

Publications Technical notes

By title | By order number

→ Subscribe to this page

Title	Order number	Released	Download
Hardware Management Console FAQ	Z121-0243-00	12 Oct 2006	Z121-0243-00.pdf (464KB)
Hardware Management Console Operations Guide			
• Version 2.12.1			
• Version 2.12.0	SC28-6919-00a	12 Oct 2012	SC28-6919-00a.pdf (8.84MB)
Hardware Management Console Operations Guide for Ensembles			
• Version 2.12.1			
• Version 2.12.0	SC27-2622-00	5 Sep 2012	SC27-2622-00.pdf (3.51MB)
Hardware Management Console Web Services API			
• Version 2.12.1	SC27-2626-00a	20 Mar 2014	SC27-2626-00a.pdf (7.07MB)
• Version 2.12.0	SC27-2617-01	9 Apr 2013	SC27-2617-01.pdf (3.4MB)

Related publications

- [Safety Information](#)
- [License documents](#)
- [zBX license documents](#)

Callout boxes:

- All remaining publications continue to reside on Resource Link
- New link to Info Center
- Previous link to PDF on Resource Link

Resource Link

- What is it?
 - IBM Resource Link is a technical support web site included in the comprehensive set of tools and resources available for IBM Systems.
- What can I use it for?
 - System z product publications
 - Machine information
 - Customer Initiated Upgrade
 - CHPID Mapping Tool
 - Power and weight estimation
 - Customized planning information
 - Machine and hiper alerts
 - Subscription

Resource Link – Registering for Access

- To view the documents on the Resource Link web site, you need to register your IBM ID with Resource Link
- To Register:
 - Open the Resource Link sign-in page
 - <http://www.ibm.com/servers/resource link>
 - You need an IBM ID to access Resource Link
 - If you do not have an IBM ID and password, select the **Register for an IBM ID** link in the **Your IBM Registration** menu. Return to the Resource Link sign-in page after you get your IBM ID and password.
 - Sign in with your IBM ID and password
 - Follow the instructions on the subsequent page



Resource Link – Publications

- System z product publications
 - Browse and download softcopy publications for System z servers

The screenshot shows the IBM Resource Link Library page. The top navigation bar includes the IBM logo, links for Industries & solutions, Services, Products, Support & downloads, and My IBM, along with a search bar. The breadcrumb trail indicates the path: IBM Systems > System z > Resource Link > Library. The left sidebar contains a 'Resource Link' menu with options: Site search, Planning, Education, Library (highlighted with a blue circle), Fixes, and Problem solving. The main content area is titled 'Library' and includes sections for 'Your machine information' (listing zEC12 (27), z196 (1), and System z10 EC (3)), 'Machine Warranty' (explaining the IBM warranty statement), 'Mainframes' (listing various zEnterprise models, with 'zEnterprise EC12 (zEC12)' highlighted by a blue circle), and 'Hardware products for servers' (listing various server components). On the right, there are 'Library shortcuts' (FAQs, Safety Information, Purpose and Description documents, Hardware Management Console Library, SAPR Guides, Open Systems Adapter (OSA) Library) and 'Related libraries' (IBM Redbooks, IBM Software Technical Papers, IBM Terminology). A 'Download' section at the bottom right offers a link to 'Get Adobe® Reader®'.

Select **Library** from the Navigation Menu.

Choose the Mainframe type for the publications you're interested in.

Useful Shortcuts and related libraries can be found on the right

Resource Link – Reference Documentation

- Available from IBM Resource Link: *Library* → *zEC12* → *Publications*
 - Info Center Link: Hardware Management Console Operations Guide Version 2.12.1
 - Info Center Link: Support Element Operations Guide Version 2.12.1
 - Info Center Link: Hardware Management Console Operations Guide for Ensembles Version 2.12.1
 - IBM SB10-7030: Application Programming Interfaces
 - IBM SC28-2605: Capacity on Demand User's Guide
 - IBM SC27-2626: Hardware Management Console Web Services API Version 2.12.1
 - IBM SB10-7156: PR/SM Planning Guide
 - IBM SA22-1088: System Overview
 - IBM Z121-0243: Hardware Management Console: Frequently Asked Questions
- Available from IBM Resource Link: *Library* → *zEC12* → *Technical Notes*
 - System z Hardware Management Console Security
 - System z Hardware Management Console Broadband Remote Support Facility
 - System z Activation Profile Update and Processor Rules

Resource Link – Machine Information

- Machine Information

- Get reports based on data transmitted to IBM from your System z server.

