

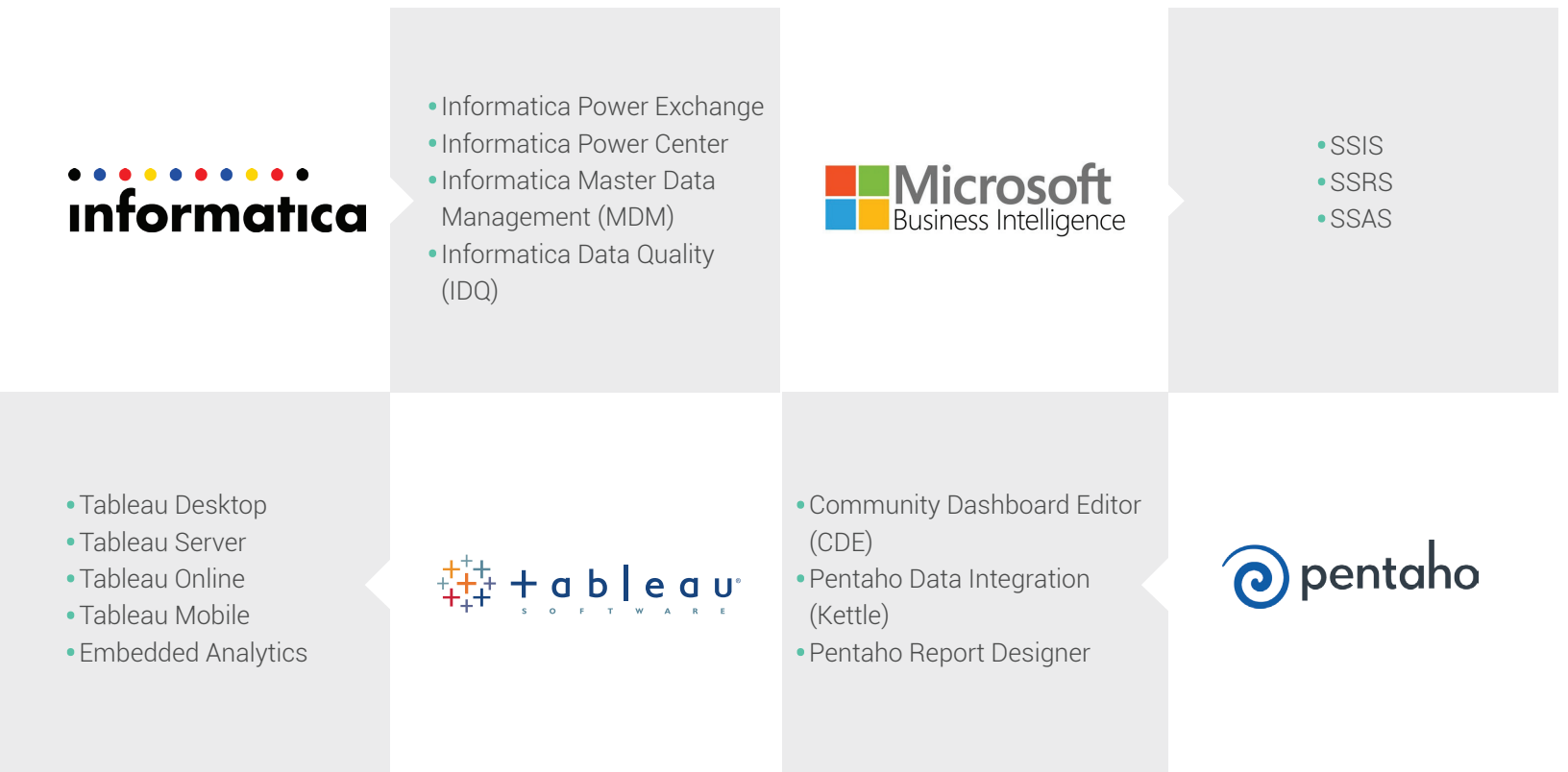


Diaspark's business intelligence services help organizations shift towards a new era of deriving insights from data with high volume, velocity and veracity. We provide a set of complex BI capabilities and help you extract relevant information for predictions, analysis and reporting in a single dashboard without having to run through multiple applications. Our solutions are designed to help you with information management and give you a self-service analytical tool for taking timely and actionable decisions for optimized business processes.

