BMC is releasing version 2.0.00 of the Cost Analyzer for zEnterprise product. Cost Analyzer is a web-based product that helps you analyze the costs of IBM software products based on a sub-capacity Monthly License Charge (MLC) contract in an IBM z/OS environment.

**Note**
Before you begin installation, BMC recommends that you check the Support Central website at [http://www.bmc.com/support](http://www.bmc.com/support) for:
- Updated product documentation (for example, flashes and technical bulletins)
- Product downloads, patches, and fixes (PTFs)
- Product availability and compatibility data

These release notes supplement and supersede the product documentation and discuss product enhancements.

The following topics are discussed:

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What's new

These topics describe the changes or new features in this release.

In general, the changes and enhancements to Cost Analyzer accomplish the following goals:

- Job/STC reporting, consisting of interactive reports that detail key metrics for the most active jobs for particular workloads on specific LPARs
- Expansion of the Planning tool, by providing "What-If" capabilities that can be performed against batch jobs
- Integration with the Compuware iStrobe web-based application, enabling you to launch iStrobe from a Monthly Summary Report to access information about a specific LPAR during a selected time range
- Workload filtering enhancements, enabling a Model Builder Task to process large data files with or without filters

Job/STC reporting

This release introduces batch reporting capabilities by adding the ability to generate Job/STC Reports when working with the Workload Views level in a Monthly Summary report.

Insight into the contribution of batch jobs to the peak R4HA

The new Job/STC Report provides a comprehensive look at your cost data resulting from the contribution of batch jobs to the R4HA peak interval or for any interval that occurred in the month. When viewing aggregated workloads across LPARs for any MLC product, you can generate a job details report for any selection of workload types and LPARs.

By selecting the workload types and LPARs to include in the report, you can generate reports to identify the individual contribution of jobs and examine metrics that detail the significant hours affecting costs.
The following sample Workload View presents the aggregated view of workloads across LPARs for z/OS V2.

Figure 1: Sample Workload Views level

Charts on the Workload View show you how the workload types contributed to the total CPC peak value, aggregated for all listed LPARs. You can add or remove the contribution of particular LPARs from the workload types to refine the perspective.

From any configuration of workload types and LPARs, you can launch to a view that generates a Job/STC report, which provides a breakdown of the batch jobs to the peak R4HA.

Job/STC Report analysis

The Job/STC Report provides detailed metrics about the contribution of the top 50 jobs to the R4HA peak in each of the 4 hours that comprise the peak interval.

Figure 2: Sample Job/STC Report

Using the interactive features of the report, you can:
- Change the interval to recalculate the report and display metrics of any 4-hour period
- Apply a filter to refine the list of job allocations for all periods and months
- Sort the column data to reorganize the list based on the column criteria

An examination of these reports can provide key insight into how batch jobs are affecting MLC costs.

**Expansion of the Planning tool**

The Planning tool now provides Job/STC cost optimization plans to:

- Evaluate modifications to the existing batch workload configurations
- Estimate the effects of different cost-reduction actions

**Performing operations to evaluate system changes**

A Job/STC plan uses existing historical monthly models as a starting point or baseline for exercises that demonstrate the effects of changes to your system. You can perform the following actions to see the effects on your monthly costs:

- Change the start time of batch jobs
- Move batch jobs to a different LPAR on the same or different CPC
- Scale batch jobs
- Delete batch jobs from a system

After execution of any of these operations, the plan is re-evaluated and the cost impact report will be generated.
Figure 3 on page 5 shows a sample Job/STC Operations view from a Job/STC plan, where you can examine an Evaluation Preview chart that displays a preview of any operations you perform.

**Figure 3: Sample Job/STC Operations view**

The Evaluation Preview chart lets you fine-tune your operations, before applying the changes so you can discover the most efficient configurations for further cost analysis. After previewing the operations, you can view the results of your new configuration in an Evaluation Summary Report that details the cost effects.

