

Government 360

Need to consolidate contextual XML data sets from different government agencies such as Person information registry, Vehicle information registry, Government facilities, land registry etc., and provide capabilities to share information between different government agencies.



Project Name	Data Consolidation Platform
Client Name	Exakt
Duration & Team	Consulting and Training 4 people 3 months Implementation under planning <ul style="list-style-type: none">• 1 Lead Architect• 1 Lead Data Analyst• 1 Data Scientist• 1 Lead ETL Developers
Data Volume	One million rows for single agency per quarter, actual quantum is under review
Infrastructure	Hosted on Private Cloud with Linux Operating systems. <ul style="list-style-type: none">• Marklogic (NoSQL) document based data storage• Analytics database for data warehouse• Pentaho Enterprise Edition 6.0 for data ingestion and visualization service 50 users and 15 power users• Integrated single sign on with Glue server

Business Problem

- Data in Silos
- Agencies maintain own formats no standards
- Information sharing is limited due to existing infrastructure (software, hardware, human resources)
- Low transparency affects decision making

Solution

- Pentaho Data Integration to ingest contextual XML data from various agencies
- Marklogic for document based data storage
- Analytical capabilities to agency users for data analysis, visualization and reporting
- Data shared between agencies via web services as per their needs and access control
- Self service capabilities and users trained to utilize the benefits with limited IT dependency