



SCADA Intelligence

Adroit SCADA Intelligence is a data warehousing system that collects and processes data from disparate data sources and makes the resulting information available on a common platform to enable decision-making.

Introduction

Adroit SCADA Intelligence is an out-of-the-box data warehousing and business intelligence solution that collects, processes, and organises historical data from disparate data sources into a structured industry-standard data model (ISA-95 Expanded Equipment Hierarchy). The resulting information is then made available on a common platform to enable informed decision-making.

Adroit SCADA Intelligence is developed on the Microsoft SQL 2008 R2 Enterprise Business Intelligence (BI) platform. Microsoft Business Intelligence solutions scale to the growing needs of your organisation and provide the agility to respond quickly to changes.

The Adroit SCADA Intelligence Manager is used to configure data connectors, define how and when data is to be processed, database archiving, system backups, monitor system performance, processing durations, and system error logs.

The Adroit SCADA Intelligence Analyser allows users to do ad hoc analysis on both the Data Warehouse and the Operational Data Store using drag and drop functionality.

Industries using Adroit SCADA Intelligence

Water | Mining | Metals & Minerals | Telecommunication | Power | Facilities Management | Food & Beverage | Oil & Gas | Cement

Application of Adroit SCADA Intelligence

Production Reporting | Equipment Performance | Overall Equipment Efficiency | Network Performance | Operator Performance | Environmental Management | Carbon Footprint Reporting | Water Balance Reporting | Distribution Management | Quality Management
Telemetry Network Management

Key Features and Benefits



- Adroit SCADA Intelligence software is quick and easy to install. The items and context model can be easily configured through the Adroit SCADA Intelligence Manager or the Microsoft Excel import/export functionality. This reduces the implementation time, effort, and therefore cost of your Adroit SCADA Intelligence solution.
- Adroit SCADA Intelligence comes standard with report templates, sample reports, and report parts that can be used to create custom reports. This allows for rapid development and customisation of your Adroit SCADA Intelligence solution.
- Standard OLAP functionality in Excel enables users to connect to the Adroit SCADA Intelligence data cube directly. This familiar and intuitive environment allows users to easily do ad hoc analysis and reporting off their data with little or no training.
- Adroit SCADA Intelligence is built on the Microsoft BI platform that allows for seamless integration into SharePoint technologies.
- Without any other software, it is possible to use the standard Adroit SCADA Intelligence Analyser to extract information on trends and other standard views. User-defined reports can be created, stored, and shared with other interested parties.
- Data can be collected from Microsoft SQL databases, manual data input, and 3rd party applications such as SCADA Historians (Citect Historian and Wonderware's InSQL).



Architecture

Data Acquisition

Adroit SCADA Intelligence can retrieve time based historical data from multiple data sources.

Data Transformation

The Extract Transform Load (ETL) process adds predefined context and other attributes to the summarised data and stores this in the data warehouse. Thus the captured data is transformed into information.

Information Repositories

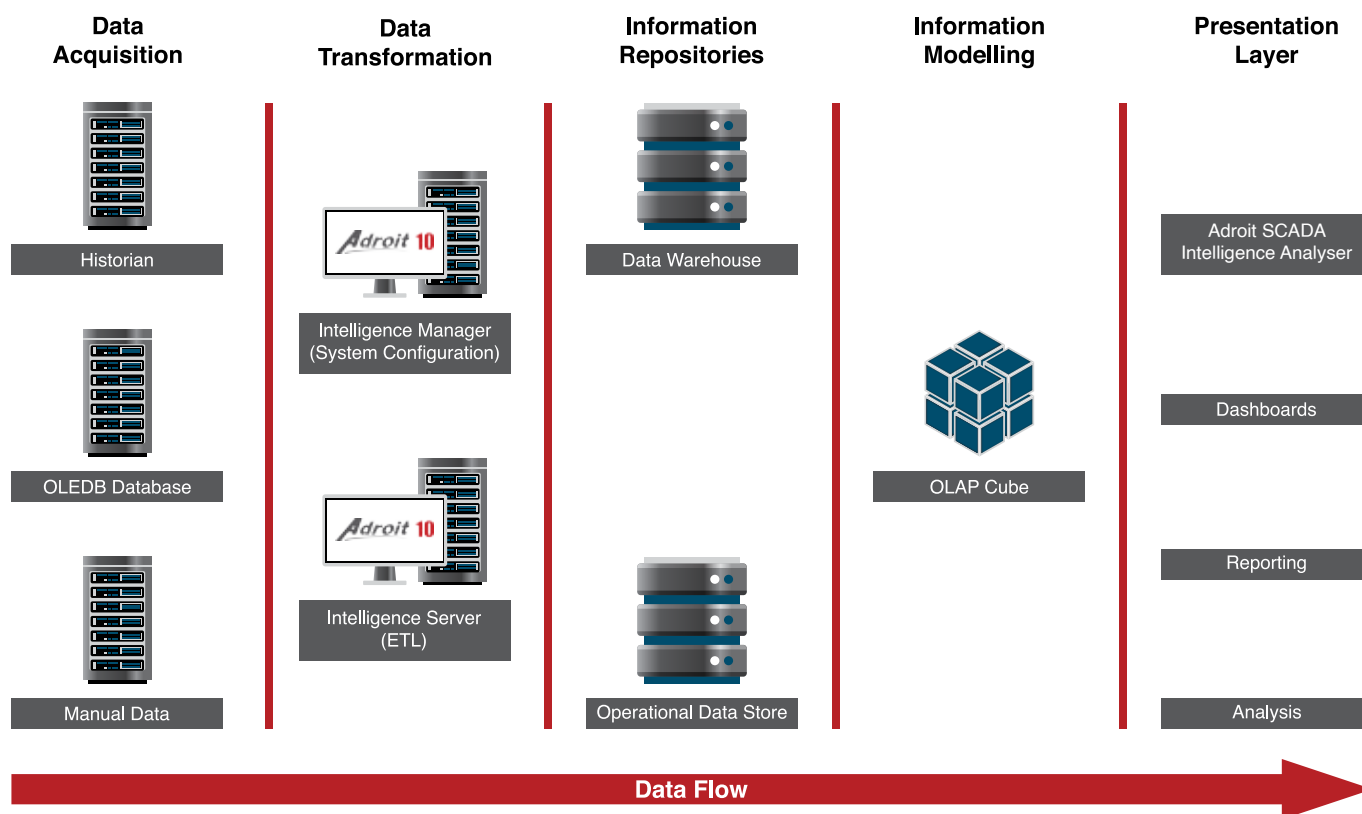
The summarised information is stored in a multidimensional data warehouse. This is an optimised data store with a specific focus on data management and retrieval. The contextualised raw data, for higher resolution analysis, is stored in an Operational Data Store (ODS).

Information Modelling

The information is modeled into an On-Line Analytical Processing (OLAP) cube which enables information to be queried and analysed efficiently using any OLAP-compliant Business Intelligence (BI) or reporting applications.

Presentation Layer

The presentation layer is how information or key performance indicators (KPIs) are presented or visualised by end users. These can take the form of dashboards, scorecards, reports, or interactively through software such as Excel and/or the Adroit SCADA Intelligence Analyser.



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