



Beyond Code Webcast

Maximize the Value of Your Mainframe Environment

MAINFRAME ESSENIALS

January 23, 2023

Copyright © 2022 Broadcom. All Rights Reserved. The term "Broadcom" refers to Broadcom, Inc. and/or its subsidiaries.

| Value That Goes Beyond Code

Build a new generation of mainframers



Vitality Residency Program



No-Cost Online Education



Mainframe Insights

Change and innovate with confidence



Expert Change Planning



Win-No-Fee Services Program



Design Thinking Workshops

Optimize your mainframe software



Mainframe Essentials



Custom MRI Assessments



Mainframe Consumption Licensing

Introducing.....

Mainframe Essentials



| Familiar?



“

As a Systems Programmer:

- ✓ I like to **prioritize my tasks** to satisfy the demands of management and the user community.
- ✓ I **lack the time and tools** to determine best practices, product optimization, and exploitation.
- ✓ A **consistent and standardized process** from my vendors would **enable me to optimize both my time and the products** we use.”

I'm not sure what
maintenance is available but
not applied

Lack of standardization
across my environment

It can be time consuming
working with product
support

Organizations don't have
individual experts for each
vendor product

I need an easy way to
manage Broadcom Common
Component Services installs

What is Mainframe Essentials?

A powerful collaboration of Broadcom Mainframe Software Capabilities

Expert Assessments

Broadcom Support
tools

JES displays

Insights to Broadcom
Common Component
Services

Software Risk
Assessment

Software Risk Assessment

Managing your software portfolio can be challenging

- ☐ What maintenance is available?
- ☐ What maintenance have I deployed and not deployed?
- ☐ What is the risk of not deploying maintenance?
- ☐ Is any software I have installed out of support?
- ☐ Do I have any expiring keyring tokens that I need to renew?



Software Risk Assessment Menu

Several commands to help assess risk from a convenient, easy-to-use menu

```
SYSVIEW TS01 ----- MENU, Essentials - Software Risk Assessment -----
Option ====> _
                                                                    Scroll *====> PAGE
                                                                    Lvl 2 Row 1-16/16
-----
Option Command  Parameters      Description
-----
  1 PTFLIST
  2 PTFS        DETAIL      PTF Analysis Product List
  3 PTFS        SUMMARY     PTF Analysis Detail
                               PTF Analysis Risk Summary
  4 CSIQQUERY    SMP/E CSI GIMAPI Query
  5 MODIDS       DETAIL      Module ID Analysis - Detail
  6 MODIDS       SUMMARY     Module ID Analysis - Summary
  7 PRODLIFE
  8 MENU         KEYRINGS    Keyrings menu

SMP/E CSI: GSVXDEV.MOTM.SYSVW170.DEV.CSI
XMLLIB   : SYSVIEW.DEV.BASE.XMLDATA.SYSTEM
LOADLIB  : GSVXDEV.MOTM.SYSVW170.GA.P2.LOADLIB
```


PTFLIST – List of SMP/E Maintained Products

```

SYSVIEW TSO1 ----- PTFLIST, PTF Analysis Product List -----
Command =====> _
                                                                    Scroll *====> PAGE
                                                                    Lvl 2 Row 1-17/17 Col 1-131/339
Member SVWXPTFL Dsn MCSSE01.SYSVW160.PARMLIB.USER
----- SYSVIEW.SYSVW170.PARMLIB -----
Cmd      Vendor      Product      PTFID      Description
-----
          Broadcom    ACF2         NONE       * All Functions
          .           .           CAX1G00    ACF2-MVS
          .           Netmaster   CC17C20    NetMaster File Transfer Management r12.2
          .           .           CC11C20    NetMaster Network Management for TCP/IP r12.2
          .           OPS/MVS     NONE       OPS/MVS 13.5
          .           .           CCLXE00    OPS/MVS 14.0
          .           SYSVIEW     CNM4F00    SYSVIEW 15.0
          .           .           CNM4G00    SYSVIEW 16.0
          .           .           CNM4H00    SYSVIEW 17.0
          IBM         IBM z/OS 2.5 NONE       Development LPARs
          .           IBM CICS     NONE       CICS TS 5.4
          .           .           NONE       CICS TS 5.5
          .           .           NONE       CICS TS 5.6
          .           JAVA        HJVB800    IBM 64-Bit SDK for z/OS Java
          .           PYTHON      HAMB380    IBM Python for z/OS 3.8.0
          .           ZOSCONNECT  HZC3000    IBM z/OS Connect Enterprise Edition V3
          .           .           NONE       IBM z/OS Connect Enterprise Edition V3
***** End of Data *****

