PLANT & IoT ANALYTICS
SIMPLE, FAST & INTELLIGENT
**DEFINITION**

PLUTO LIVE & WEB REPORT (PLUTO) REPRESENTS THE NEW GENERATION OF REPORTING AND MONITORING SOFTWARES FOR ENTERPRISES LOOKING FOR A MODERN AND ROBUST INFORMATION MANAGEMENT SOLUTION TO:

- COLLECT DATA FROM MULTIPLE DATA SOURCES
- TRANSFORM DATA INTO ANALYTICS
- DESIGN PROFESSIONAL APPLICATIONS
- VISUALIZE ANALYTICS FROM WEB APPLICATIONS

SIMPLE AND TOTALLY CONFIGURABLE, PLUTO CAN BE INSTALLED ON PREMISE OR IN THE CLOUD FOR SMART INDUSTRIE, SMART BUILDING & SMART CITY APPLICATIONS SUCH AS:

- ENERGY MANAGEMENT
- PRODUCTION ANALYSIS
- OEE & MAINTENANCE
- PROCESS OPTIMIZATION
AND MORE...

**DATA COLLECTION**

PLUTO CAN MANAGE MILLIONS OF DATA FROM LOCAL DATA SOURCES AND IIOT SERVERS. IT INTEGRATES MULTIPLE DATABASE CONNECTORS AND A ROBUST HISTORIAN CAPABLE TO LOG DATA, ALARMS AND ANALYTICS.

**LIST OF DATABASE & HISTORIAN CONNECTORS**

SQL SERVER - MYSQL - MARIA DB - POSTGRE SQL - ORACLE - OPC HDA - OSIsoft PI - BRAINCUBE WONDERWARE HISTORIAN - GE PROFICY HISTORIAN - PANORAMA IT - PCVUE HISTORIAN

**LIST OF REAL TIME DRIVERS**

OPC DA - OPC UA - CSV & TEXT FILES - SIEMENS OZW - SIGFOX - AEMP - EWON DATAMAILBOX AND 100+ AUTOMATION COMMUNICATION PROTOCOLS IN OPTION (MODBUS, BACNET, PROFIBUS, ...)

**LIST OF SCADA AND OPC SERVERS CERTIFIED**

SIMPLICITY - Citect - CONTROL MAESTRO WIZCON - EWON - IFIX - IGNITION - INDUSOFT INTOUCH - KEWARE - MATRIKON - PANORAMA - PCVUE - SOFTING - WAGO - WEBACCESS - WINCC

*for other scada and opc servers please contact us.*
EWON FLEXY: THE PERFECT COMBINATION
PLUTO INTEGRATES AN IOT DRIVER TO COLLECT DATA AND ALARMS FROM ALL EWON FLEXY PRODUCTS IN THE WORLD, CONNECTED TO THE POWERFUL HMS TALK2M CLOUD. THE CONFIGURATION IS SIMPLE AND ENABLES TO LOG ALL VALUES IN THE MOST POPULAR SQL DATABASES.

THE PERFECT INTEGRATION BETWEEN EWON AND PLUTO, POSITION THIS SOLUTION AS THE BEST OPTION TO BUILD REMOTE ASSET MANAGEMENT SOLUTIONS FOR MACHINE BUILDERS, SMART INDUSTRIES AND SMART BUILDINGS.

DATA TRANSFORMATION

ANALYTICS, STATISTICS, INDICATORS...
PLUTO ANALYTICS TRANSFORMS RAW DATA INTO VALUABLE INFORMATION, STATISTICS AND PERFORMANCE INDICATORS. USERS CAN CREATE EXPRESSIONS COMBINING MATH INSTRUCTIONS AND DATA FROM ALL DATABASES CONNECTED TO THE PROJECT. EACH EXPRESSIONS CAN BE EXECUTED AUTOMATICALLY AND THE RESULT SAVED INTO A NEW SQL DATABASE.

ALARMS
PLUTO ALARMING MODULE ENABLES TO CREATE ALARMS FROM REAL TIME SOURCES BUT ALSO FROM ANALYTICS. THE OBJECTIVE IS TO LOG AND IMMEDIATELY NOTIFY PEOPLE IN CASE OF A PROCESS DEVIATION, AN OVER-CONSUMPTION, A LEAK OR ANY OTHER EVENT.

DATA NAMING
PLUTO ALSO SUGGESTS RENAMING EACH TAG TO CREATE A SIMPLE TAG NAMING ORGANIZATION TO MAKE THE PROJECT MORE USER FRIENDLY.

DATA EXTRACTION

PLUTO CAN EASILY EXTRACT AND AUTOMATICALLY PUSH DATA TO A LOCAL OR A CLOUD SERVER.

PLUTO REPRESENTS THE MOST SIMPLE AND THE MOST EFFICIENT SOLUTION TO AGGREGATE DATA FROM MULTIPLE SITES TO FEED ENTERPRISE APPLICATIONS OR ANOTHER PLUTO SERVER IN THE CLOUD.
PLUTO DESIGNER

PLUTO SUGGESTS A FRIENDLY DESIGNER TOOL TO CREATE REPORTING, MONITORING AND MOBILE APPLICATIONS. OBJECT ORIENTED AND VERY INTUITIVE, THE TOOL DOESN’T REQUIRE ANY SPECIFIC COMPETENCES TO CREATE DASHBOARD, REPORTS AND SMARTPHONE PROJECTS. THE WHOLE CONFIGURATION IS DONE THROUGH A LIST OF PROPERTIES ENABLING TO CONFIGURE THE TAG NAME, THE STATISTICAL FUNCTION, THE PERIOD AND ALL APPEARANCES OPTIONS TO MAKE IT NICE (COLOR, FONT, SIZE, ICON, LEGEND, TITLE...)

