

ZEAS

BIG DATA Enriched. Transformed. Analyzed.

What is your data doing for you? Driving your business decisions? Or is it chained down in silos, buried in storage or hard to manage?

Free your data from silos, stream in your log and sensor information, **experience the power of big data transformation with ZEAS.**

ZEAS provides an **intuitive Graphical User Interface (GUI)** on top of the latest and most powerful enterprise grade Hadoop technologies. You can now ingest, cleanse, transform, store, control, analyze, and dashboard your data from a single, easy to use system. ZEAS also enables enterprise grade controls and works as a **Data Network Operations Center (NOC)** that provides you **360° visibility of your data**. The Data NOC further offers **access controls and alerting mechanisms** to monitor and manage your data and applications.

Big Data, Big Challenges

Data is the fuel that powers today's world and big data technologies are key to leveraging it. As enterprises increasingly adopt big data technologies, sometimes alongside traditional enterprise data warehouses, there is a need for enterprise grade platform solutions to help manage their data. Some important big data challenges enterprises face today include issues in:

- Availability:** Difficulty accessing data scattered across different silos and not readily available to analysts.
- Access controls:** Managing and making sensitive data available across stakeholders.
- Evolving schemas:** Adapting flows as data sources and schemas evolve.
- Scaling:** Inflexible infrastructure and technologies that cannot be used over time.
- Analysis:** Inability to easily and quickly implement better and more sophisticated analytics.
- Alerting and Monitoring:** Tracking progress of ingestion, transformation and analytics tasks.

Without access to an enterprise analytics system, the data, time and money resources that are available to an enterprise, are not utilized optimally.

Simple Interface Powered by Sophisticated Technologies

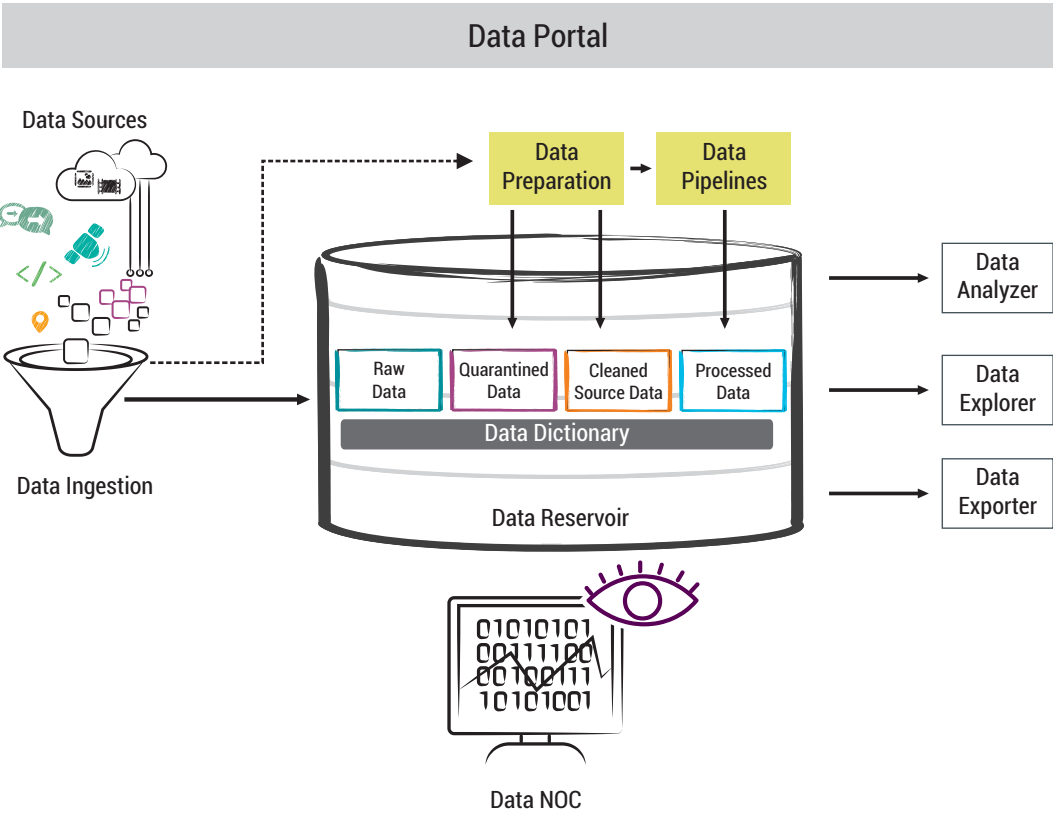
ITC Infotech's answer to these challenges is ZEAS. An enterprise class data system, ZEAS delivers an end-to-end integrated solution framework and tools to create a unified view of data, which can then be analyzed and managed effectively. Our integrated system provides enterprises a global view of data, combined with management tools built on top of the latest big data technologies. It addresses a broad set of key out-of-the-box big data transformation needs - from data ingestion to cleansing, transformation, storage, management analysis and visualization.