Diaspark's Spectrum of BI Services



Technology Expertise



Key Highlights of Diaspark BI Implementations

- Transformations

Source System

Oracle | DB2 | SQL | MySQL | Salesforce | Cache | Memory | Web services

Target systems

SQL server | Oracle | IBM Netezza | MySQL

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- Developed ETL mappings and workflows using SSIS, Power exchange, Power center and Kettle to extract and transform data
 - Automation of Kettle jobs and scheduling them using Linux Bash script and crontab
 - Automated error reporting / success notifications based on the status of job
 - Processed high data volume in SSAS cubes and fast data retrieval using MDX
 - Generated strategic reports i.e. Tabular / Cross Tab / Graphical / Drill-down / Drill-through reports using SSRS and Pentaho report designer
 - Created interactive analytics dashboards based on key performance indicators - KPI's Data visualization by Pie chart, Bar chart, Bubble chart, Line chart featuring action events connecting details view
 - Self-service BI solution to generate ad hoc reports by power users

Diaspark BI Services Differentiators



Proven record of BI Expertise –

Successful delivery records for projects in onsite-offshore model with waterfall & agile development methodologies across various industry sectors



Self-service analytics & BI services –

Leveraging latest BI tools to build customizable dashboards and tools that allows manipulating data to suit a particular business need



Improving business processes –

Real time analytics with collaborative dashboards and reporting tools to take timely decisions



Global Delivery Model –

High quality, innovative and economic offshore services to deliver efficient BI model

Solutions Deployed

A leading US-based retail company engaged Diaspark to migrate data using enterprise Informatica ETL tools

TOOLS & TECHNOLOGY

- Informatica Power Exchange
- Informatica Power Center
- Informatica Master Data Management (MDM)
- Informatica Data Quality (IDQ)
- Oracle, DB2, IBM Netezza
- Winscp, FileZilla, DB Visualizer

SOLUTION

- Replaced existing orchestration process (nzDIF scripts) with Informatica ETL transformation
- Implemented ETL process to extract data from various sources (Oracle/DB2/flat files), transform data by applying business logic and loading it in to EDW (enterprise data warehouse i.e. IBM Netezza)
- Extracted data in real time or using jobs as needed with the help from Power Exchange
- Prepared technical and mapping design document, development and unit testing
- Data cleansing through IDQ and MDM for Master data management

BUSINESS BENEFITS

- Replaced existing nzDIF based orchestration process,(which requires manual intervention) with automated Informatica ETL transformation
- Configurable and customized ETL mapping as well as scheduling ETL workflows using various Informatica tools
- Handling of multiple data source formats – Database, Flat Files, Cloud, Web service (XML, JSON format)
- Easy maintenance with centralized access

A small business finance company partnered with Diaspark to build analytics dashboard for smarter decision making

TOOLS & TECHNOLOGY

- Pentaho Data Integration (Kettle)
- MySQL
- Linux
- Pentaho Report Designer
- Community Dashboard Editor
- CCC, CDA, CDF

SOLUTION

- Data warehouse design and ETL jobs creation to pull data from various data sources like Salesforce, operational databases in MySQL, Excel spread sheets to MySQL data warehouse
- Automated Kettle jobs and schedule them at a central place using Linux Bash script and crontab so that it is easy to manage them
- Generated email alerts to monitor and ensure successful execution of ETL jobs
- Converted slow performing existing legacy reports into faster smarter new Pentaho reports
- Generated strategic reports i.e. Tabular / Cross Tab / Graphical / Drill-down / Drill-through reports for business use
- Created Interactive analytics dashboards for each department based on key performance indicators
- Dashboards showcased high level KPI's and featured navigation to summary / detail views along with drill-downs leading to deal level view in Enterprise application

BUSINESS BENEFITS

- Enabling management to take powerful, faster, and smarter decisions
- Centralization of information to be viewed on a single dashboard eliminating multiple log-ins and improving processes
- Cost effective solution development using open source software (Linux, Pentaho, MySQL)

Diaspark integrated 360 degree analytics into its flagship product - "Diaspark Energy – a Solar PV platform"

TOOLS & TECHNOLOGY

- Microsoft, C#, .NET
- ASP.NET, AJAX, Entity Framework
- MS SQL Server 2008 R2/2012
- SSIS, SSAS, SSRS
- Visio, Visual SourceSafe

SOLUTION

- Integrated Application Platform to store and visualize Plant/Asset data
- Optimizing production by ensuring minimum outages and downtime. Managing asset warranty and maintenance for increasing asset life and reducing risk. Generate & analyze various reports to increase staff productivity. Such reports include Repair Order Report, Contract Report, Site Visit Report, Site Commissioning Report, Maintenance Report, etc.
- Data warehouse design and ETL jobs automation to load data into warehouse database
- Handling of huge data volume between source (FTP/Excel) to target (SQL Server). Pulling data every 15 minutes multiple meter readings for thousands of commercial & residential energy projects
- Processing high data volume in SSAS cubes and fast data retrieval using MDX
- Generated Interactive analytics dashboards, strategic reports i.e. Tabular / Cross Tab / Graphical / Drill-down / Drill-through reports for business use
- Self-service BI solution to generate ad hoc reports by power users. We built this solution by configuring Report model, SSAS cube and SSRS report builder
- Custom Report manager under ERP solution can be used to configure deployed server reports by IT developers and business power users
- Linked server configuring to pull cube data by MDX in SQL stored procedures and bind with rich UI third party controls

BUSINESS BENEFITS

- Real-time monitoring, control & analysis of clean energy projects & assets
- Enabling management to take powerful, faster and smarter decisions
- Centralization of information to be viewed on a single dashboard eliminating multiple log-ins and improving processes



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