```

PTFS Detail – Analysis of Product Maintenance

```

SYSVIEW TSO1 ----- PTF DETAIL, PTF Analysis Detail -----
Command =====>

----- Lvl 3 Row 10-30/44 Col 1-131/331 -----
Formats DEFAULT ATRISK DATES RISK
Status NoSRT NoLIM NoSEL NoDST NoPFX NoOWN NoUPD NoPRT NoCAP

-----
FMID CNM4H00      CSI      QA SYSVIEW.SYSVW170.CSI
TZone ALLTZONES   XMLLIB   QA SYSVIEW.SYSVW170.XML
Mode  DETAIL      Retrieve Successful

----- Out Of Support ----- End Of Service -----
Age  Warn  Problem Warning ProdId  Version  Warn  Risk  EOSDate
365  75%    0      0 NM4      17.00.00 365  NONE  NONE

----- Software Risk Assessment -----
Risk  AtRisk NotReceived NotApplied NoRunTime APARS Hipers SecInts  PEs  PRPs
HIGH  21      20      0      0      1      1      1      0      2

-----
Cmd  SYSMOD  Type  Description  Status  Risk  Published  Applied
-----
LU08011 DEFECT  DASHBOARD PROBLEMS WHEN DISPLAYING ALERTS  NOTRECEIVED  MEDIUM  2022/11/08
LU08071 DEFECT  INCORRECT MQ CHANNEL DATA ON MQ 9.3.1      NOTRECEIVED  MEDIUM  2022/11/08
LU07917 DEFECT  SECURITY OR INTEGRITY PROBLEM                NOTRECEIVED  HIGH      2022/11/04
LU07796 DEFECT  IMSNODES INCORRECT DEQUEUE, QUEUE COUNTS FOR ALL NODES  NOTRECEIVED  MEDIUM  2022/11/02
LU07933 DEFECT  IMS LOGGER DOESN'T RESTART ON CELL POOL FULL CONDITION  NOTRECEIVED  MEDIUM  2022/11/01
LT07759 APAR     NEW IMS TRANSACTION AND REGION SUMMARY METRICS, FASTMON EXIT  APAR        LOW      2022/10/27 2022/10/27
LU07602 DEFECT  GSV1048E Z/OS CONNECT JVM AGENT INTERCEPTOR FAILED  NOTRECEIVED  MEDIUM  2022/10/27
LU07759 FEATURE NEW IMS TRANSACTION AND REGION SUMMARY METRICS, FASTMON EXIT  NOTRECEIVED  MEDIUM  2022/10/27
LU07870 DEFECT  CICS SYS TRANRATE METRIC VALUE INCORRECT  NOTRECEIVED  MEDIUM  2022/10/27
LU07671 DEFECT  MSMU0001E UNEXPECTED ERROR DURING CSM DEPLOYMENT  NOTRECEIVED  MEDIUM  2022/10/24
LU07568 DEFECT  IMSREGNS CLASS FIELD ALTER TARGETS WRONG IMS ID  SUPERSEDED  NONE     2022/10/21
LU07727 DEFECT  ABEND S0C4-11 ISSUING IPPORTS COMMAND  NOTRECEIVED  MEDIUM  2022/10/17
LU07693 DEFECT  ABEND S0C4 GSVKIRLL ISSUING IRLMLOCK COMMAND  NOTRECEIVED  MEDIUM  2022/10/12
LU07136 DEFECT  AUDIT RECORD NOT GENERATED FOR ADMIN FOR SECURITY CMD  APPLIED      NONE     2022/10/07 2022/10/10
LU07661 DEFECT  SECURITY OR INTEGRITY PROBLEM  APPLIED      NONE     2022/10/07 2022/10/10
LU07310 DEFECT  POSSIBLE LOOP CONDITION WHEN STARTING APPLMON TASK  APPLIED      NONE     2022/10/06 2022/10/10
LU07607 DEFECT  ALERT COMMANDS DO NOT WORK IN XSYSTEM MODE  APPLIED      NONE     2022/10/06 2022/10/10
LU06849 DEFECT  ABEND S0C4 OR GPF CRASH ISSUING Z/OS CONNECT COMMANDS  APPLIED      NONE     2022/10/04 2022/10/10
LU07528 DEFECT  SOFTWARE & STATUS COMMANDS OPS/MVS, RACF, & JES2 VERSIONS  APPLIED      NONE     2022/10/04 2022/10/10
LU07573 DEFECT  ABEND S0C4 IMS LOGGER PROCESSING FASTPATH TRANSACTION  APPLIED      NONE     2022/10/04 2022/10/10
LU07579 DEFECT  ABEND S0C4-38 ISSUING THE JPATH COMMAND  APPLIED      NONE     2022/10/03 2022/10/10

