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JMobile

The X Platform Software

EXOR

JMobile

Highlights

High User Interface Experience

Create IIoT ecosystems with reduced risk

From Shop Floor to Cloud / Big Data

Deterministic Communication via TSN*

Real Interoperability

Great HTML5 interface with JM4web

Efficient scripting with JavaScript

Excluding variants, more than 50 communication protocols readily available for all platforms with gateway function

Browser widget

Integrated PLC runtime as an option for compact control solutions. Include full support of networked I/O

Software and documentation available in 4 languages: EN, DE, FR, ZH

Multi platform runtime: Linux ,Windows, Windows CE, HTML5

Exor began developing the JMobile software in 2006 in close cooperation with a group of major clients: Exor has invested over 300 of man-years in development. This trusting collaboration with the market has continued throughout the subsequent years and as a consequence has led to a unique software package, responding in a secure and stable manner to real needs.

The three principles that have guided and will continue to guide this development are:

- Remain open to the major fieldbus / protocols of communication
- Use open and universally recognized market technological standards such as HTML5, SVG, XML
- Maintain ease of use and extremely secure all integrations of market leading 3rd party software

These three principles working together leads Exor and our customers to the best of all situations where the secure, solid JMobile backbone of highly critical software is able to contain and implement in use the software that is needed.

JMobile with a fully integrated CODESYS PLC has grown to permit communication to all I/O, Sensors, Motion devices via the major protocols of PROFINET, EtherCAT, POWERLINK, EtherNet/IP, Modbus amongst others. Transmitted using OPC UA standard and soon pub/sub via TSN* communication networks including TSN* JMobile covers the Connectivity, Device management, Process management and Data Visualization components of any platform.

*Road map for 2017

JMobile -
The software inside
the X Platform
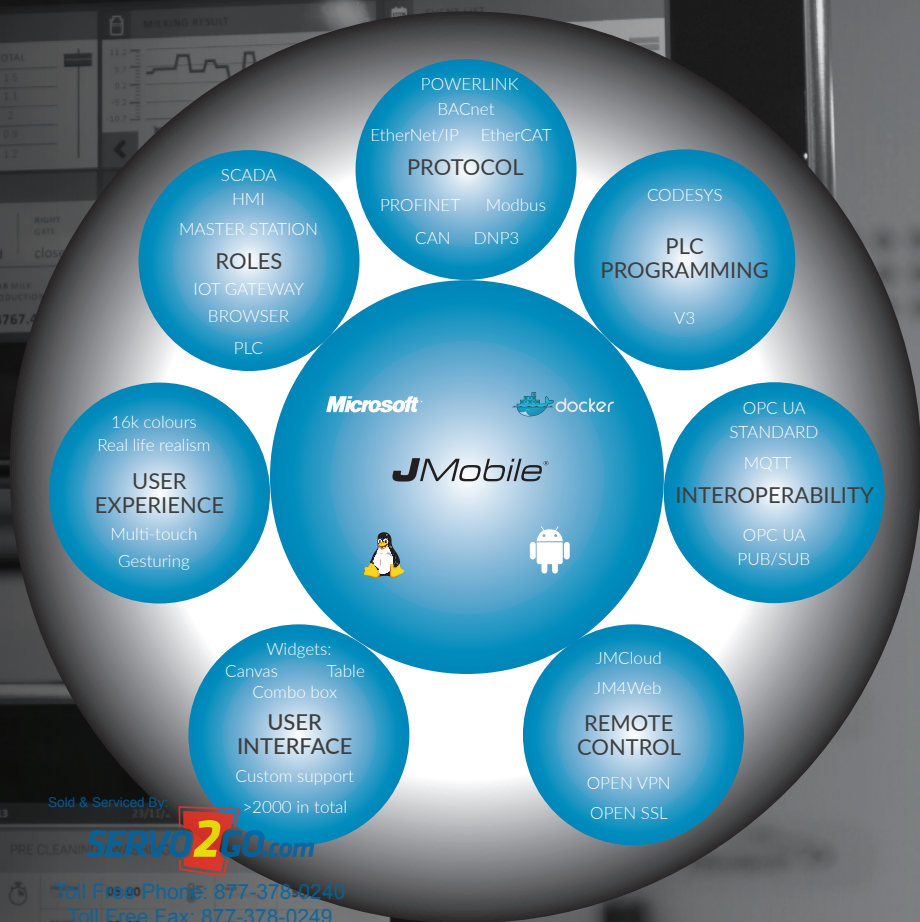
PROTOCOL
POWERLINK
BACnet
EtherNet/IP   EtherCAT
PROFINET   Modbus
CAN   DNP3

