Dream Report

Data Integration and Reporting Tool
for Automation Processes and Device Management

ARC
Informatique

Introduction

The proliferation of systems has created a wealth of heterogeneous data, making asset management difficult. Dream Report™ is the first native reporting tool for automation processes and device management that leverages data from any source to provide:
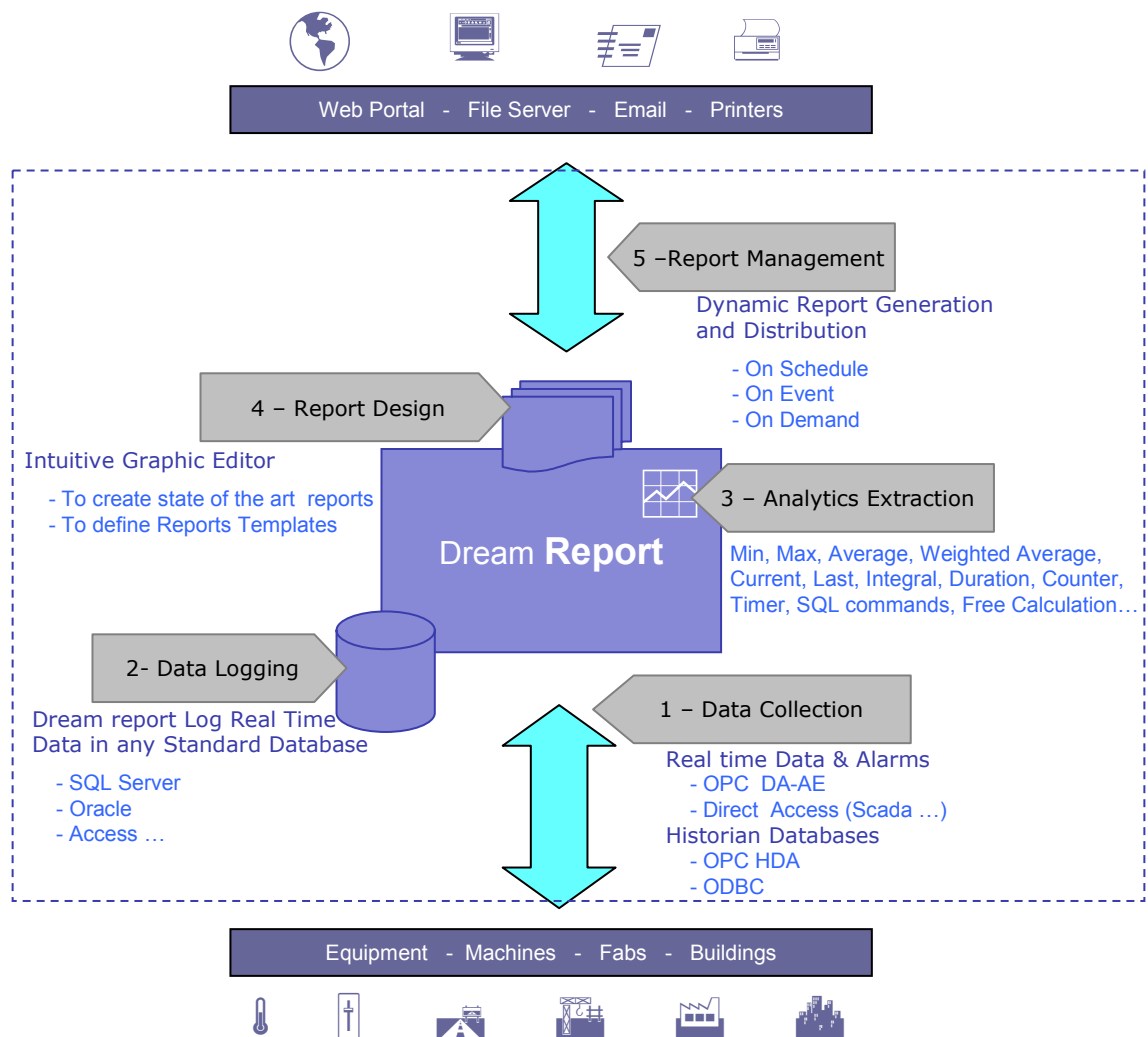
- Clean and accurate data to any application (E.I.I [*] solution)
- State of the art Reports

: Enterprise Information Integration (E.I.I) is a new technology that allows companies to combine data from disparate sources into a single application. Executives can use the information from an EII application to drive operational business decisions based on current information.

