



BROCHURE

BIG DATA ANALYTICS

Swash Convergence Technologies Limited

BIG DATA ANALYTICS

Innovative approach to data management

Overview



In nutshell:-

- Quickly get a view and understand big data sources.
- Ingest and analyze data in its native format.
- Optimize your warehouse by offloading deep analytics tasks to purpose-built appliances.
- Offload workloads and data sets to Hadoop for cost-efficient processing.
- Harness streaming data and analyze it.

Not surprisingly, Organizations are facing problem in dealing with cascade of Big Data coming from their traditional systems – Billing systems, ERP systems, CRM systems, also from machine data like RFID tags, sensors, network switches and from humans – website data, social media, etc. With the evolution of computing technology, the enterprises are now able to gather, aggregate, analyze, and store a large volume of data. The emerging Big Data phenomenon is helping organizations in extracting valuable data within minutes that may not have been feasible few years ago. And, Organizations that take advantage of Big Data to improve their business approach and execution are distinguishing themselves from their competitors.

Another reason that big data is a hot topic in the market today is the new technology that enables an organization to take advantage of the natural resource of big data. The purpose of big data technology is to cost effectively manage and analyze all of the available data.

Fact & Figures

- Every minute we send 204 million emails, generate 18 million Facebook likes, send 278 thousand Tweets and up-load 200 thousand photos to Facebook.
- Google alone processes on average over 40 thousand search queries per second, making it over 3.5 billion in a single day.
- 570 new websites spring into existence every minute of every day.
- 1.5 million more data savvy managers needed to take full advantage of big data in US.
- The big data industry is expected to grow from US\$10.2 billion in 2013 to about US\$54.3 billion by 2017.
- Projected demand in 2018 in US is around 500 thousand experts.
- 1.9 million IT jobs will be created in the US by 2015 to carry out big data projects.

What is driving the demand for Big Data Analytics?

- Advanced predictive analytics
- Social media growth
- Explosion of media devices
- Real time sensor data
- Cloud computing
- Cyber security



Swash Big Data Expertise. Your Triumph.

Big Data Analytics

Process, analyze and gain new insights from big data using the power of Swash Big Data Solutions

VOLUME

Large amounts of data

VELOCITY

Needs to be analyzed quickly

VARIETY

Different types of structured and unstructured data.

Swash provides creative and value driven big data solutions that assist companies keep, transform and analyze big amounts of structured and unstructured data. We focus the big data solution that best benefits the specific requirements of the business. Our specialists give the expertise required to figure out where to focus to get the most value from big data.

Swash's Big Data Services:

- Swash utilizes Big Data solution for its Software Application developments with the help of Windows Azure along with services like Active Directory, Business Intelligence, Azure Service Bus, Blub Storage, Notification Service, etc.
- Swash helps clients leverage data inside the company to enhance each decision, be it choosing a new industry to enter, forecasting market trends, developing process improvement or minimizing development expenses.
- We have knowledge over the range of big data capabilities including data warehouse, data management, data visualization, and industry analytics.
- Swash's Big Data team can give a guide toward the acknowledgement of a big data objective, including proof of concept, definition of business requirements, solution design, implementation, and management.

Swash powers a strong offshore Big Data team:

- Developers, testers, data engineers, production support team, release team and platform team
- Economical resources to organize and support big data activities
- Leading data engineering competencies to exercise big data analysis
- Big data infrastructure promotion and development.
- Partners with the main solution platforms in Big Data

We leverage data science and technology expertise to help enterprises identify business use cases, evolve the information management & Big Data strategy. We define architecture, evaluate & recommend the required enabling technologies in support of the business goals. We then translate the strategy into manageable phased plans providing incremental business capabilities and results.

Service Platforms



hadoop : We leverage data science and technology expertise to help enterprises identify business use cases, evolve the information management & big data strategy. We define the architecture, evaluate & recommend the required enabling technologies in support of the business goals. We then translate the strategy into manageable phased plans providing incremental business capabilities and results.



mongoDB : Mongo DB is the leading NoSQL database, empowering businesses to be more agile and scalable. We have helped Fortune 500 companies & startup customers use Mongo DB to accelerate time to market.



ORACLE
NOSQL
DATABASE : The Oracle NoSQL Database is a distributed key-value database. We have helped our customers to provide highly reliable, scalable and available data storage across a configurable set of systems that function as storage nodes.



PIG: We use Apache Pig for analyzing large data sets that consists of a high-level language for expressing data analysis programs. The salient property of Pig programs is that their structure is amenable to substantial parallelization, which in turns enables them to handle very large data sets.



