Elipse | **Plant Manager**

REAL-TIME
INFORMATION
PLATFORM

elipse **software**

ELIPSE PLANT MANAGER IS A POWERFUL PLATFORM FOR COLLECTING, STORING, ANALYZING, AND QUERYING REAL-TIME DATA.

EPM allows collecting, storing, and contextualizing information from several real-time data sources and historical series. Its data handling, compression, and retrieval technologies offer high recording and querying performance, and its visualization and analysis tools provide a collaborative environment for handling information more quickly, reliably and scalably. This allows for the development of industrial intelligence and analysis applications, improving real-time decision making.
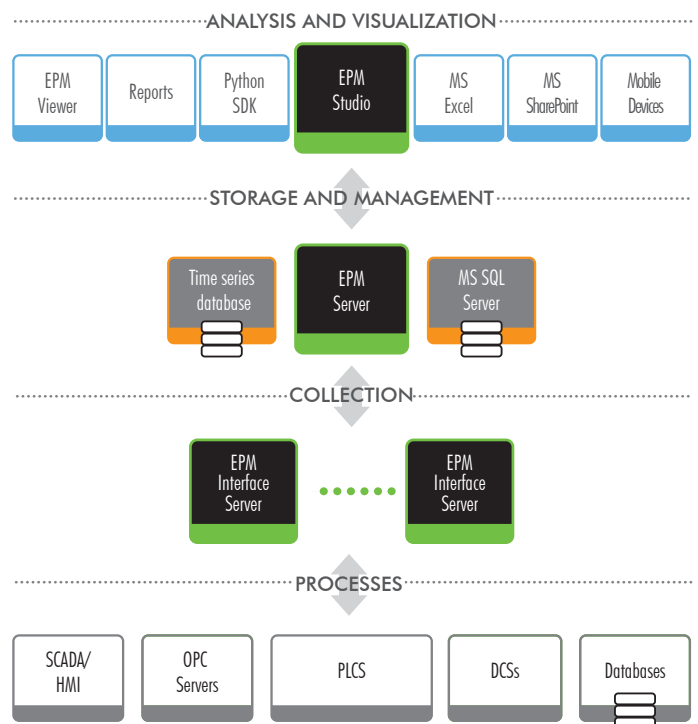
CURRENT SCENARIO

- Data from different SCADA and management systems
- Barriers to analyzing and extracting information
- Barriers to storing and handling Big Data

OPERATIONAL INTELLIGENCE

- Quick, simple and reliable platform to connect to any type of data sources
- High storage and query performance
- Powerful tools for handling, retrieving and analyzing Big Data
- Key performance indicators (KPIs)

FEATURES

ANALYSIS AND VISUALIZATION

| EPM Viewer | Reports | Python SDK | EPM Studio | MS Excel | MS SharePoint | Mobile Devices |