Dream Report™ is designed to respond to the growing demand from both the Automation and Enterprise community, looking for an easy and intuitive solution to perform Analysis from the field.

Unique Concept

With Dream Report™, data from plants and devices are no longer inaccessible, but collected, archived and treated by one easy to use and fully integrated reporting tool. The product concept is based on the integration of a Data Acquisition module, with a Data Logger, an intuitive Graphic Editor and a powerfull Report Generator.

Web Portal - File Server - Email - Printers

5 –Report Management

Dynamic Report Generation
and Distribution

- On Schedule
- On Event
- On Demand

4 – Report Design

Intuitive Graphic Editor

- To create state of the art reports
- To define Reports Templates

3 – Analytics Extraction

Min, Max, Average, Weighted Average, Current, Last, Integral, Duration, Counter, Timer, SQL commands, Free Calculation…

Dream **Report**

2- Data Logging

Dream report Log Real Time
Data in any Standard Database

- SQL Server
- Oracle
- Access …

1 – Data Collection

Real time Data & Alarms
- OPC DA-AE
- Direct Access (Scada …)
Historian Databases
- OPC HDA
- ODBC

Equipment - Machines - Fabs - Buildings

Now you can access and interact with information, coming from Databases, Manufacturing systems (SCADA, DCS...), Real Time drivers, OPC Servers and other data repositories.

Major Benefits

- Leverage all data sources deployed
- Enable local and global asset management
- Provide high quality reports
- Proactive solution
- Facilitate business decisions
- Respond to regulatory requirements
- Enable Enterprise Information Integration (EII)
- Very intuitive and easy to use

Feature List

- Collects real time and historical data from multiple data sources
- Collects Data and Alarms
- Logs and aggregates data in customer specified database
- Enables logging periodically, on event or on specific condition for clean and accurate archives

- Integrates User Management
- Provides most popular historical statistics such as Min, Max, Sum, Average, Counts, Duration…
- Enables report template definition and saving
- Support batch reports
- Generates reports in secured PDF format

- Generates reports periodically, on specific conditions, or on demand
- Enables dynamic report settings change
- Saves reports on local or network drives and file servers
- Email automatically reports to a predefined list of recipients
- Print reports to any local or remote printer over the network
- Publish and generate reports from a secured Web portal
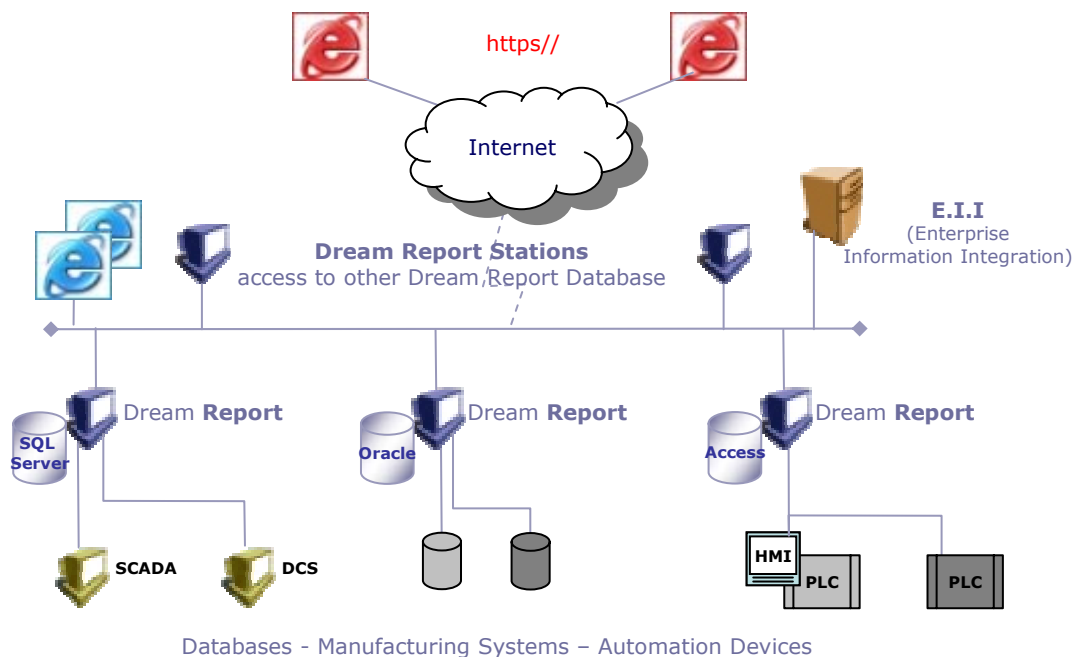
Architecture

