

**JMobile<sup>®</sup>**

The Freedom You Need. The Control You Want.

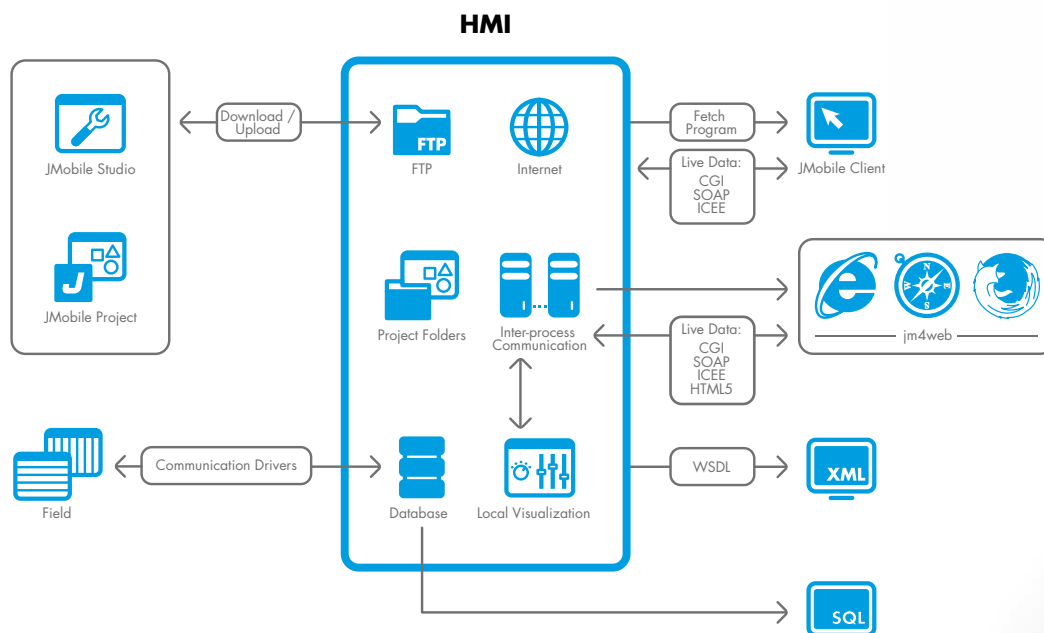


## THE WEB-BASED HMI SOFTWARE THAT SETS NEW STANDARDS

**JMobile® stands for flexible and convenient operation, visualization and interaction anywhere at anytime. The innovative process visualization software with its integrated CoDeSys soft PLC has been designed from the ground up as a cross-platform application. It runs efficiently on embedded systems as well as on computers and is compatible with different operating systems. For smartphones and tablet computers, there is a web solution available.**

The software is based on the latest future-proof web technologies and offers plenty of HMI and SCADA features. Thanks to the architecture of its central database, connectivity to external databases, and its various platform independent communication drivers, JMobile supports data transparency from the field level up to the management level. The browser-based user interface with its advanced design ensures an outstanding user experience.

JMobile sets completely new standards with regard to ease of customization and remote access efficiency – whether it is about controlling smart building technology, maintaining manufacturing plants and machinery, or accessing marine systems. Using the comprehensive development environment, you can develop and simulate any application in no time.



The modular JMobile architecture: cross-platform operation, monitoring and control almost anywhere at anytime

## THE ARCHITECTURE FOR FLEXIBILITY AND FUNCTIONALITY

JMobile development is based on over 20 years of experience Exor has gained in implementing innovative HMI systems. The result: A client/server architecture designed to ensure the highest possible flexibility and mobility as well as extensive functionality – which already has a proven track record running on the UniOP operator panels. The software suite consists of three complementary modules:

- **JMobile** (runtime environment with database)
- **jm4web** (platform independent thin client, based on HTML5)
- **JMobile Studio** (integrated development environment)

Open standards and a large variety of native drivers provide a high degree of compatibility. Consistent application of the modular design principle facilitates customization, and the same web technologies as are used for online banking ensure secure remote access.

