Summary:

eQube–BI 7, the revolutionary Business Intelligence solution that Democratizes BI. eQube–BI 7 unshackles end-users to analyze enterprise-wide data on-demand while honoring the security rules of the underlying applications. It is ‘Democratizing BI with Governance’.

It interactively mashes-up data with stunning visualizations to reveal the ‘story’ behind the analytics for Actionable Insight. With eQube–BI 7, there is no need to take the data out of core applications in text (.csv) or excel format, bypassing the security rules or having expensive, laborious, and time consuming processes to populate a data warehouse for analytics.

The underlying architecture is enterprise-class scalable architecture with highly-optimized in-memory cubes that can scale out to support thousands of end-users.

The Business Challenge

For too long, end-users have been at the short-end of the stick to address their need for near real-time analytics with intuitive visualizations leading to Action. Data across the enterprise needs to be mashed-up rapidly without a need to understand the IT jargon or reliance on power-users.

To-date, processes employed to get the visibility have been laborious, expensive and slow with various IT approaches: data marts, data-warehouses, and extracting enterprise data in excel like formats. In addition, with increasing threats of data security breaches and a need to guard the intellectual property and trade-secrets, these approaches fall substantially short on Security and Governance.

In short, end users need to be unshackled from ineffective software solutions and approaches to get the analysis they want when they need it honoring the security rules.
Fact Sheet

Key Features
- Stunning visualizations with dynamic analysis capabilities
- Mash-up data from multiple applications/sources
- SAP®, IFS®, Teamcenter®, DOORS®, Primavera®, ClearQuest®, Excels, MS Project, Databases, SharePoint®, Hive™ etc.
- Analyze data honoring Security Rules
- Use of common phrases/words to build the analysis
- Develop a ‘story’ of analyzed information
- Enterprise-wide data analysis leading to Actionable Insight
- ERP, PLM, ALM, CRM, MES, Quality systems, Legacy, etc.
- Highly scalable architecture to support thousands of users
- Powerful ‘scheduler’ to productionize analysis

The eQ Approach
eQube-BI 7 is built on the revolutionary eQube platform. eQube-BI leverages many core innovations to provide the analysis on-demand. It enables end users to rapidly mash-up data from multiple applications with stunning visualizations resulting in Actionable Insight.

These innovations range from efficient connectivity to the underlying applications honoring their security rules, virtualization layer that rapidly mashes-up data from multiple applications, semantic modeling layer that lets end-users interrogate data in simple plain language, and highly-optimized ‘in-memory cubes’ delivered efficiently with stunning visualizations.

Visually build KPIs and dashboards – Stunning Visualizations with Governance
- With eQube-BI you are able to create stunning visualizations. Every visualization in eQube-BI is ‘live’ – you can drill-up/down into it to get the next level of detail for actionable insight.
- These visualizations can be readily presented as KPIs or Dashboards. The data is mashed-up from multiple systems honoring their security rules. It is visualization with governance.

Semantic Layer
- eQube’s Semantic modeling layer sits on top of Data virtualization layer. eQube-BI comes with pre-packaged domain ontologies (made up of commonly used concepts) and maps of these concepts to COTS applications’ object models.
- With this capability, regular users are able to interact with eQube-BI using commonly used phrases or words than having to learn or understand IT jargon.
Virtualization Layer

- With eQube’s revolutionary ‘data virtualization’ layer, data from multiple sources can be fetched and aggregated honoring the security rules of the underlying applications.

- At the data virtualization layer, data from any system is presented to eQube-BI in a neutral format and that capability provides significant flexibility in data mash-ups.

Enterprise-class scalable high-availability deployment

- eQube-BI is a j2EE application that is certified on all popular j2EE servers. It is designed to scale both horizontally and vertically. It can be deployed in high-availability/fail-over/clustered mode. Key computational processes can be scaled out as eQube-BI leverages parallel streaming algorithms for rapid processing and scalability. In addition, the memory footprint of the ‘cube’ is dramatically small due to intelligent algorithms that efficiently utilize heap and columnar off-heap memory.

- End result is a robust enterprise-class scalable architecture that can serve thousands of end users with optimal speed while minimizing the infrastructure costs of eQube-BI deployment.

Capability to ‘Productionize’ analysis

- eQube-BI is built for individual users as well as for large multi-national organizations that require the on-demand analytics at the finger-tip of their end-users. Its intuitive redesigned modern UI allows for superior ad-hoc analysis capabilities.

- In addition, some of the ‘cubes’ can be defined and scheduled to run or refreshed at pre-defined frequencies to perform analysis and stored as snap-shots by categories (such as by team/domain/project/program/analysis). Based on each user’s access control rules that are based on the underlying applications’ security rules or SSO, they are able to view only the authorized data.

- eQube-BI’s in-built powerful and flexible Scheduler acts as the ‘work horse’ to cater to the demand of running thousands of analysis at prescribed schedules.
Sample Use Cases

- Mashing up data across the Enterprise
  - End-users are able to analyze data stored on multiple sheets as well as in multiple excels with intuitive UI
  - The same analysis can be extended by adding data from relational database(s) such as Oracle db, DB2, MS SQL Server, MySQL, PostgreSQL, etc.
  - Data from Excel(s) and Database(s) can be mashed-up with COTS Enterprise products (Teamcenter, SAP, IFS, Primavera, DOORS, ClearQuest, etc.)
  - Each end-user will only be able to visualize authorized data based on the Security Rules of the underlying applications

- Making sense of Teamcenter data
  Under a worldwide OEM agreement, eQube-BI is also marketed by Siemens PLM Software as Teamcenter Reporting & Analytics.
  - Visualize KPIs, Dashboards in Teamcenter Active Workspace
    - KPIs and Dashboards: for Change/Requirements/Structure analysis
    - Detailed Structure analysis (EBOM changes, EBOM vs. MBOM compare)
  - In-context analysis
    - While on an item/object in Teamcenter, in-context reports, KPIs are available honoring security rules
  - Teamcenter Reporting & Analytics integration with Teamcenter Active Workspace available OOTB

- Analysis of Teamcenter and SAP data
  - Customers that use Teamcenter and SAP, require visibility from both systems. Many business cases require data mashed-up from these systems
    - Costed BOM
    - EBOM-MBOM reconciliation
    - Cost and Inventory analysis

- Analyzing Excels
  - End users are able to analyze data in a single tab or in a single excel file or in marked areas of excel
  - This capability can be extended to multiple tabs of the same excel file or further extended to include data from multiple excel files/tabs
  - Data across sheets or excels can be mashed-up together with intuitive UI