```

PTFS Detail – Broadcom PTF Details

```
SYSVIEW TS01 ----- DETAILS.PTF, Product PTF Analysis -----
Command =====> Scroll *====> PAGE
----- Lvl 4 Row 1-33/80 Col 1-131/254
Parms: PTF TYPE DEFECT MEMBER LU08011 DSN * FMID CNM4H00
-----
Table Of Contents
  PTF Information
  Description
PTF Information -----
FMID          CNM4H00
SYSMOD        LU08011
Description   DASHBOARD PROBLEMS WHEN DISPLAYING ALERTS
Type          DEFECT
Description -----

PROBLEM DESCRIPTION:
Dashboards that display exception alerts may have missing fields,
truncated data, or display errors. This is related to changes made
to the alert-related, PLOT, and XVESTRAC commands in base 17.0.

SYMPTOMS:
DASHBOARD ACTIVITY
-----
The ALERTS pane doesn't show the resource value(s).

DASHBOARD CICS
-----
The CALERTS pane doesn't show the resource values, and the panes for
plot Tran Lifetime, Tran CPU time, and Tran Wait to Run Time get error:

PLOT016E Requested metric was not found
-----
```


z/OSMF Software Toolkit Plugin

Software Toolkit
PTF Analysis Tool

PTF Summary

PTF List

Settings

User

Use Dark Mode

PTF list

Export data

SYSMOD	Type	Description	Status	Published	Applied	Hiper	Secint	PRP	SPE
▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
LU07707	DEFECT	MISSING IMS TRANSACTION :	APPLIED	12/9/2022, 12:00:00 AM	12/9/2022, 12:00:00 AM				
LU08362	DEFECT	WMSYSSUM DETAIL RESOURC	APPLIED	12/6/2022, 12:00:00 AM	12/6/2022, 12:00:00 AM				
LU08111	DEFECT	ABEND U2999-802 ISSUING IN	APPLIED	12/2/2022, 12:00:00 AM	12/2/2022, 12:00:00 AM				
LU08378	DEFECT	CTHRESH PARMLIB DEFINITIC	APPLIED	12/2/2022, 12:00:00 AM	12/2/2022, 12:00:00 AM	HIPER		PRP	
LU06852	DEFECT	EBCDIC TO ASCII TRANSLATIC	APPLIED	11/30/2022, 12:00:00 AM	11/30/2022, 12:00:00 AM				
LU08294	DEFECT	MQSR038E CLEAR QLOCAL FA	APPLIED	11/30/2022, 12:00:00 AM	11/30/2022, 12:00:00 AM				
LU08292	DEFECT	CTRANLOG FILES MISSING IF	APPLIED	11/23/2022, 12:00:00 AM	11/23/2022, 12:00:00 AM				
LU08271	FEATURE	USER EVENT CAPTURE AND R	APPLIED	11/22/2022, 12:00:00 AM	11/22/2022, 12:00:00 AM				SPE
LU07888	DEFECT	INCORRECT DSNAME DISPLA'	APPLIED	11/17/2022, 12:00:00 AM	11/17/2022, 12:00:00 AM				
LU08011	DEFECT	DASHBOARD PROBLEMS WHE	APPLIED	11/8/2022, 12:00:00 AM	11/8/2022, 12:00:00 AM				
LU08071	DEFECT	INCORRECT MQ CHANNEL DA	APPLIED	11/8/2022, 12:00:00 AM	11/8/2022, 12:00:00 AM				
LU07917	DEFECT	SECURITY OR INTEGRITY PRO	APPLIED	11/3/2022, 1:00:00 AM	11/3/2022, 1:00:00 AM		SECINT	PRP	

<

K < 1 > >

>

PRODLIFE – Product Lifecycle Command

SYSVIEW TSO1 ----- PRODLIFE, Product Lifecycle -----									
Command =====> -									
----- Lvl 2 Row 137-164/3626 Col 1-131/413									
Formats DEFAULT DAYSLEFT EOS									
Status SRT NoLIM SEL NoDST NoPFX NoOWN NoUPD NoPRT NoCAP									