The screenshot shows the IBM Machine Information page. The left sidebar contains a 'Resource Link' menu with options like Site search, Planning, Education, Library, Fixes, Problem solving, Services, Tools, Customer Initiated Upgrade, and Feedback. The main content area is titled 'Machine information' and includes a link to 'View all machines'. Below this, there is a 'Register' section with a link to 'Register for machine information'. A blue circle highlights this link, and a blue callout box points to it with the text 'Register your machine through Tools → Machine Information'. The 'Register' section also contains text about email notifications and a 'Learn more' section with links to 'About machine information', 'Frequently Asked Questions', and 'Examples' (Machine list, Machine profile page, System status report, EC/M, PCHID report).

IBM® Industries & solutions Services Products Support & downloads My IBM Search

IBM Systems > System z > Resource Link > Tools >

Machine information

→ [View all machines](#)

You have access to machine information for at least one customer number. Register again for your other customer numbers, if any.

Register

→ [Register for machine information](#)

You will be notified by email when your registration is processed and your request to access machine information is approved. Afterwards, you can return to this page to browse the machine information for your servers.

Learn more

- [About machine information](#)
- [Frequently Asked Questions](#)
- Examples:
 - [Machine list](#)
 - [Machine profile page](#)
 - [System status report](#)
 - [EC/M](#)
 - [PCHID report](#)

Register your machine through Tools → Machine Information

Connect with us

- Create a profile
- Communities
- Academic collaboration
- Research collaboration

Key topics

- Smarter Planet
- Analytics
- Big Data
- IBM Cloud

Information for

- C-suite executives
- Industries
- Small and medium business solutions
- Developers

Shop

- Special offers
- Personal computers
- Ready to buy?
- Financing

- Latest news
- IBM's Centennial
- IBM Research
- Case studies

- Apple + IBM partnership
- Careers
- Fix central
- Passport Advantage

Resource Link – Machine Information (cont.)

- System Status

- Shows machine “call home” reports and component status.

IBM Systems > System z > Resource Link > Machine information > Machine list >

Machine 2827 PBUV3 HA1

zEC12

Customer data | **System status** | EC/MCL | PCHID | MES |
Installation Planning Aids | Power Estimation Tool

Call home date	Power status	Second SE	Auto Service Call
2014/08/01 00:43:05	Fully Redundant	None	No
2014/07/31 00:44:22	Fully Redundant	None	No
2014/07/30 00:40:35	Fully Redundant	None	No
2014/07/29 00:40:44	Fully Redundant	None	No
2014/07/27 00:40:31	Fully Redundant	None	No
2014/07/25 00:43:40	Fully Redundant	None	No
2014/07/24 00:41:56	Fully Redundant	None	No
2014/07/23 00:40:35	Fully Redundant	None	No
2014/07/22 00:39:41	Fully Redundant	None	No
2014/07/21 00:40:22	Fully Redundant	None	No
2014/07/20 00:43:29	Fully Redundant	None	No
2014/07/18 00:54:38	Fully Redundant	None	No

Date of call: 2014/08/01 00:43:05
System name: PBUV3
Power status: Fully Redundant
Second SE: None
Automatic Service Call: No

Installed storage: 672 GB (includes 32GB HSA)
Processors:

	CP	SAP	ICF	IFL	zAAP	zIIP
LICCC	95	16	0	0	0	0
Active	95	16	0	0	0	0

Temporary records: 0 records installed, 0 records staged
Partitions: 9 Total, 0 Active, 9 Inactive
STP status: STP only

Total channels: 38
Coupling over InfiniBand: 4
FICON Express4: 32
OSA-Express3: 2

Resource Link – Machine Information (cont.)

- EC/MCL
 - Get a list of installed and missing MCLs.

IBM Systems > System z > Resource Link > Machine information > Machine list >

Machine 2827 DCBF4 H66 zEC12

Customer data | System status | **EC/MCL** | PCHID | MES |

Installation Planning Aids | Power Estimation Tool

• **Summary** • **MCL report** • **Missing MCLs**

• **Pending status** • **All**

This report was generated on 2014/08/01 05:36:23.

Support Element:
 EC Number H49564 / [Version 2.12.1](#) / Driver 15
 There are 10 MCLs missing including 0 Hipers, 0 Disruptive and 1 Configuration Dependent.
 There are 0 MCLs received that are not active.
 The SE last changed on 2014/07/25 16:36:18.
 HW Microcode patches were last RECEIVED on 2014/06/16 10:23:00.
 HW Microcode patches were last ACTIVATED on 2014/06/16 10:45:00.