ROLES
SCADA
HMI
MASTER STATION
IOT GATEWAY
BROWSER
PLC

PLC PROGRAMMING
CODESYS
V3

USER EXPERIENCE
16k colours
Real life realism
Multi-touch
Gesturing

JMobile
Microsoft
docker

INTEROPERABILITY
OPC UA STANDARD
MQTT
OPC UA PUB/SUB

USER INTERFACE
Widgets:
Canvas   Table
Combo box
Custom support
>2000 in total

REMOTE CONTROL
JMCloud
JM4Web
OPEN VPN
OPEN SSL

New Features

- Multi touch and Gesturing
- Supports OPC UA Server and Client
- Enhanced realism for graphic images
- Advanced support for custom widgets
- Canvas widget: fully customized graphic objects
- Table widget: extreme table design and layout improving quick and accurate data acceptance
- Supports OPC UA Alarms, Historical Alarms and Trends
- Alarm management widgets: easier handling of options in Active alarms
- Communication via BACnet, DNP3 Outstation
- Protocols for Automation Direct, Emerson, Schneider, Delta
- FTP Client with the new actions FTPGet FTPPut
- Fastboot under 15 secs depending upon project complexity

JMobile

JMobile also covers inside of a smart scada or as a simple IoT gateway, sending all data to higher Enterprise levels and external interfaces via the highly robust and secure OPC UA pub/sub or where deemed suitable a MQTT* broker. JMobile client-server architecture is based on current HTML5 web technologies with the QT engine and Scalable Vector Graphics. This provides users with advanced control and remote supervision from any browser, any device (smartphone, tablet, or computer).

This seamless communication which is already envied as a real technical achievement does not convey the completeness of JMobile. What began as a close contact with customers has remained so deeply engrained into the development process that the beautiful user experience is a defining attribute.

Through a rich set of symbols, widgets and advanced functions (e-mail, RSS, PDF Reporting, Scheduler, HTML5 Browser, Gesturing), incredible graphic images, Canvas, the main design element in HTML5 in association with Javascript, table design and layout for even the most extreme of data visualization needs, BACnet, CANopen and Network I/O stacks available for integrated PLC via CODESYS v3, PING for easier network diagnostics, DNP3 Outstation for all smartgrid applications, all the way down to Indexed Tags and a full FTP client.......it is all intuitively easy to use.

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*Road map for 2017

Key Features

- Pure Web Technology
- Created and Developed since 2010
- Based on HTML5/JS
- Ready for responsive design
- 100% HTML5 web HMI Interface
- Realtime Data Update (up to 10x per second)
- Multitouch Support
- Ready for iOS and Android
- Ready for most common Browsers for PC and Smart Devices
- Scalable SVG Vector Graphic
- Ease of Use. No HTML competence required
- Full JMobile library of over 2000 Widgets
- Available as Component for 3rd party platforms
- Trends Support
- Recipes
- Multilanguage
- Javascript

JMobile 4 Web

JM4web is the seamless connection between Industrial control applications and ubiquitous mobile devices such as smart phones and tablets. Developed some six years ago and subsequently continuously updated, it now provides the most comprehensive Pure Web Technology available, designed and maintained by Exor, a company with 45 years experience in control applications.

With HTML5 and Javascript technology embedded in JMobile, all that is needed to remotely monitor and control applications is a web browser with HTML5 support: Firefox, Chrome, Safari and Microsoft EDGE

No "apps" needed when operating from mobile devices, hence reducing the risk of compatibility across various operating systems.

With JM4web you can have instant Web access to JMobile applications via the integrated Web server included in all JMobile runtime systems.

JM4web allows for creating the exact responsive user experience for the target mobile device. The Web server will detect the resolution of the connected client device and serve the appropriate pages.

JM4web is the ideal complement to the powerful remote connectivity and visualization tools already available in JMobile.

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JMcloud

JMcloud is a Secure Open VPN and SSL based solution that allows to remotely manage Industrial installation in an easy and yet extremely safe manner, avoiding expensive interventions on site.

Simply by entering the credentials of the JMcloud portal, you have direct access to the system and you will be able to perform maintenance and upgrade, using the JMobile platform.

After activating the secure VPN communication to the panel you can reach all the devices connected to the network, such as PLCs, inverters and I/O and you can manage and configure them via proprietary software.