Member SVWXPDL Dsn SYSVIEW.SYSVW170.XML									
EOSWarn 365									

Cmd	Vendor	Product	Version	EOSDate	DaysLeft	EOLDate	GADate	GAAnnounce	ProdId
	IBM	IBM Z Open Automation Utilities	01.00.02	2023/03/31	105		2020/03/13	2020/02/18	5698-PA1
	.	IBM Z Operations Insight Suite	01.01.00	2023/03/31	105		2019/09/06	2019/08/27	5698-ABP
	.	.	01.02.00	2023/03/31	105		2020/03/13	2020/02/18	.
	Broadcom	COMPLIANCE EVENT MANAGER	05.00.00	2023/02/28	74		2016/10/06		CEM
	.	DATA CONTENT DISCOVERY	01.00.00	2023/02/28	74		2015/11/12		FEY
	.	.	02.00.00	2023/02/28	74		2018/06/22		.
	IBM	IBM Tivoli Asset Discovery for z/OS	08.01.00	2023/02/28	74		2013/02/15	2013/02/12	5698-AA4
	Broadcom	MAINFRAME APPLICATION TUNER	11.00.00	2023/01/31	46		2016/12/22		EES
	.	.	11.00.00	2023/01/31	46		2016/12/22		EET
	.	.	11.00.00	2023/01/31	46		2016/12/22		EY3
	IBM	AFP Upload	04.06.00	2022/12/31	15		2017/12/15	2017/11/21	5655-M32
	.	Optim Archive Ent Ed Open DM	11.07.00	2022/12/16	0		2018/09/14	2018/09/11	5655-ARF
	.	Optim Ent Ed NonR Connectors	11.07.00	2022/12/16	0		2018/09/14	2018/09/11	5655-ARG
	Broadcom	CA 1 Flexible Storage	15.00.00	2022/12/14		2022/12/14			AL0
	.	Tape Encryption	15.00.00	2022/12/14		2022/12/14			D4B
	.	Vantage Storage Resource Manager	14.00.00	2022/12/01			2016/09/30		CTU
	IBM	AD/CYCLE C/370	01.02.00	2022/11/30			1994/03/25	1994/03/08	5688-216
	.	C/C++ MVS	03.02.00	2022/11/30			1995/12/22	1995/09/26	5655-121
	.	C/370 COMPILER	02.01.00	2022/11/30			1991/05/24	1991/02/19	5688-187
	.	C/370 LIBRARY	02.01.00	2022/11/30				1991/02/19	5688-188
	.	.	02.02.00	2022/11/30			1994/06/30	1994/03/08	.

Retrieve Broadcom PTFs via API

SVWXCERT xmllib configuration member

— See help topic “Real-time Retrieval of Broadcom PTFs”

```
SYSVIEW TSO1 ----- HELP, Real-time Retrieval of Broadcom PTFs -----
Command =====>                                                    Scroll *====> PAGE
----- Lvl 3 Row 1-37/149 -----
Real-time Retrieval of Broadcom PTFs

  Overview
  Download User Certificate from Broadcom Support Online
  Download Digicert Certificates
  Upload Certificates to z/OS
  Add Certificates to SAF Keyring
  Configure SVWXCERT

-----
Overview

The PTFS command in SYSVIEW has the ability to retrieve a list of all PTFs
published for Broadcom products in real-time over HTTPS. By having the
latest PTF information, you can accurately assess the risk level associated
with maintenance on your systems. Use these instructions to configure the
real-time retrieval of Broadcom PTFs.
```