Hardware Management Console:
 EC Number H49574 / [Version 2.12.1](#) / Driver 15 - Bundle 14
 There are 11 MCLs missing including 0 Hipers, 0 Disruptive and 0 Configuration Dependent.
 There are 0 MCLs received that are not active.
 The HMC last changed on 2014/07/29 19:23:31.
 HW Microcode patches were last RECEIVED on 2014/03/19 07:53:45.
 HW Microcode patches were last ACTIVATED on 2014/03/19 07:56:45.

Missing MCLs:

EC.MCL	Date	Bundle	Description
H49521.014	2014/07/01	18A	Segment 1 Image Information Name: 4.3.5 E P1v060C M011D P2v0708 F5540 Hash data: 722DF07C6C6B49395FFC5B6F777C5B88A35BF368BB733F4991646D498B9E5107 Segment 2 Image Information Name: 4.4.17 y4_13-Inx-2013-08-09-18 Hash data: 9E64A050759A13CFDD0B776B2603C1C419EFEC2CDB048ABB50D5495BA00CF9B Segment 3 Image Information Time Stamp: 3/20/14 8:36 AM Name: 4.4.20z CCA Hash data: F87CB3FB42E1048C5085AD08AA4DEE011FF9AE12941B6233A10AAFBAD957CADE
H49521.015	2014/07/01	18A	Segment 1 Image Information Name: 4.3.5 E P1v060C M011D P2v0708 F5540 Hash data: 722DF07C6C6B49395FFC5B6F777C5B88A35BF368BB733F4991646D498B9E5107 Segment 2 Image Information Name: 4.4.17 y4_13-Inx-2013-08-09-18 Hash data: 9E64A050759A13CFDD0B776B2603C1C419EFEC2CDB048ABB50D5495BA00CF9B Segment 3 Image Information Time Stamp: 3/20/14 8:36 AM Name: 4.4.20z CCA Hash data: F87CB3FB42E1048C5085AD08AA4DEE011FF9AE12941B6233A10AAFBAD957CADE
H49515.006	2014/07/01	18A	Vary CHPID On/Off Segment 1 Image Information Name: 4.3.5 E P1v060C M011D P2v0708 F5540 Hash data: 722DF07C6C6B49395FFC5B6F777C5B88A35BF368BB733F4991646D498B9E5107 Segment 2 Image Information Name: 4.4.17 y4_13-Inx-2013-08-09-18 Hash data: 9E64A050759A13CFDD0B776B2603C1C419EFEC2CDB048ABB50D5495BA00CF9B Segment 3 Image Information Time Stamp: 3/19/14 2:06 PM Name: 1.2.6 EP11:xClic+PKCS11 [3774060f] Hash data: C9DF81A5A796583A3F794AF982A79D721172040DF36664ADC0E8E2A103300B18
H49562.031	2014/07/23	19	SE bundle definition file to allow the install and activate to up to and including Bundle #19z. (For machines that includes SE MCL bundles up to and including Bundle #19z.)
H49562.032	2014/07/23	20	SE bundle definition file to allow the install and activate to up to and including Bundle #20z. (For machines that includes SE MCL bundles up to and including Bundle #20z.)

Resource Link – Customer Initiated Upgrades

- Customer Initiated Upgrades

- Order, download, and install machine upgrades for your System z server... without making a service call!

IBM Systems > System z > Resource Link >

Customer Initiated Upgrade

Customer Initiated Upgrade (CIU), an application that allows customers to upgrade a system, is available on Resource Link exclusively for our System z customers with a signed CIU agreement in place.

Because no IBM service call is required, CIU simplifies planning and installation. CIU allows customers to electronically order, download, and install machine upgrades such as:

- Upgrade model capacity
- Add Integrated Coupling Facility (ICF)
- Add Integrated Facility for Linux (IFL)
- Add System Assist Processor (SAP)
- Add System z Application Assist Processor (zAAP)
- Add System z Integrated Information Processor (zIIP)
- Increase memory (permanent only)

Supporting a team of both IBM support and System z customers, CIU is an electronic, interactive process from start to finish - from initiating an order based on specific machine configuration and thresholds, to pricing and billing:

- IBM Administrator creates a customer machine profile
- Pricing options are established
- Customer configures an upgrade order
- Customer creates the order and is notified by e-mail when the upgrade is download ready
- Customer downloads and installs the upgrade through the server Hardware Management Console (HMC)
- Customer is billed for the upgrade

Support for CIU
→ [CIU contacts for IBM Sales and Support](#)

Resource Link – CHPID Mapping Tool

- CHPID Mapping Tool

- If you've recently ordered an IBM System z server, use this tool to get ready for system installation by customizing its CHPID assignments in advance.