STORAGE AND MANAGEMENT

| Time series database | EPM Server | MS SQL Server |

COLLECTION

| EPM Interface Server | EPM Interface Server |

PROCESSES

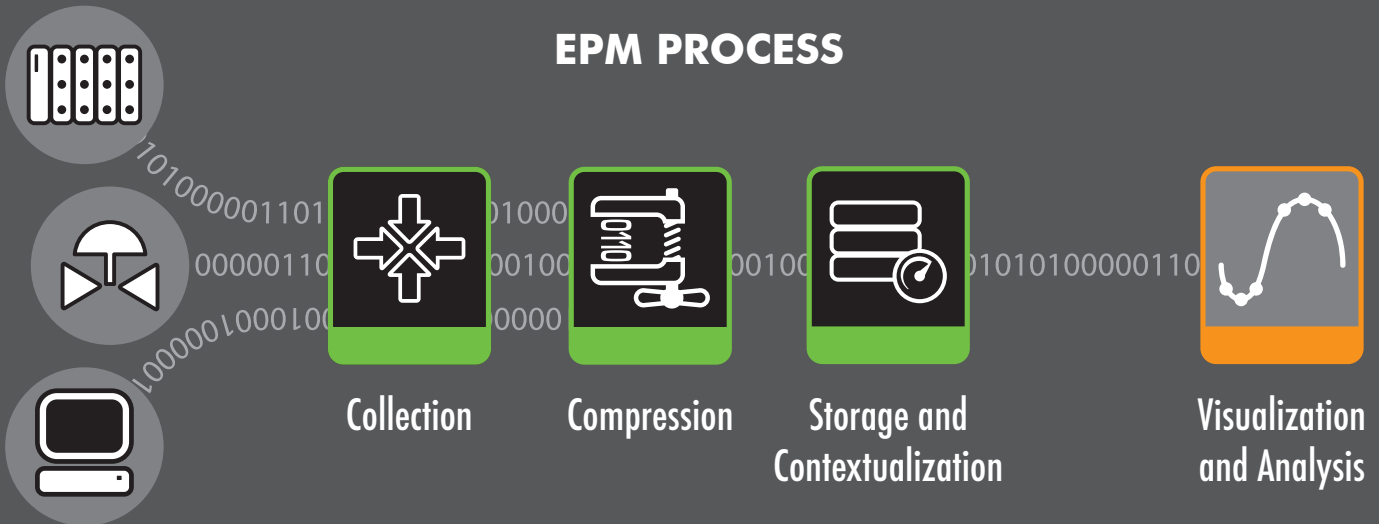| SCADA/ HMI | OPC Servers | PLCS | DCSs | Databases |

COLLECTION

EPM Interface Server is the module responsible for retrieving data at its origin, applying an optional compression algorithm before final storage at EPM Server, which secures data integrity even after a connection shortage (Store and Forward).

The available interfaces are OPC DA, Elipse Power, and Elipse E3, with over 400 I/O drivers available for most devices in the market. There are also database interfaces such as MS SQL Server®, Oracle DB® and others via OLEDB connection.

STORAGE AND MANAGEMENT

The platform's main core is EPM Server, responsible for data management and storage as time series, resulting in less disk space cost, high processing capacity and great performance when responding to query requests and writing data.

EPM PROCESS

Collection **Compression** **Storage and Contextualization** **Visualization and Analysis**

You can also create customized mechanisms for accessing and manipulating data via EPM User API (in .Net) or EPM Python SDK (in expressions or applications developed in Python). These mechanisms allow generating indicators or trends from calculations triggered by value changes or by scheduling.

Elipse Plant Manager is also an OPC UA server, allowing real-time and historical series queries via other OPC clients, including user-object definitions, annotations, and event management.

ANALYSIS AND VISUALIZATION

EPM Analysis tools allow extracting relevant information from process data, suitable for each organizational level, which makes EPM the right platform in your decision-making process. The most common way of analyzing and visualizing data is via electronic spreadsheets, such as Microsoft Excel using EPM Add-in, but other tools could also be used for this purpose, such as:

- EPM Studio;
- Elipse E3, Elipse Power, and EPM Viewer;
- Web Parts for Microsoft Sharepoint corporate portal;
- Microsoft SQL Reporting Services' Reports (SSRS);
- App Mobile (Windows Phone, Android, iOS, Web).

BENEFITS

QUICKER DECISION-MAKING PROCESS

Different ways to follow up key performance indicators (KPIs) and faster analyses allow a more agile decision-making process.

ASSERTIVE ACTIONS AND PROCESS IMPROVEMENT

Operational indicators and predictions of control actions are some of the resources that help managers act more efficiently at the process.

HIGHER PROFITABILITY

Centralizing information means a complete operational visibility of your business, therefore generating macro performance indicators and real-time actions to help fix any deviations.