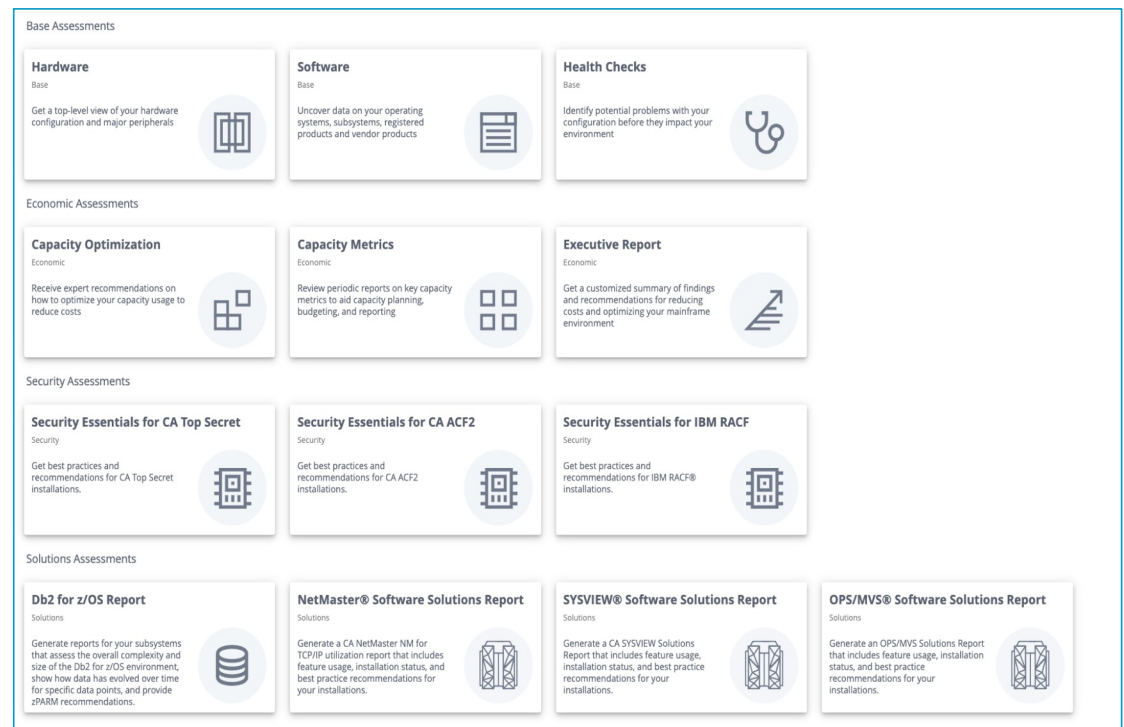

Keyrings & Certificates

SYSVIEW TS01 ----- KEYRINGS, Keyrings and Certificates -----							
Command =====> _							
----- Lvl 2 Row 223-251/344 Col 1-131/200							
Status SRT NoLIM NoSEL NoDST NoPFX NoOWN NoUPD NoPRT NoCAP							
Owner ALL Keyring ALL							
ExpireWarn 120 Status Successful							
Cmd	Keyring	Certificate	Owner	CertOwner	Usage	ExpireDate	ExpireTime
	KEYRING1	Certificate1	USERID1	CERTAUTH	CERTAUTH	2023/04/15	20:00:25
	.	.	USERID2	CERTAUTH	CERTAUTH	2023/04/15	20:00:25
	.	.	USERID3	CERTAUTH	CERTAUTH	2023/04/15	20:00:25
	.	.	USERID4	CERTAUTH	CERTAUTH	2023/04/15	20:00:25
	KEYRING2	Certificate2	USERID1	CERTSITE	PERSONAL	2023/04/11	15:56:13
	.	.	USERID2	CERTSITE	PERSONAL	2023/04/11	15:56:13
	.	.	USERID3	CERTSITE	PERSONAL	2023/04/11	15:56:13
	.	.	USERID4	CERTSITE	PERSONAL	2023/04/11	15:56:13
	.	.	USERID5	CERTSITE	PERSONAL	2023/04/11	15:56:13
	.	.	USERID6	CERTSITE	PERSONAL	2023/04/11	15:56:13
	.	.	USERID7	CERTSITE	PERSONAL	2023/04/11	15:56:13
	KEYRING3	Certificate3	USERID1	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	KEYRING4	Certificate4	USERID1	CERTSITE	PERSONAL	2023/03/08	12:00:00
	.	Certificate5	USERID1	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	KEYRING5	Certificate6	USERID1	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	.	.	USERID2	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	.	.	USERID3	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	.	.	USERID4	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	.	.	USERID5	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	.	.	USERID6	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	KEYRING6	Certificate7	USERID1	CERTSITE	PERSONAL	2023/03/08	12:00:00
	.	Certificate8	USERID1	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	KEYRING7	Certificate9	USERID1	CERTSITE	CERTAUTH	2023/03/08	12:00:00
	.	Certificate10	USERID1	CERTAUTH	CERTAUTH	2023/03/08	12:00:00
	KEYRING8	Certificate11	USERID1	TCPIP	PERSONAL	2022/12/13	20:38:39
	KEYRING9	Certificate12	USERID1	CERTSITE	PERSONAL	2022/11/09	23:59:59
	.	Certificate13	USERID1	CERTAUTH	CERTAUTH	2022/11/09	23:59:59

Mainframe Resource Intelligence

Mainframe Essentials Offering

MRI is a modern managed service assessment tool designed to analyze mainframe environments and provide you with insights, findings, and recommendations, customized and unique to your mainframe environment.