IBM Systems > System z > Resource Link > Tools >

CHPID Mapping Tool

Use the CHPID Mapping Tool to map I/O ports of supported System z servers to channel path identifiers (CHPIDs) in your IOCP source statements. This mapping helps to avoid connecting critical paths to single-points-of-failure. The CHPID Mapping Tool can save you time by minimizing or eliminating changes when you get new hardware or upgrade existing hardware.

[CHPID Mapping Tool version 6.16](#) supports the following System z servers:

- zEnterprise BC12
- System z10 EC
- System z9 EC
- zEnterprise EC12
- System z10 BC
- System z9 BC
- zEnterprise 196
- zEnterprise 114

[CHPID Mapping Tool version 5.58](#) supports the following System z servers:

- zEnterprise BC12
- System z10 EC
- zSeries 990

[CHPID Mapping Tool version 6.16](#)

[User's guide:](#)

- zEC12
- zBC12
- z196
- z114
- z10 EC
- z10 BC
- z9 EC
- z9 BC
- z990
- z890

[CHPID Mapping Tool version 5.58](#)

Go to Tools → CHPID Mapping Tool to download the setup program

IBM Channel Path ID Availability and Mapping Tool

Version 6.16

Licensed Materials - Property of IBM Corp. Copyright International Business Machines Corporation 2002, 2011. All rights reserved. US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

BUILT ON
eclipse
java
COMPATIBLE

Resource Link – Power and Weight Estimation

- Power and Weight Estimation

- Estimate the power usage and weight of an existing machine or a proposed configuration.

The screenshot displays the IBM System z Hardware Management Console (HMC) 2.12.1 interface. The main content area is titled "Power and weight estimation" and describes the Power Estimation Tool. A blue callout bubble points to the "Tools" link in the left navigation menu, with the text: "Go to Tools → Power and weight estimation to access online tool".

The configuration table on the right lists various features and their values:

Feature	FC	Configuration
Model		H43
Voltage group		208 to 240V group
Line voltage		208
Water cooled	0149	No
Room temp		<28C (82F)
Installed altitude (in feet)		0
Workload		Normal
Flexible memory		No
Balanced power	3003	No
Internal battery	3213	No
Top exit I/O cabling	7942	No
I/O cages	4007	0
I/O drawers	4008	0
I/O drawers	4009	

A blue callout bubble points to the configuration table, with the text: "Vital Product Data may be used to fill in details for registered machines".

Resource Link – Customized Planning

- Customized Planning

- If you've recently ordered a System z server, get installation planning information customized specifically for your machine.

The screenshot shows the IBM System z Hardware Management Console (HMC) 2.12.1 Resource Link page. The page is titled "Physical planning" and displays a list of links for various System z models. The "zEnterprise EC12" link is circled in blue. The page also includes a "Download" section with links to Adobe Acrobat Reader and a "Feedback" link.

IBM Systems > System z > Resource Link > Planning >

Physical planning

Your machine information

- zEC12 (12)
- z196 (17)
- z114 (1)

System z

- zEnterprise EC12**
 - Customized planning aids
 - Installation Manual - Physical Planning (GC28-6914)
- zEnterprise BC12**
 - Customized planning aids
 - Installation Manual - Physical Planning (GC28-6923)
- zEnterprise 196**
 - Customized planning aids
 - Installation Manual - Physical Planning (GC28-6897)
- zEnterprise 114**
 - Customized planning aids
 - Installation Manual - Physical Planning (GC28-6907)
- zEnterprise BladeCenter Extension (zBX)**
 - Customized planning aids
 - Installation Manual - Physical Planning (GC27-2611)

zSeries & S/390

- General information for planning a physical site: zSeries
- zSeries 990**
 - Installation Manual - Physical Planning (GC28-6824)
- zSeries 890**
 - Installation Manual - Physical Planning (GC28-6828)
- zSeries 900**
 - Installation Manual - Physical Planning (2064-IMPP)
- zSeries 800**
 - Installation Manual - Physical Planning (2066-IMPP)
- G6 and G5 Parallel Enterprise Servers**
 - Installation Manual - Physical Planning (GC22-7106)

Download

- Adobe Acrobat Reader

Feedback

Resource Link – Machine and Hiper Alerts

- Machine and Hiper Alerts

- Machine Alerts are notifications of problems that may affect your System z server's operation.
- Hiper Alerts are notifications of highly pervasive problems that may affect your System z server's microcode operation.
- These alerts are important because without the HIPER MCL installed the processor may encounter an unscheduled outage.