HIVE : We use Hive as a data warehouse system for Hadoop that facilitates easy data summarization, ad-hoc queries, and the analysis of large datasets stored in HDFS. You can access Hive data using a SQL-like language called HiveQL & map/reduce programmers to plug in their custom mappers and reducers.



HDFS : The Hadoop Distributed File System (HDFS) is a distributed file system designed to run on commodity hardware. We use HDFS in applications which needs to process large data sets & requires high throughput access to application data.



HBASE : We use Apache HBase when you need random; real-time read/write access to your Big Data. Apache HBase is an open source, distributed, versioned, column-oriented store. Apache HBase provides Big table like capabilities on HDFS.



Map R : We work with Map R which makes Hadoop easy to use and dependable. They have easy graphical provisioning and planning tools. Built-in monitoring with heat-maps, alerts and alarms makes it very easy to operate this Big Data Infrastructure.

Data Integration (ODBC/SQOOP/REST) : Data integration is the combination of technical and business processes used to combine data from disparate sources into meaningful and valuable information. A complete data integration solution encompasses discovery, cleansing, monitoring, transforming and delivery of data from a variety of sources.

Business Intelligence: Business intelligence (BI) is a set of theories, methodologies, processes, architectures, and technologies that transform raw data into meaningful and useful information for business purposes. BI can handle large amounts of information to help identify and develop new opportunities. Making use of new opportunities and implementing an effective strategy can provide a competitive market advantage and long-term stability.

Active Directory: Identity management describes the management of individual principals, their authentication, authorization, and privileges within or across system and enterprise boundaries. We help our customers deploy identity management system through Active Directory.

Log File aggregation (Flume): Flume is a distributed, reliable, and available service for efficiently collecting, aggregating, and moving large amounts of log data. It has a simple and flexible architecture based on streaming data flows. It is robust and fault tolerant with tunable reliability mechanisms and many failover and recovery mechanisms. It uses a simple extensible data model that allows for online analytic application.

Our big data solution in the Cloud includes:

- | Scale to petabytes on demand | easily integrate on-premises Hadoop clusters
- | Process unstructured and semi-structured data | Pay only for what you use
- | Develop in Java, .Net, and more | Spin up a Hadoop cluster in minutes
- | No hardware to buy or maintain | Visualize your Hadoop data in excel

Swash Big Data & Analytics: Value Proposition

- Extensive set of capabilities across big data and analytics
- Pre-integrated components accelerate value
- Pre-built industry and horizontal solutions
- Integration and optimization with storage and infrastructure
- Delivered in multiple forms: software, appliance, and cloud
- World-class consulting and implementation drives innovation and value.

Commercial ventures including BFSI, health, technology, life sciences, technology, manufacturing and retail are applying big data technology to develop both analysis and operational abilities. Swash provides big data design, implementation and support to help you bridle the power of your enterprise data, giving your organization actionable insight that will upgrade the basic structure.

Innovation at Swash:

Our Developers are innovators, rather than being followers. Since inception, Swash has continuously working on its technical platforms to map itself with the current IT trend. It enables Swash to use latest platforms to differentiate itself from others. Our aim behind using all the latest technical platforms is to give our clients a scalable solution. Business in current market is no longer limited with traditional boundaries. With rapid change in technology, we ensure that we can deliver best possible technical services to our valuable clients.

Swash Advantage

- Large and complex project engineering and handling capabilities
- End-to-end solutions for global clientele
- Extensive domain expertise
- Sizable resource pool with diverse skill sets
- Strong customer and vendor relationships
- Strong service delivery chain

Know Us

Swash Convergence Technologies Limited is one of the leading Software Development Company, with global existence; began its successful foray into the IT world in 2001, flourishingly spreading its fragrance both in the National as well as the International market especially in the business of providing IT solutions & Services to its clients. Swash Convergence Technologies has been recognized as one of the Microsoft Windows Azure featured partners worldwide. Our team lay on the three milestones i.e.: Simplicity, Excellence and Excitement, which helps us to create value in our strategies. It carved out a niche for itself among IT companies, as a provider of single window software solutions and services. In SCTL, we honor the collective strength of all our employees & believe that diversity is the key to our competitive advantage.

For organizations that want to bag new opportunities and establish a competitive position, Swash Cloud ERP Solutions give end-to-end results that scale up or down as required. We accommodate with consulting network, mobility services so that you can concentrate on what matters – innovating, developing and providing customers an extraordinary experience.

To learn more about SCTL, please visit our website at - www.swashconvergence.com

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