**UIE VISFILE command to support data collection for Job/STC Reports**

In order to enable data collection for use in Job/STC reports, you must include the following subcommand in the VISFILE command:

```
VISFILE INCLUDETBL=JOBD
```

**Integration with Compuware iStrobe**

Cost Analyzer lets you launch the Compuware iStrobe web-based application from any Monthly Summary Report to obtain additional metrics about a selected LPAR and time range. The iStrobe metrics offer additional details about CPU consumption and factors contributing to the R4HA peak.
You can launch iStrobe from Cost Analyzer via the new Compuware iStrobe Launch Pad. The launch pad is available from the Workload Views level in any Monthly Summary Report.

**Figure 4: Compuware iStrobe Launch Pad in a sample Cost Analyzer Workload View**

To implement the feature, you must perform the following procedures:

- Configure the Compuware iStrobe web location.
- From a Workloads View in a Monthly Summary report, launch iStrobe for a specific LPAR.

See the *Cost Analyzer for zEnterprise User Guide* for more details.

**Workload Filtering**

This release enhances Model Builder Tasks to support the building of cost models for any workload type *without* the need to apply a filter.
**Note**

In previous versions, some workloads required a filter when building the cost models.

Workload filters can still be specified for Suites, Service Class, and Report Class workloads. For these workloads, you can enter a list of comma-delimited workload names or wildcard character patterns to be used as a filter to reduce the size of the cost model and specify which workloads to process.

**Miscellaneous enhancements**

This release adds the following enhancements:

- **Model Build performance enhancements**
  
  Dramatic improvements have been made to the building of cost models for complex datacenters with large supporting data.

- **Improvements to the Application Server Log Viewer**
  
  MLC Contract Build logs are available in the viewer. Additionally, you can now apply filters to the list of logs by message type.

**BMC Documentation Center changes**

The primary BMC Documentation Center is now available without a support login. This center offers:

- Documentation and Quick Courses for all products except Cost Optimization products

- Messages for all products, including Cost Optimization products

A new, secured Cost Optimization Documentation Center offers documentation and Quick Courses for the following products:

- BMC Application Accelerator for IMS
- BMC Cost Analyzer for zEnterprise (CAzE)
- BMC Intelligent Capping for zEnterprise (iCap)
- BMC Subsystem Optimizer for zEnterprise (Subzero)
You must log in using your BMC Support ID to access the Cost Optimization Documentation Center.

To access the Documentation Centers, go to:

- BMC Documentation Center
- BMC Cost Optimization Documentation Center

**Installation**

Download the latest version of the software by using the Electronic Product Distribution (EPD) facility. You can navigate to the EPD page from the Support Central website at [http://www.bmc.com/support](http://www.bmc.com/support).

**Note**

BMC recommends updating the Installation System each time you use it to ensure that you have the most recent information. To do so, on the Installation System Main Menu, select **Check for Installation System Update**. For additional information, see the Installation System documentation.

To request physical shipments, contact your BMC sales representative. Contact information is available on the BMC website.

This section contains software, hardware, or other requirements. For additional information, see the *Cost Analyzer for zEnterprise User Guide*.

**System requirements for the CDB server**

The CDB server requirements are as follows:

- Operating system
  
  CDB Studio Tools on the following server class operating systems:
  
  — Microsoft Windows Server 2012 R2 (64 bit)
  
  — Windows Server 2012 (64 bit)
— Windows Server 2008 R2 (64 bit)

CDB Server Studio Tools on:
— Windows 10
— Windows 8.1
— Windows 8
— Windows 7

■ Database
— Microsoft SQL Server 2012
— Microsoft SQL Server 2008
— Oracle 12.1
— Oracle 11.2
— Oracle 11.1

■ Features
— You must install Microsoft .NET Framework 4.5. or higher
— You must install and run Microsoft Message Queuing (MSMQ) Server.

