A Guide to the SAP BusinessObjects SDKs: Choosing the Right Path

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Business Intelligence SDKs and Developer Integrations

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THE NEW LANGUAGE OF BI

Developer Activities

**DESIGN**
Let me create visually compelling content
Let me control the whole experience
I need to *embed* my end user solution into a larger business workflow

**ENRICH**
Let me build up the core data assets
Let me convert data to INFORMATION
Ensure the data is STANDARD TRUTH
I need to *extend* the BI Application’s capabilities

**CONSUME**
Give me APPLICATIONS to do my job, not TOOLS

Developer (IT)

Users

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Choosing the Right SDK

View Content

OpenDocument
RESTful Web Services
Mobile BI SDK

BusinessObjects SDKs
View Content

- **URL reporting (OpenDocument API)**
  - Link to another application that handles the viewing experience
  - View different formatted business analytics without navigating any folder hierarchy

- **RESTful Web Services**
  - Web Intelligence (NEW to 4.0 SP6 and 4.1)
  - Crystal Reports

- **Mobile BI SDK**

- **Understanding OpenDocument:**
Web Intelligence and Crystal Reports RESTful Web Services

SAP SDK Strategy
• RESTful Web Services is inline with SAP’s overall strategy for SDKs
• Plugs directly into BI Platform RESTful Web Services which provides the ability to connect and authenticate user to platform

Agnostic Technology
• Can be used from any development platform (Java, .Net, Ruby & Rails, etc.)
• Can be used from any computer or mobile device

Simplify and Extend Viewing Experience

Connect to the Community: http://scn.sap.com/community/restful-sdk
New Mobile BI SDK Available Today

Customize SAP BusinessObjects Mobile to align with key business needs
- Easily create a customized version of SAP BusinessObjects Mobile to meet critical business needs
- Extensive branding capabilities to deliver on corporate identity guidelines

Integrate SAP BusinessObjects Mobile into existing enterprise environments
- Integration with 3rd Party security solutions
- Preconfigured connections and policies to speed deployments

Deliver SAP BusinessObjects Mobile in the most secure and seamless way for the business
- Flexible deployment options to ensure controlled releases to business users
- Deploy via corporate app stores including SAP Afaria
Getting Started with Mobile BI SDK

Choosing the Right SDK

- **View Content**
  - OpenDocument
  - RESTful Web Services
  - Mobile BI SDK

- **Share Content**
  - SharePoint Integration
  - Report Scheduling

**BusinessObjects SDKs**
Content Sharing

Extend BI content throughout your business:

- **Report Scheduling**
- Through BI Launch Pad
- Integrate into Microsoft SharePoint 2010 as live links
- Share via e-mail, file share, Web server in popular export formats

SharePoint Integration Documentation:

Choosing the Right SDK

**BusinessObjects SDKs**

- **View Content**
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- **Share Content**
  - SharePoint Integration
  - Report Scheduling

- **Modify Reports**
  - WebI – REST SDK
  - Crystal Reports – RAS SDK
Create and modify reports

- Modify reports at runtime before viewing

  - **Common scenarios**
    - Change database location
    - Replace exiting data connection with a runtime dataset
    - Remove or suppress a field depending on user rights
    - Make batch changes to a set of reports
    - Build an online report creation or modification application
    - Exporting

- Use Report Application Server SDK for Crystal Reports 2011
- Use REST API for Web Intelligence
- Documentation Link: [http://scn.sap.com/docs/DOC-8777](http://scn.sap.com/docs/DOC-8777)
Choosing the Right SDK

BusinessObjects SDKs

View Content
- OpenDocument
- RESTful Web Services
- Mobile BI SDK

Share Content
- SharePoint Integration
- Report Scheduling

Administer
- BI Platform SDK
- Universe SDK
- OEM Customization Tool

Modify Reports
- WebI – REST SDK
- Crystal Reports – RAS SDK
Administration – BI Platform

- Administer security, users, groups, rights, and permissions
- Organize folders, reports, and objects
- Schedule reports
- Manage calendars, events, categories, and other system objects
- Content Search
- Understanding the Platform SDK: [http://scn.sap.com/docs/DOC-24215](http://scn.sap.com/docs/DOC-24215)
New Semantic Layer
- Consistent business user experience
- Trusted access to information
- Heterogeneous access over all major data sources
- Hierarchical queries and reports
- Federated multi-source access

New Semantic Layer SDK
- Programmatically build and access semantic layer information
- Authoring, security, data consumption
OEM Customization Tool

Support partners that have SaaS deployments by reducing TCO in multi-tenant environments

Reduce footprint size by customizing SAP BusinessObjects software packages

Provide a cohesive look and feel for Partners bundled products

Provide support for customization across patches
Choosing the Right SDK

**BusinessObjects SDKs**

- **View Content**
  - OpenDocument
  - RESTful Web Services
  - Mobile BI SDK

- **Share Content**
  - SharePoint Integration
  - Report Scheduling

- **Extend Functionality**
  - Lumira Visualizations SDK
  - Dashboards SDK
  - Design Studio SDK

- **Administer**
  - BI Platform SDK
  - Universe SDK
  - OEM Customization Tool

- **Modify Reports**
  - WebI – REST SDK
  - Crystal Reports – RAS SDK
BI Developer Releases in 2013
Design Studio

1 What Is Design Studio?
- **Build applications** from data stored in SAP NetWeaver BW or SAP HANA
- Users can interact with data easily in highly customizable interfaces

2 What is the SDK
- Build custom components
- Planned Launch in H2 2013

3 Why Use the SDK
- Best HANA application integration
- HTML5 alternative to Xcelsius
SAP Lumira Visualization SDK (CVOM)
Now Available! - www.sap.com/trylumira

What Is CVOM?
- Common Visualization Library across SAP
- Designed for Big Data
- Geospatial Enhanced
- Extensible Visualizations
- Share high impact visuals on nearly any device

What is the SDK
- Customize chart layout and composition
  - Extend themes, interactions and events on existing charts
  - Integrate with Third-Party libraries

Why Use the SDK
- Build nearly any chart type you can imagine
- Extensions will work in any app using CVOM (in progress)
BI Developer Releases in 2013
SAP Lumira Visualization SDK (CVOM)
Further Information

**SAP Public Web:**

- 200+ Developer Samples: [www.sdn.sap.com/irj/boc/samples#section3](http://www.sdn.sap.com/irj/boc/samples#section3)
- Product Tutorials: [www.sap.com/LearnBI](http://www.sap.com/LearnBI)

**RESTful Web Services community:** [http://scn.sap.com/community/restful-sdk](http://scn.sap.com/community/restful-sdk)

**Blogs**

Thank you

Vielen Dank

Thank you

非常感谢

आपको बहुत बहुत धन्यवाद

どうもありがとうございました

muchas gracias

merci beaucoup

grazie mille