FLEXIBLE ANALYSES

The integrated analyses environment includes several tools to analyze data, including KPI calculations and actionable information. The tools provided by Python language dramatically reduce the time spent developing reports or obtaining insights by means of its open source libraries like time series, optimization, neural networks, fuzzy, SPC and Complex Events, among others.
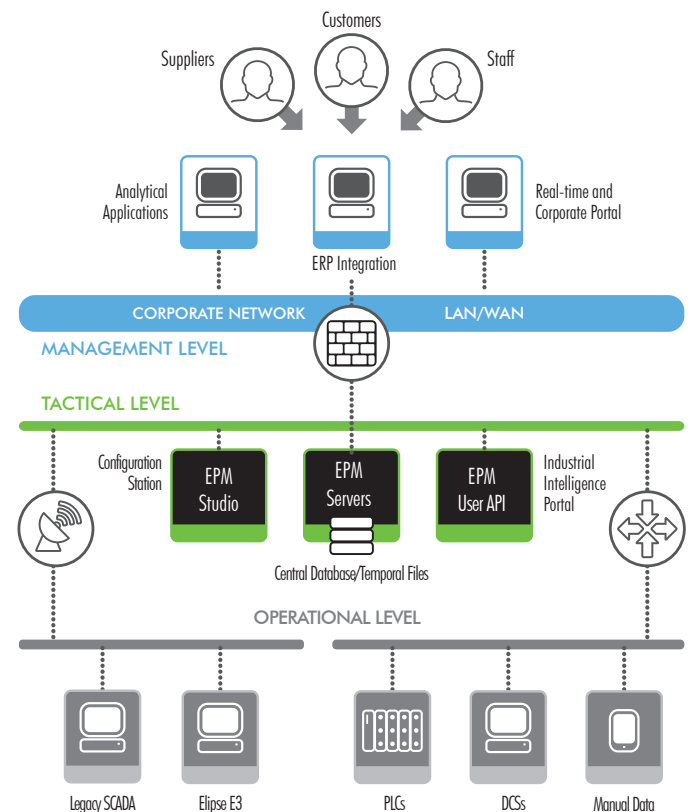
PROCESS AVAILABILITY

Ongoing data analysis helps you plan for stops and maintenance, keeping the process available and operational at its most.
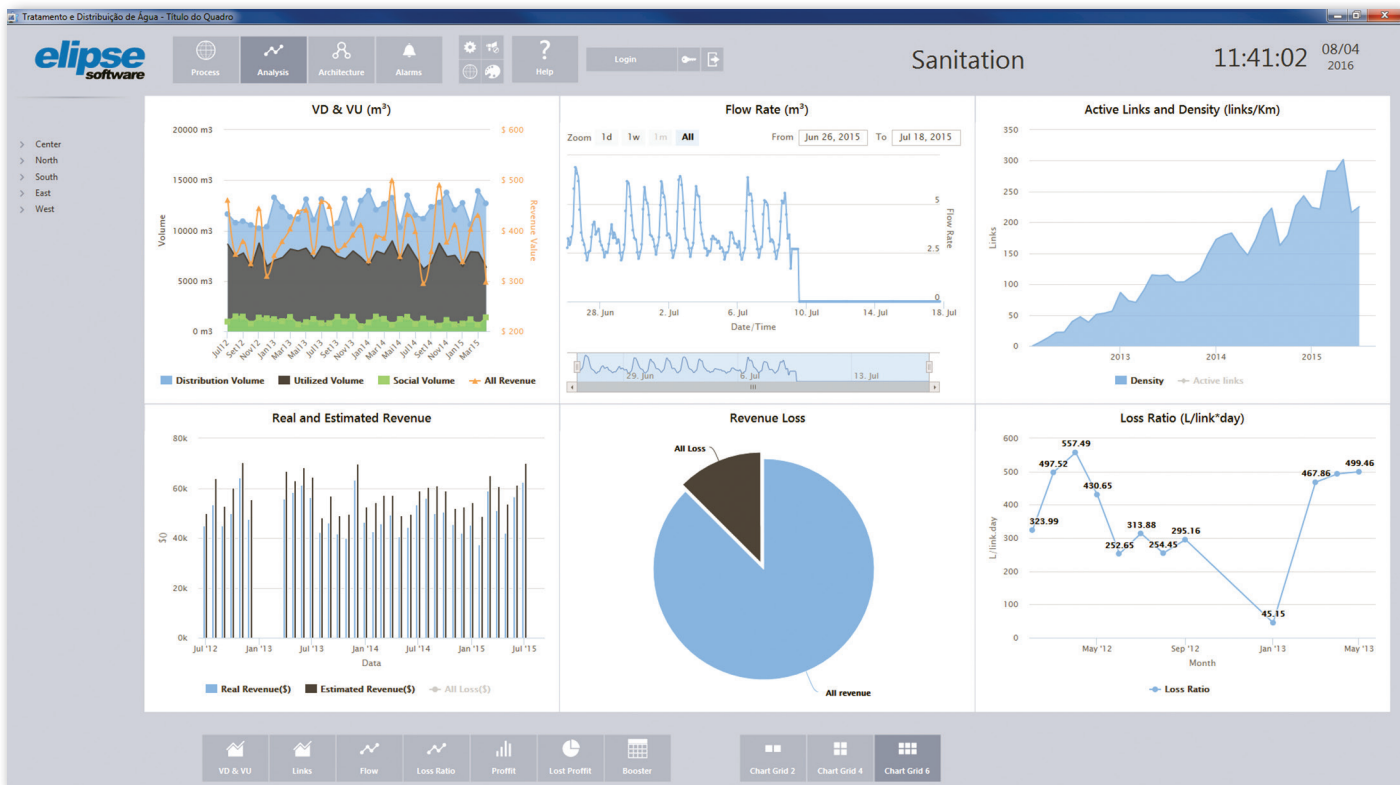
SINGLE VIEW OF THE WHOLE PROCESS