■ Microsoft Internet Information Services (IIS)
You must install IIS and then enable the following components:
— IIS ASP.NET
— IIS Windows Authentication
— IIS Metabase
— IIS WCF HTTP Activation

■ 8 GB of memory

Applications server requirements for Cost Analyzer

The application server requirements are as follows:
- Operating system
  - Microsoft Windows Server 2012 R2 (64 bit)
  - Windows Server 2012 (64 bit)
  - Windows Server 2008 R2 (64 bit)

- Database
  - Microsoft SQL Server 2012
  - Microsoft SQL Server 2008
  - Oracle 12.1
  - Oracle 11.2
  - Oracle 11.1

- Additional operating system features and roles
  - Microsoft .NET Framework 4.5
  - Microsoft Message Queuing (MSMQ) Server
  - Internet Information Services (IIS) for your version of Windows, with the following items enabled:
    - IIS ASP.NET
    - IIS WCF HTTP Activation
    - IIS Windows Authentication
    - IIS Metabase

- 8 GB of memory

**Web-browser requirements for Cost Analyzer**

The web-browser server requirements are as follows:

- Operating system
  - Microsoft Windows Server 2012 R2
— Windows Server 2012
— Windows Server 2008 R2
— Windows 10
— Windows 8.1
— Windows 8
— Windows 7

■ Web-browser
— Windows Internet Explorer 8 or later
— Mozilla Firefox
— Google Chrome 44 or earlier

■ Latest version of Microsoft Silverlight

■ 4 GB of memory

■ Screen resolution of 1280 x 1024

Note
For screen resolutions lower than 1280 x 1024, BMC recommends running your web browser in full-screen mode (F11).

Update considerations

When you upgrade Cost Analyzer, consider the following items:

■ If you created multiple Model Builder Tasks for different workloads, you should create a single new Model Builder Task for all workloads.

■ You must update the cost tables by using the MSU Cost Editor.

■ You must verify the CPC configuration by using the CPC Configuration Editor.

Note
Any previous cost models are compatible with this release provided that you have installed all patch releases.
Support status

You can find the support status for specific product versions on the Support Central website. Selecting a product from the “A – Z Supported Product List” shows:

■ All versions of the product and their current support levels (full or limited)
■ Dates on which support ends

For more information about the latest support policies, see the Support Central website at http://www.bmc.com/support.

Product documentation

From the Support Central website (http://www.bmc.com/support), you can:

■ Link to the BMC Documentation Center to browse documentation sets (http://www.bmc.com/available/documentation-center.html or, for secured documentation sets, http://www.bmc.com/available/documentation-center-secure.html)

■ View Quick Course videos (short overviews of selected product concepts, tasks, or features), which are available from the following locations:
  — Documentation Center (primary center and secured center)
  — Support Central (at http://www.bmc.com/support/mainframe-demonstrations)
  — BMC Mainframe YouTube channel (https://www.youtube.com/user/BMCSoftwareMainframe)

■ View individual product documents (books and notices) within the “A – Z Supported Product List” (https://webapps.bmc.com/support/faces/az/supportlisting.jsp)

You can order hardcopy documentation from your BMC sales representative or from the support site. You can also subscribe to proactive alerts to receive e-mail messages when notices are issued.

Customer support
If you have problems with or questions about a BMC product, see the support website at http://www.bmc.com/support. You can view or download product documents, find answers to frequently asked questions, and download products and maintenance. If you do not have access to the web and you are in the United States or Canada, contact Customer Support at 1 800 537 1813. Outside the United States or Canada, contact your local BMC office or agent.

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BMC SOFTWARE INC
2101 CITYWEST BLVD, HOUSTON TX 77042-2827, USA
Telephone 1 713 918 8800 (or 1 800 841 2031 United States and Canada)
Customer Support: 1 800 537 1813 (United States and Canada) or contact your local support center