THE CONFIGURATION

MODERN TEMPLATES ARE MADE THROUGH AN IMPRESSIVE OBJECT LIBRARY, PROJECT RESOURCES AND A HUGE COLLECTION OF GRAPHICAL ELEMENTS. ANYONE WITH ONLY 2 DAYS TRAINING CAN CREATE FANTASTIC APPLICATIONS.

Moreover, PLUTO enables to develop applications very fast by providing intelligent objects, import & export functions, applications templates that can be use in multiple projects. All objects can be easily configured with a long list of statistical functions.

LIST OF STATISTICAL FUNCTIONS:

» LAST VALUE
» MIN VALUE
» SUM
» STANDARD DEVIATION
» COUNT ON & OFF
» DURATION ON & OFF
» PREVIOUS VALUE
» MAX VALUE
» AVERAGE DEVIATION
» STANDARD DEVIATION P
» COUNT & COUNT BETWEEN
» DURATION BETWEEN
» FIRST VALUE
» AVERAGE VALUE
» INDEX DEVIATION
» EFFICIENCY
» ALARM OCCURENCE
» ALARM DURATION
LIST OF AVAILABLE OBJECTS:

» VALUE
» DATE
» LABEL
» DATA TABLE
» STATISTICAL TABLE
» ALARM TABLE

» BAR GRAPH
» PIE GRAPH
» TIME CHART
» XY CHART
» LINEAR REGRESSION CHART
» RADIAL GAUGE

» HORIZONTAL GAUGE
» TANKS & MIXERS
» MOTORS & PUMPS
» DEVICES
» IMAGE
» VIDEO

APPLICATIONS

PLUTO OFFERS MULTIPLE WAYS TO MANAGE AND OPERATE YOUR DATA. BASED ON A CLIENT SERVER ARCHITECTURE, PLUTO SUPPORTS MULTIPLE CLIENT CONNECTIONS TO RUN ALL MODES TOGETHER.

MONITORING MODE

LIKE DIGITAL SIGNAGE APPLICATIONS, PLUTO CAN RUN DASHBOARDS ON MULTIPLE MONITORING SCREENS. DASHBOARDS ARE MADE WITH LIVE ANALYSIS, STATISTICS, MESSAGES AND COMPANY INFORMATION.

REPORTING MODE

PLUTO IS ALSO A REPORTING TOOL, CAPABLE TO GENERATE AND DISTRIBUTE REPORTS TO MULTIPLE RECIPIENTS BY EMAIL. REPORTS CAN BE SENT IN BOTH PDF AND XLS FORMAT.
PLUTO DIAGNOSTIC

Each authorized user can use the Pluto Client Application to play and visualize live reports any time. Users can also interact and for example playback reports from any date, or adjust the report period manually to refresh it on demand.

Diagnostic mode is the most efficient application to do troubleshooting.

PLUTO WEB

Pluto Web is a password protected solution suggesting multiple applications. Users can visualize and generate reports on demand, play monitoring applications with live dashboards from a web browser, create mobile apps for multiple users and finally interact with their plant data through a data mining application.

Pluto Web is fully responsive and totally customizable.
WORLDWIDE MAP

FOR MACHINE BUILDERS OR INTERNATIONAL COMPANIES, PLUTO WEB INTEGRATES GOOGLE MAP TO QUICKLY MANAGE MULTIPLE SITES AND MACHINES. COLORED MARKERS ENABLE TO SEE SITE STATUS, KPI AND ACCESS DIRECTLY TO THE REAL TIME MONITORING.

ABOUT US

EXAKOM IS A PIONEER OF PLANT AND IIOT DATA ANALYTICS SOFTWARE PRODUCTS FOR AUTOMATION DATA AND ALARMS. OUR OBJECTIVE IS TO ALLOW EVERY FACTORY AND EVERY CITY TO START EFFICIENTLY THEIR DIGITAL REVOLUTION WITH A SIMPLE AND A POWERFUL SOLUTION.

OUR TYPICAL CUSTOMERS WANT TO UNDERSTAND THE INTERACTION BETWEEN PARAMETERS LIKE THE ENERGY AND THE PRODUCTION, COMPARE BEHAVIORS AT DIFFERENT TIME, DETECT AND BE INFORMED ABOUT ANY DEVIATIONS IN REAL TIME.

EXAKOM HAS HUNDREDS OF INTERNATIONAL REFERENCES, MORE THAN 100 CERTIFIED SYSTEMS INTEGRATORS, MULTIPLE DISTRIBUTORS AND PROVIDES TRAINING AND TECHNICAL SUPPORT WORLDWIDE.
EXAKOM is a software company specialized in big data and digital solutions for plant and IIOT analytics. Based in Provence and Boston, the company is selling its products since more than 15 years in more than 20 countries through a network of qualified partners. Its leading product is Pluto Live & Web Report, a modern and robust out of the box software to do live monitoring and reporting applications.