VISUALIZATION WITH **EXTRAORDINARY**, EYE-CATCHING DESIGN



**JMobile**  
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Friday 01.22.01 22:10

Audio source # 2 : Philip Glass . Arioso No. 2 for String Orchestra

home

Providing an **exceptionally convenient** user experience:

widgets designed using **advanced vector graphics, intuitive navigation**



Now showing action: custom

id

edit

actions

calendar

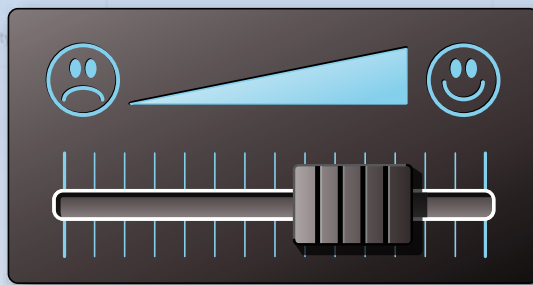


light n. 122

Floor floor lamp in the lobby



Light intensity



12 : 30

Hour Minutes

everyday

weekly

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## INDIVIDUAL USER INTERFACES WITH CUTTING-EDGE DESIGN

All objects of the JMobile GUIs have a modular design. Built using scalable vector graphics, they offer a premium look and feel on hardware of any size. They are quickly displayed in current browsers and do not require additional plug-ins.

Thanks to the modular design principle, you can select animated graphics and objects from the large library and combine them into new, complex objects by using drag & drop technology. Or customize the colors and shapes of the elements in no time – to dynamically show the data received from the PLC. For even more convenience, there is a large number of project and page templates available for complete applications: for building and home automation, for factory automation and for marine systems. A fact that saves you valuable engineering time.

### Large symbol and object library for convenient customization

- Pictures and multi-state displays
- Analog gauges
- Weather and RSS widgets
- IP video and multimedia player widgets
- Bar charts and line charts for trending
- Indicator lamps and hotspot buttons
- Slide controls, rotary switches and buttons

## HIGH-END VISUALIZATION, OUTSTANDING EASE OF USE

In the areas of usability – visualization, navigation and interaction – JMobile provides a unique experience. Using scalable vector graphics and interactive widgets, the underlying data are represented on a clearly structured, high-class user interface.

Navigation is based on the usual browser look and feel: this allows intuitive operation and reduces the initial training effort. Getting access to the Internet and to applications is simple. Interaction is possible using almost any kind of hardware platform. So you always have the information on hand that you need for efficient and effective action.

### Usability: wishes come true

- Widgets natively based on SVG vector graphics
- Browser access with any HTML5 compatible web browser
- Cross-platform use, from embedded HMI to industrial computers



**BATCH TANK T245**

WEIGHT: 685.3 Kg    MIXER TMP: 70 C

TEMP: 65 C    TIME ELAPSED: 0 Hrs

CVPCS-01 VALVE

CVWF-01 VALVE

CVWF-02 VALVE

PT45 ENABLED

RC PUMPS ON    RC PUMPS OFF

START

**PROCESS OVERVIEW**  
> AUTOMATIC SEQUENCE > BATCH TANK

**INTAKE STATISTICS**    12:38:28    mBar 1.55

**OUTTA...**    28    mBar 3.21

**Cost-effective** visualization software offering plenty of **SCADA features**

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## COST-EFFECTIVENESS JOINING FARSIGHTEDNESS

Saving time, reducing cost, increasing productivity – everybody talks about these requirements. Using JMobile, you have a powerful tool that helps you put them into practice. From development through commissioning to remote maintenance, the JMobile software helps simplify processes and offers the data transparency that best suits your requirements.

You just need to use it! Based on learning by doing – supported in the startup phase by means of service router access – or, if required, after project-oriented training and introduction provided by local employees of the international Exor sales and service network. We take every effort to ensure your investment in JMobile meets your expectations.

### Advantages that pay off well

- Remote data access almost anywhere at anytime – saves time, reduces travel costs
- Remote diagnosis, support and maintenance – increase plant uptime and productivity
- Clear and concise graphical user interface – reduces operating errors and follow-up costs
- Automatic software deployment – no installation cost
- Using conventional off-the-shelf devices – low hardware cost
- Unified development and application environment – saves time and training cost
- Complete industry applications available – no programming effort

## ADVANCED FUNCTIONALITY TO KEEP EVERYTHING UNDER CONTROL

Operation, monitoring and control: JMobile offers full HMI functionality in an exceptionally convenient way. This includes automatic runtime installation during the first project download, multi-language capability, and remote access.