Our Key Differentiators

- ☑ The platform and tools are set to easily create end to end big data transformations.
- ☑ It is built on top of the latest, 100 percent open source Hadoop technologies.
- ☑ It is easy to run data analysis without having to write a lot of code.
- ☑ Our big data experts and customization team will help you setup, fine tune, and run the data transformations system across your enterprise, based on your specific needs.
- ☑ We will also help you continuously develop libraries of vertical domain-specific use cases.

While the GUI brings in ease of use, there is also provision in the tool for an analyst or software developer to write native Hive queries, Pig scripts, SQL statements, and to bring in external libraries for complex processing.

ZEAS – A Functional Model



ZEAS has a user-friendly GUI layered over complex technology architecture and provides the following functions:

- Portal:** A Web based portal that provides the container interface for administration and management.
- Data Ingestion:** Defines data source locations, assigns schema, and ingests or moves data from data source location into the data reservoir. This also allows the user to set the frequency of data ingestion from various data sources.
- Reservoir:** A HDFS data and metadata store for all input and processed data.
- Dictionary:** The metadata repository for all data in the data reservoir.
- Preparation:** Provides for any pre-processing stages required for data processing by the data pipeline, with support for data cleansing and quarantining where applicable.
- Pipeline:** Sets up transformations to process data and create data feeds using a data dependency driven workflow system.
- Explorer:** A tool for data discovery in the data reservoir.
- Exporter:** Interface for external systems to consume data feeds.
- NOC:** Enables capabilities for setting up monitoring, alerting and management mechanisms.
- Analyzer:** Runs library of machine learning with analytic algorithms.

Getting Started

Step 1: Contact ITC Infotech - ZLABS for a consultation session

Initiate a meeting with our data experts to discuss your data management needs. Find out more on how we can help and find solutions for your big data challenges. Our expertise includes:

- Advisory to identify the right use case
- Identifying data driven challenges
- System architecture
- Infrastructure setup and cluster management (including Hadoop admin for on-premises clusters)
- Data architecture implementation
- Support and maintenance

Step 2: Engage with ITC Infotech for a Proof-of-Concept

Based on our initial discussions, we can provide a quick-turn, reduced cost proof-of-concept project for you. Test us out and see if we deliver what you need.

Step 3: Make us your Big Data Implementation Partner

If you like what we offer, give us the opportunity to be your big data partner – we have the scale and stability of our \$45bn ITC Ltd parent, along with the agility and drive that comes with being a 7000 person mid-size software engineering services firm!

Other ZLABS Hadoop-based solutions

Real-time Analytics Dashboard Application for Retail (RADAR): A software solution for B2C enterprises built using ITC Infotech's handy tools (NLP and Sentiment Analysis engine) and utilizing Hadoop technologies such as HDFS, Yarn, STORM, SOLR, Oozie and Zookeeper. RADAR is designed to maximize sales for enterprises through data based continuous re-pricing.

About Us

ITC Infotech provides comprehensive big data software engineering services to enterprises including architecture advisory, data plumbing, data pipeline implementation, big data infrastructure administration, machine learning, and data analytics. Using our ZEAS, organizations can accelerate, better manage and scale data ingestion, preparation, quality analysis, exploration, and reporting processes.

We offer domain-specific expertise and solutions in the retail, consumer goods, travel, hospitality, financial services, healthcare, supply chain, and manufacturing industries that help our customers derive business value using Hadoop technologies, NoSQL databases, enterprise mobility frameworks, IoT frameworks, visualization tools, and powerful natural language processing engines. We are part of the \$45bn ITC Ltd, with the company's big data division - ZLabs headquartered in Silicon Valley.

Contact Us:

Find out more about how we can help you,

Email: contact.us@itcinfotech.com

Web: [ITC Infotech – Big Data Services & Solutions](#)