Mainframe Essentials

Mainframe Resource Intelligence

MRI Contains the following assessments:

- Executive Report
- Security Essentials for ACF2, Top Secret, and RACF
- Capacity Optimization Assessment
- Capacity Metrics Report
- Hardware Assessment
- Software Assessment
- Health Assessment
- Software Standardization Assessment
- Db2 Report for z/OS
- Software Solutions Report for NetMaster, SYSVIEW and OPS/MVS



Mainframe Essentials

Mainframe Essentials provides these capabilities through both on and off platform solutions:

- ✓ No ongoing data collection is configured and does not compete with other monitoring tools
- ✓ zIIP offload is maximized to minimize mainframe resource costs
- ✓ System resources are consumed when a user issues a command or runs a toolkit batch job to gather data for processing
- ✓ Gathered data is uploaded and processed, analyzed and reported in a secure managed service outside of your mainframe environment

| Mainframe Essentials

How do I get started?

Available to all currently licensed
Broadcom Mainframe Software
customers today!

Download from your Support
download page under
'Additional Downloads' and
start utilizing these no charge
tools to manage your
mainframe investment

← OPS/MVS Event Management & Automation for JES2 MVS 14.0

Primary Downloads **Additional Downloads**

Search 14.0 MVS 0000 English

Download Selected Expand All

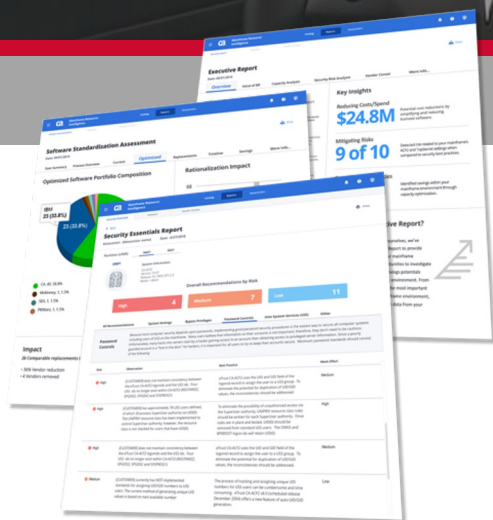
Chorus Software Manager	Release 6.0	Service Pack 0000	Packlist ID 485488	Copy	>
Common Services for z/OS	Release 15.0	Service Pack 0000	Packlist ID 420842	Copy	>
Datacom/AD	Release 15.1	Service Pack \$2101	Packlist ID 500863	Copy	>
Easytrieve Report Generator for Common Services	Release 11.6	Service Pack 0000	Packlist ID 429610	Copy	>
Mainframe Essentials	Release 1.0	Service Pack 0000	Packlist ID \$12182	Copy	▼

File Name	Last Updated	Download
Mainframe Essentials General Availability Announcement Mainframe Essentials General Availability Announcement.pdf 224.82 KB	Aug 23, 2022 12:43PM	<input type="checkbox"/>
Mainframe Resource Intelligence Mainframe Resource Intelligence.pdf 838.87 KB	Aug 23, 2022 12:38PM	<input type="checkbox"/>

Top

Get started with MRI today.

Get started at mri.broadcom.com



Capacity Analysis

Surface opportunities to optimize capacity usage and reduce costs



Security Risk Analysis

Discover how your mainframe security access controls stack up against industry best practices.



Asset Analysis

Identify your hardware & software assets in your mainframe environment



Software Licensing Analysis Uncover opportunities to simplify and save on software costs across vendors

| Mainframe Essentials Education



Accessed via the Broadcom Support Portal



[Mainframe Essentials Playlist](#)



[Mainframe Education Community](#)

Get Started in SYSVIEW Essentials | Software Risk Assessment | Familiarize Yourself With MRI

| Value That Goes Beyond Code

Build a new generation of mainframers



Vitality Residency Program



No-Cost Online Education



Mainframe Insights

Change and innovate with confidence



Expert Change Planning



Win-No-Fee Services Program



Design Thinking Workshops

Optimize your mainframe software



Mainframe Essentials



Custom MRI Assessments



Mainframe Consumption Licensing



Thank You