Widget and page templates for SCADA functionality like alarm handling, scheduler or SMS messaging can easily be customized, therefore engineering costs are kept low. JMobile delivers the required information in real time and in a clearly arranged manner, e.g. in the form of a cockpit display – for a quick overview and quick, effective action.

### Useful features, clearly arranged widgets

- Alarms and events
- E-mail and SMS messaging
- Timer and scheduler
- Trend editor and viewer
- Data logging and recipe management
- Online and offline simulation
- Import of tag lists from various controls
- Line chart and histogram
- Data transfer and smart metering
- Browser widget for CoDeSys web visualization
- Multi-language capability



FLOW A  
CONTROL

BENZYL  
SALICYLATE

ALPHA  
ISOMETHYL  
IONONE

BMHCA

START

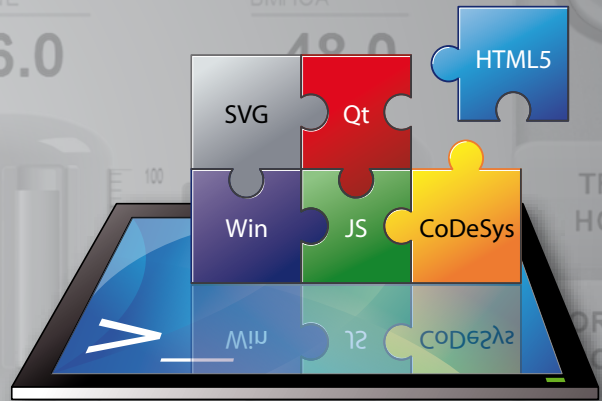
22.0

86.0

48.0

**Powerful, scalable** visualization and control solutions: **easily** and **securely** implemented

FLOW B  
CONTROL



TREE  
HOME

FORMULA  
PROCESS

BLEND

DATA  
LIST



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## INNOVATIVE INTERIOR – SIMPLY IMPRESSIVE INTERFACES

An outstanding visualization and control solution requires the most advanced technology. Even more so if it is meant to offer more than just HMI functionality, to be cross-platform and future-proof. This is why JMobile uses the latest, open web standards. Object-oriented programming, large libraries and various communication drivers ensure you can customize the software with little effort and make use of the broad range of remote access options.

It is easy to integrate additional clients into the client/server architecture. Export to web applications, cell phones or tablet applications is also done in no time. There is a comprehensive development environment available that helps you conveniently create your own applications. Upon request, we will develop a customer specific application for you so that you can fully concentrate on your core business.

### Programmed for your success

- **Modular client/server architecture featuring separation of services and visualization**
- **Central database**
- **Cross-platform runtime environment**  
(Windows, Windows XP/CE/Embedded Standard 7, Linux, etc.)
- **Web-based communication between clients and servers**  
(on IE 8+, Firefox 3.6+, Safari 5+, Chrome 6+, Opera 11+, etc.)
- **Remote access via the Internet, GPRS, HSDPA and cloud applications**
- **Use of open protocols and standards**  
(XML/HTML5, Qt – WSDL, CGI/SOAP/ICEE – SVG, JavaScript)
- **Platform independent communication drivers for field devices**  
(KNX, BACnet, S7 MPI, Profibus DP, Modbus, CANopen, EtherNet/IP, etc.)
- **Integrated CoDeSys soft PLC**

## COMMUNICATION AS SECURE AS ONLINE BANKING

A client/server system naturally requires maximum communication security, not only within the system itself but also when exchanging information with other infrastructures. For JMobile to meet these high security requirements, we have carefully chosen during its development stage the best suited technologies, standards and strategies, e.g. SSL encryption on the same security level as used for online banking.

### Behind the scenes: solid security technology

- **Secure web access to dynamic objects possible without browser plug-ins**
- **SSL encryption**
- **Executable within a VPN**
- **Firewall-friendly due to utilization of HTTP port 80**
- **Sophisticated user and rights management**



At **www.jmobile.net**, you can get more information on JMobile and on how to download a software demo.

Shortcut for devices with a QR reader app installed:  
Scan the QR code with the device camera and your web browser immediately opens the web page providing the additional information.

If you have any questions, or if you require further information, please feel free to get in touch with us using the contact details below. We will be happy to help you.

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