Size Matters

Properly deploying your SAP BusinessObjects BI 4.x landscape involves more than punching some numbers into a calculator and installing the right number of servers. Approaching this from a BI systems perspective means understanding how your BI system works and making intelligent decisions to ensure good system performance and stability.

This site contains resources to help you properly size and deploy SAP BusinessObjects BI 4 and SAP Lumira in both production and non-production scenarios. It is important to remember that these resources are not replacements for other existing documentation such as the Installation and Administration Guides where they provide additional information based on generally accepted best practices, internal lab tests, and customer feedback.

These resources are not a replacement for a proper sizing exercise performed by an expert BI consulting architect that can glean the nuances of your particular landscape from discussions with your stakeholders and combine that information with the resources here and his or her own personal learnings.

Sizing and Deployment Resources for SAP BusinessObjects BI 4

Every deployment requires a sizing exercise. It is critical to fully read and understand the SAP BI 4 Sizing Guide before using Quick Sizer for Sizing SAP BusinessObjects Business Intelligence Suite applications (SMP Login Required). Refer Quick Sizer Tool documentation available on main page for using Classic version.

- SAP BusinessObjects BI 4 Sizing Guide
  - Revised version includes SAP BusinessObjects BI 4.2 SP5 updates on Dec 2017.
  - Available on SAP Help Portal SAP BusinessObjects Business Intelligence Platform 4.2 SP5 under "Additional Information" section.

Sizing and Deployment Resources for SAP Lumira 1.x

- SAP Lumira Sizing Guide
  - Updated September 2016!

Sizing and Deployment Resources for SAP BusinessObjects Design
Sizing and Deployment Resources for SAP BusinessObjects Lumira 2.0

- **SAP BusinessObjects Lumira Sizing guide** with quick sizer integration is now available.
- Available on SAP Help Portal for SAP BusinessObjects Lumira under "Reference" section. You can also download PDF version for Offline usage.

INFO: SAP QuickSizer calculations for Lumira is now available for use under HANA version of Quick Sizer in conjunction with Sizing guide.

Sizing and Deployment Resources for SAP BusinessObjects Explorer

- Sizing BusinessObjects Explorer 4
- SAP BusinessObjects Explorer Sizing Guide

Sizing and Deployment Resources for SAP BusinessObjects Mobile

- SAP BusinessObjects Mobile BI Sizing Guide

Generic Performance Optimization Tips

**Server Optimizations**

- Improve BI 4.0 P&R by using Java's Parallel Garbage Collector *(Pre-set in BI 4.2 onwards)*
- Tuning Web Intelligence: Query Stripping and Server Settings
- Java Garbage collection improvements for Lumira Server for BI Platform for better stability and reduced / negligible error observation with high load on system. *(Pre-set in 2.1 SP1 onwards)*

*Apache Split*
Reduce back-end load and Improve the User Experience by 'splitting' Web content delivery: Team-up Apache and Tomcat, having them each do what they do best. Apache serves up the static content and does compression natively while Tomcat runs the Web apps. Multiple articles:

- Improving the User Experience with Apache (aka the 'Apache Split') Significant performance improvements possible while reducing load on your Web tier. Update for BI 4.1 and Apache 2.4
- Quick Guide to implementing the Apache Split for BI 4.1 and Apache 2.4

**Client Optimizations**

- Tips for Optimizing the Performance of Web Intelligence Documents
- Tips for Fine Tuning Performance of the Webi Applet Interface (Java Report Panel)

Useful Relevant Links

- Platforms Support Guide For SAP BusinessObjects Products
- BI 4.x Platform & Lumira Platform Availability Matrix (PAM):
  - BI 4.0 PAM
  - BI 4.1 PAM
  - BI 4.2 PAM
  - Lumira 2.1 PAM
• Best Practices for SAP BusinessObjects BI 4 Adaptive Processing Servers

• Splitting the Adaptive Processing Server (video)
  • How to split the APS into multiple service instances that are dedicated to specific tasks

• Large-Scale SAP BusinessObjects BI 4 Platform Deployment COIL Whitepaper
  • Description of the “MONSTA” project that simulates a large number of BI users on a multi-node deployment

• Evaluating Selected Java Best Practices for SAP BusinessObjects BI 4 on vSphere

• BI4 Pattern Books - Deploying SAP BusinessObject BI platform in the real world
  • Business Intelligence Platform - Pattern Books Index
  • BI Platform 4.x Performance Testing Pattern Book
  • SAP BI Pattern Book - Upgrading from BOE XI 3.1 to SAP BusinessObjects BI 4.2

• Interesting Blog for Lumira 2 Workflows.