

Standardized, open and Pure Web

The use of standardized and open technologies for control, structuring, communication and presentation, should result in significant cost reductions. Both today and in the future.

Visualization in pure web technology combined with as a consistent vertical object orientation based on OPC UA, provides significant increased capabilities within process management systems.



Standardization facilitates **copying**; a solution made for one application can be used for any other application.

Open technology; means the **freedom** to choose the most cost effective solutions without having to take into account the specific requirements from particular suppliers or brands.

Communication via the World Wide Web means **reduced** operating cost, improved basis for decisions and reduced exposure from hazardous working environments.

Scalable systems provide the **flexibility** to adapt to changes in conditions with limited use of resources.

OPC UA TECHNOLOGY

Offshore Systems AS is a member of the OPC Foundation



OPC UA is the data exchange standard for safe, reliable, manufacturer- and platform-independent industrial communication. It enables data exchange between products from different manufacturers and across systems.

OPC UA provides secure transfer of realtime data from the sensor to the outside world

- Within machinery
- Between machines
- Between machines and the outside world
- Between systems (also from different suppliers)
 - *Bringing together the subsystems into one system speaking one language*

OPC UA provide these properties :

- Standardized (both within the system and between different systems)
- All platforms (Microsoft, Apple, Linux, etc.)
- Scalable (the system can be easily extended or vice versa)
- Safe (active use of security certificates)
- Reliable communication (information stored and transmitted when the receiver is ready)

OPC UA is the facilitator for





HYPertext MARKUP LANGUAGE (HTML) 5

HTML5 is a markup language used for structuring and presenting content on the World Wide Web.

It includes detailed processing models to promote more interoperable implementations; it extends, improves and rationalizes the markup available for documents, and introduces markup and applications programming interfaces for complex web application. For the same reasons, HTML5 is also a candidate for cross-platform mobile applications, because it includes features designed with low-powered devices in mind.

HMI & SCADA WITH PURE WEB TECHNOLOGY

atvise® is the first and only professional HMI product that has been developed from scratch with web-standards.

Only such technologies will be displayed and executed by all common web browsers without additional plug-ins, ActiveX, Java or Silverlight - today as well as in future.



Independently atvise® scada supports all typical SCADA functions like alarming, historization, trending, user management, multi language, etc.

ADVANTAGES OF PURE WEB TECHNOLOGY:

- No client installation necessary - web browsers are available everywhere
 - At the desired plant level or via remote access.
- No plug-ins
 - Enjoy the freedom of open standards: no Java, no Flash, no ActiveX or similar necessary.
- Powerful thanks to vector graphics (SVG)
 - Better visual effects (gradients, opacity, ...), loss-free scaling for all resolutions, high performance.
- Future-proof
 - The only requirement is a device with a web browser.
- Responsive Web design
 - Different sizes of operating terminals of a plant, different displays of a control room, or mobile devices: The content and the interface adapt to the situation automatically.
- BYOD - Bring Your Own Device
 - Thanks to the device-independency in combination with pure web technology access can be granted to private devices immediately.
- Secure as your bank
 - Thanks to approved safety standards like https.