JMobile client and JM4Web, integral parts of the X platform, allow you to view the user interface through both desktop and mobile devices (smartphones and tablets), providing a full monitoring and preventive maintenance service.
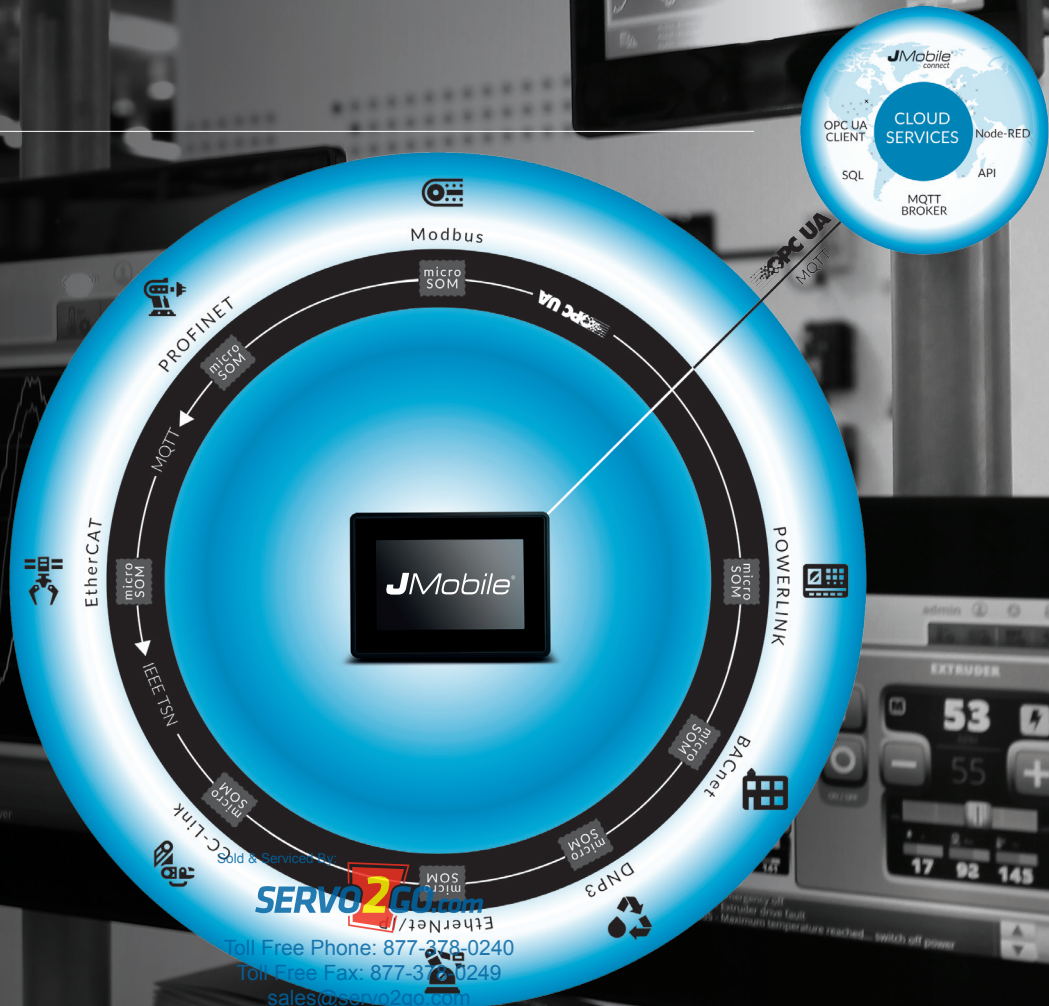
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*Road map for 2017

JMcloud

JMobile

Modbus

micro SOM

PROFINET

OPC UA

MQTT

EtherCAT

micro SOM

micro SOM

IEEE TSN

IO-Link

micro SOM

micro SOM

EtherNet/IP

DNP3

micro SOM

BACnet

micro SOM

POWERLINK

JMobile connect

CLOUD SERVICES

OPC UA CLIENT

Node-RED

SQL

API

MQTT BROKER

OPC UA

MQTT

EXTRUDER

53

55

17   92   145

JMcloud

JMcloud components:

1) JMcloud Connect is an application used to connect to the cloud service and view and connect to all devices enabled and belonging to that domain. This allows direct monitoring and remote control of all devices. The configuration and maintenance of devices are supported.

2) JMcloud Servers are the heart of the whole infrastructure. It stores all the configuration data, the access policies, and keeps track of the connections to the endpoints (HMI and PLC).

3) JMcloud Service is used by HMI for Cloud connection

   a) For Series eTOP500/600, it comes as the HMI Cloud Enabler that uses the single Ethernet port for PLC and for Cloud connection. If however network separation is required there is the PLCM07 Hardware which uses two separate Ethernet ports, LAN for HMI/PLC and WAN for Cloud connection.

   b) For the eSMART family (except eSMART107), it comes as a system service and uses the single Ethernet port for PLC and Cloud connection. If however network separation is required a router such as the eXware will be needed.

   c) For the eX700 series, eXware and eSMART107, it comes as a system service and the possibility of network separation are already in built.

4) PLCM09 is a wireless modem plug in available for the eX700 and eXware. With 4 LED indicators on module and network status, a microSIM slot and powered via the plug in connector the PLMC09 adds the ability to communicate with all machines and systems worldwide.

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