Open Database Support

Dream Report™ is a professional solution, enabling report generation, based on data logged in SQL Server, Oracle, Sybase, DB2, Access, MySQL… and any other standard databases. It enables access to one or more existing historian databases via ODBC connection.

Scalable Deployment

Dream Report™ concept is based on multiple servers running either independently for local asset management or sharing information together for a global management strategy. Customers can set up Dream Report™ stations according to their priorities and budgets, and leverage all together stations deployed when needed.

Ability of Dream Report™ to support centralized and distributed architectures enables customers to build various hierarchical data management organizations easily as part of their IT strategy.

Databases - Manufacturing Systems – Automation Devices

Product Overview

Dream Report™ has 2 modules named **Dream Report Studio** and **Dream Report Run Time**.

Dream Report Studio

Dream Report™ Studio is a user friendly software, very intuitive which will suit multinational companies with its on line multilanguage support. The user interface is divided in 2 sections, the Logger and the Designer. To configure the Logger, users must have knowledge and competence for all data sources connected. The Designer Studio is a standard graphical editor that requires minimum software skills.
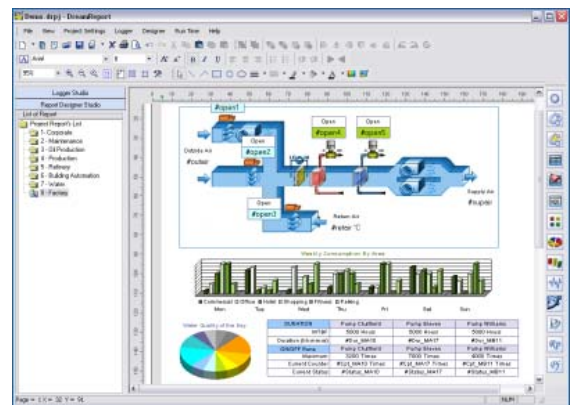
Dream Report™ Studio is used to define and configure:

In the Logger section
- The Real Time data sources
- The Historian data sources
- The logging rules for the database

In the Designer section
- All analysis and statistical information
- Report templates
- Report execution properties
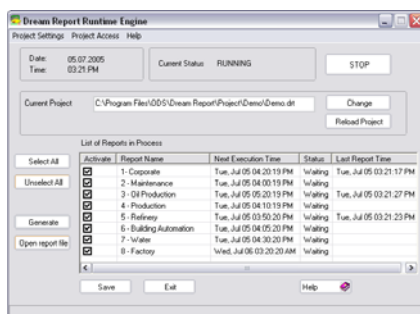- Report distribution properties
- Dream Report Web Portal

Dream Report™ integrates a complete User Management module to manage secure access rights to the Logger, Designer, Run Time and Web Portal.

Dream Report Run Time

Dream Report Run Time is a real time reporting engine that turns Dream Report™ into a unique dynamic and proactive reporting tool. Its Virtual History™ mechanism enables Dream Report™ to generate reports fast. This functionality makes Dream Report™ unique and the most powerfull reporting software, available in the market.

Dream Report Run Time also manages and executes macros, which can be either SQL macro or command line. Each macro has a setting to be executed before report generation or after. It is very helpful and powerful, e.g. enabling users to maintain database management (moving data, cleaning database, data manipulation etc.) or write and execute any custom executable add-on.

