Tackle your Mainframe TCO Challenge with Cognizant BIGFrame

Mainframe Computing Today

The idea of mainframe computing as the way to store and process your organization's data has undergone a lot of evolution. Cost and speed requirements are driving development of alternative and complementary solutions. The results include Enterprise Data Warehouses (EDWs) and Hadoop platforms, of which the latter is more preferred due to superior cost benefits offered while retaining mainframe-like features. A lot of organizations today are mulling over migration to Enterprise Hadoop platforms, to achieve lower TCO without compromising on the business sensitivity.

The Challenges of Hadoop Migration

Migration to Hadoop, however, is not straightforward. Hadoop migration happens with mainframe optimization and such initiatives can be complex and include many phases. Some of the key challenges are:

- Tackling complexity in data sourcing and variety in data formats/definitions.

- Ensuring similar performance in the target platform at a competitive cost.

- Maintaining mainframe-like security, reliability, scalability and high availability.

- Keeping TCO low while managing multiple skillsets and licensing costs.

A New Migration Paradigm

Cognizant has partnered with Syncsort and Cloudera to develop BIGFrame, a solution and a foundational business case for the broader enterprise Hadoop strategy. It simplifies migration of data and analytics applications to Hadoop, and also accelerates optimization projects to achieve mainframe-like performance at a much lower TCO than EDW. Optimization happens during the mainframe's lifetime as well via offload of high-volume data and intensive processes into Hadoop.

	Mainframe	EDW	BIGFrame
Operation cost	🔴	🟠	🟢
Skills Availability	🟠	🟢	🟢
Scalability & Integration with new sources	🟠	🟠	🟢
Application enhancement cost	🟠	🟢	🟢
Time-to-market of new services	🔴	🟢	🟢
Performance	🟢	🟠	🟢

Figure 1: Mainframe vs EDW vs BIGFrame

Cognizant

Mainframe
Transformation
Capabilities

Cognizant
Enterprise Information
Management

Mainframe
Migration
Capabilities

BIGFrame

syncsort
DMX-h

cloudera
Enterprise
Data Hub

Mainframe-like
Performance
Capabilities
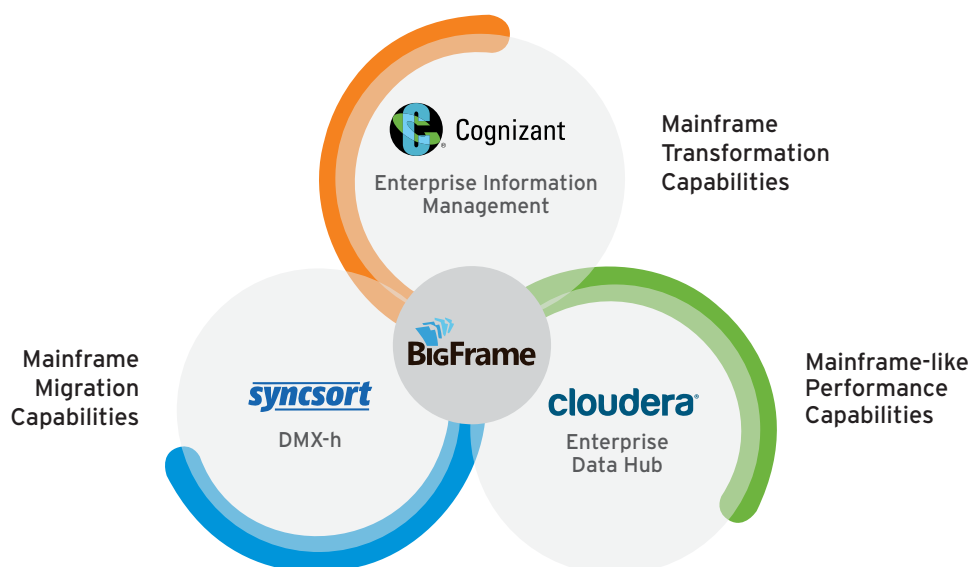
BIGFrame - a Mainframe Offloading Solution created by Cognizant, Syncsort and Cloudera

BIGFrame Technical Highlights

- Native source connections for both faster migration and performance.
- High performance migration software for all open systems.
- Security using data extraction protocol and in-built data masking features.
- Pipelined architecture that supports parallel loading into target.
- Elastic scalability for expanding data volumes and additional processing power.

- Reduced migration costs due to automated data and application offloading.
- Extensive support for Copybooks with runtime encoding conversion.
- Conversion of JCL and Cobol batch processing into MapReduce framework.
- Web-based self-service BI with Advanced Analytics.
- Cognizant Accelerators for rapid deployment and unparalleled services.

About Cognizant Enterprise Analytics

Cognizant Enterprise Analytics drive tangible business benefits to every customer and shifts analytics from being cost centers to revenue centers. We future-proof visionary businesses by combining in-depth domain expertise with analytics and information management best practices that help clients optimize decisions and results. Enterprise Analytics is committed to helping clients run better through a range of integrated analytics and enterprise performance management services and solutions. We help clients run differently by grounding our services and solutions in foundational components including mobility, cloud, big data and smart data. Our end-to-end blend of business and technology solutions already reflects the future of analytics, and enables us to create transformational value through innovation and agility.

For more information please send an e-mail to our global team at BIGFrame@cognizant.com or visit our Web site at http://www.cognizant.com/enterpriseanalytics

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Cognizant

World Headquarters
500 Frank W. Burr Blvd.
Teaneck, NJ 07666 USA
Phone: +1 201 801 0233
Fax: +1 201 801 0243
Toll Free: +1 888 937
Email: inquiry@cognizant.com

European Headquarters
1 Kingdom Street
Paddington Central
London, W26BD UK
Phone: +44 (0) 207 297 7600
Fax: +44 (0) 207 121 0102
Email: infouk@cognizant.com

India Operations Headquarters
#5/535, Old Mahabalipuram Road
Okkiyam Pettai, Thoraipakkam
Chennai, 600 096 India
Phone: +91 (0) 44 4209 6000
Fax: +91 (0) 44 4209 6060
Email: inquiryindia@cognizant.com