Access through Problem Solving

IBM Systems > System z > Resource Link >

Problem solving

Your machine information

- z196 (17)
- z114 (1)

Hardware

Known defects/problems

- Exception letters

Alerts

- Machine alerts
- Hiper alerts
- Red alerts
- Security alerts

Software

Alerts

- Security alerts

Service bulletins

- Service bulletins and advisories

Report problems

- Software problem reporting

Resource Link – Notifications

- Notifications

- Machine information, publications, alerts... subscribe to these and other areas of technical support and you'll be notified by email when new information becomes available
- Look for the subscribe link on the right-side of the website

Subscribe

→ [Subscribe to 2827-76D75](#)

The screenshot shows the IBM Resource Link website. The top navigation bar includes the IBM logo, 'Industries & solutions', 'Services', 'Products', 'Support & downloads', 'My IBM', and a search bar. The main content area is titled 'Resource Link' and is divided into several sections: 'Your machine information' (listing zEC12, zBC12, z196, and System z10 EC), 'Mainframe products' (listing zEnterprise EC12, BC12, 196, 114, BladeCenter E, and zBX models), 'Key resources' (listing Machine information, Publications, Education, and a link to report a problem), and 'Your settings' (listing My Resource Link access, My notifications, Hints, tips & FAQs, Suggested browser levels, Site FAQs, Tips for viewing PDFs, and what you'll need). The 'My notifications' link is circled in blue. A blue callout box points to this link with the text: 'Manage your subscription through the My Notification link on the home page'. On the right side of the page, there is a vertical sidebar with social media icons and a 'Print' icon.

धन्यवाद

Hindi

Kiitos

Finnish

ขอบพระคุณ

Thai

Спасибо

Russian

Gracias

Spanish

شكراً

Arabic

多謝

Traditional Chinese

Thank You

English

Dank U wel

Dutch

Takk

Norwegian

Tack

Swedish

Grazie

Italian

Obrigado

Portuguese

Merci

French

多谢

Simplified Chinese

நன்றி

Tamil

ありがとうございました

Japanese

Danke

German

감사합니다

Korean

Q&A



SHARE in Pittsburgh – Session 15801



The following are trademarks of the International Business Machines Corporation in the United States and/or other countries.

APPN*	IBM logo*	Resource Link
CICS*	IMS	RMF
DB2*	Infoprint*	S/390*
DB2 Connect	Language Environment*	S/390 Parallel Enterprise Server
e-business logo*	MQSeries*	Sysplex Timer*
Enterprise Storage Server*	Multiprise*	TotalStorage*
ESCON*	NetView*	VM/ESA*
FICON	On demand business logo	VSE/ESA
FICON Express	OS/2*	VTAM*
GDPS*	OS/390*	WebSphere*
Geographically Dispersed Parallel Sysplex	Parallel Sysplex*	z/Architecture
HiperSockets	POWER	z/OS*
HyperSwap	PR/SM	z/VM*
IBM	Processor Resource/Systems Manager	zSeries*
IBM eServer	pSeries*	zSeries Entry License Charge
IBM ^*	RACF*	

* Registered trademarks of IBM Corporation

The following are trademarks or registered trademarks of other companies.

Java and all Java-related trademarks and logos are trademarks of Sun Microsystems, Inc., in the United States and other countries

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation.

Red Hat, the Red Hat "Shadow Man" logo, and all Red Hat-based trademarks and logos are trademarks or registered trademarks of Red Hat, Inc., in the United States and other countries.

SET and Secure Electronic Transaction are trademarks owned by SET Secure Electronic Transaction LLC.

* All other products may be trademarks or registered trademarks of their respective companies.

Notes:

Performance is in Internal Throughput Rate (ITR) ratio based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput improvements equivalent to the performance ratios stated here.

IBM hardware products are manufactured from new parts, or new and serviceable used parts. Regardless, our warranty terms apply.

All customer examples cited or described in this presentation are presented as illustrations of the manner in which some customers have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics will vary depending on individual customer configurations and conditions.

This publication was produced in the United States. IBM may not offer the products, services or features discussed in this document in other countries, and the information may be subject to change without notice. Consult your local IBM business contact for information on the product or services available in your area.

All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

Information about non-IBM products is obtained from the manufacturers of those products or their published announcements. IBM has not tested those products and cannot confirm the performance, compatibility, or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

Prices subject to change without notice. Contact your IBM representative or Business Partner for the most current pricing in your geography.

Please see <http://www.ibm.com/legal/copytrade.shtml> for copyright and trademark information.