With EPM interfaces and modelling tools, the whole team can have the same source of process data, avoiding islands of local information.

ARCHITECTURE

Elipse Plant Manager handles real-time and historic information from several different types of processes and systems, as well as from utilities and infrastructure (Energy, Water & Wastewater, Data Centers, Smart Buildings) to enable integration between corporate levels.

TOOLS

EPM STUDIO

This integrated tool is responsible for analyzing and visualizing data. It can also be used to run, manage, and set up the whole EPM platform, creating a collaborative environment and reducing maintenance costs.

EPM INTERFACE SERVER

It connects to data sources, pre-processes data, and sends it to EPM Server. Available communication interfaces are: OPC DA, Elipse Interface (E3 Gateway/E3 Server/ Elipse Power) – with native redundancy option –, and databases (OLE DB).

EPM ADDIN

A module that allows using Microsoft Excel® as a query and analysis tool.
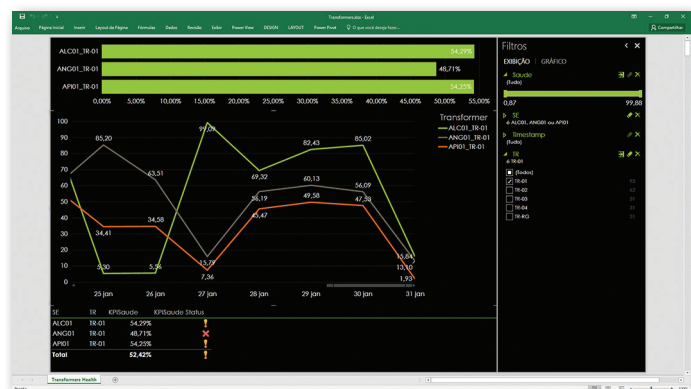
EPM SERVER

The platform's core, responsible for storing and querying data, with native redundancy support via clustering.

EPM WEB PARTS

Components for Microsoft Sharepoint® corporate portal.

EPM VIEWER

Multi-user environment for creating real-time displays of operational and business data, based on Elipse E3 and integrated via OPC UA.

AVAILABLE PACKAGES

EPM SERVER

Supports any EPM interface.

EPM SERVER LITE

Any of the available EPM Server packages can be used to access information via analysis and visualization tools (EPM AddIn for MS Excel, Trend Explorer, EPM Studio, EPM Webparts for MS Sharepoint).

It is also possible to add variable packs (tags) and client licenses to any EPM Server.

Elipse Software is a global software company, and one of the leaders in the Brazilian market. Established in 1986, it has since worked with partners in more than 30 countries and had over 40,000 systems installed worldwide.

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