Dream Report Run Time manages:
- The security and all access rights
- Data and Alarm acquisition
- All Data Logging into the Database
- Automatic execution of Reports on Schedule, Event and On Demand
- Distribution of PDF Reports to muliple recipients (Email, File Server, Printers)
- Dream Report Web Portal
- The Dynamic Report Generator
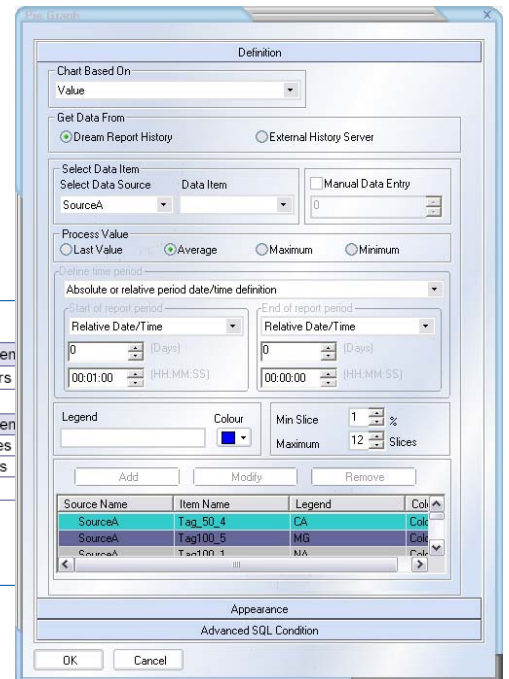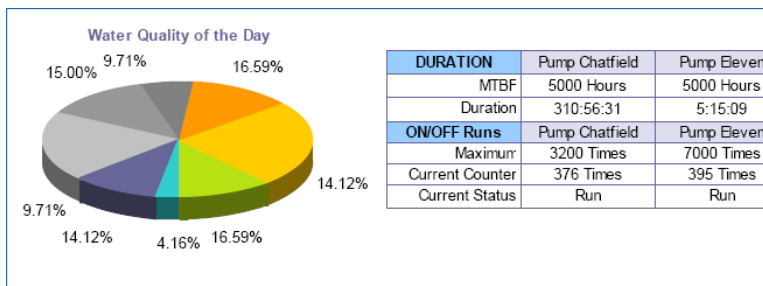
Dynamic Report Generator™

Dynamic Report Generator™ enables users to select any report from the current running project, define period and generate new reports. It is also implemented as an ActiveX component, to enable report generation from any activeX container application.

Dream Report Objects

Intuitive Objects

Dream Report™ integrates a library of predefined statistical and analytical objects. Users can display information in Text Fields, Pies, Bars, Charts and Tables. One of the key features of Dream Report™ is to perform analysis using Raw Data and Alarms, making it a real reporting tool for Automation.

By simple selection, each object allows easy access to information such as Minimum, Maximum, Average, Weighted Average, Sum, Integral, Counts, Duration, Percentage and more….

All calculations can be done either from native history embedded in third party systems or from Dream Report™ history. Results can be saved in the database and used as input data for external applications.

Advanced SQL Functions

Users can define any SQL query on any local or remote database and visualize the result in a report. It can be used to visualize and combine data from plant-floor databases and other systems in the same report.
In addition, Dream Report Objects also integrate Advanced SQL filtering. The powerful data filtering capabilities enable for example easy configuration of batch reports.

Advanced Display Options

For each data, users can select or define units and the decimal precision. Advanced display options enable replacing values by strings to facilitate report understanding. (0 = stop; >90 = High level)

Dream Report WEB Portal

Dream Report Web Portal is a web based solution to visualize, publish and generate reports over the Internet/Intranet.

Being password protected, this portal enables:
- Access to any Dream Report stations deployed
- Publish all authorized historical reports
- Generate new report on demand.
- Define and generate new reports using web enable Dynamic Report Generator™

Dream Report Web portal is ideal for distributing reports within departments, across the enterprise, to customers and suplliers. It can be customized and fully integrated within web based portals.

Dream Report – everything you ever needed for reports and data integration in one software tool!

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