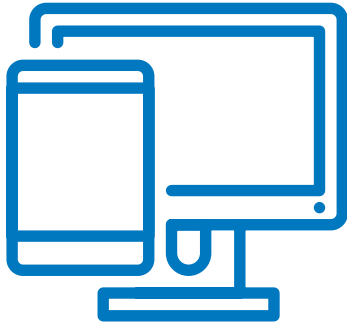


# evon XAMControl Web Visualisation



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## CENTRAL ADMINISTRATION

Central administration of all automation blocks for WPF and web applications

## OPENNESS

Use of modern technologies and programming languages

- HTML5
- Angular
- TypeScript
- CSS

## DEPLOYMENT

Simple deployment on an arbitrary number of OnPremise web servers with remote access capability

## INTERNET ACCESS

Enable remote access capability by enabling web visualisation via XAMControl Cloud Relay

At evon, we have our finger on the pulse of time and will continue to implement and even strengthen the use of web technology for system visualisation. A unique hybrid solution is offered with the evon XAMControl.

The comprehensive WPF-client has already been successfully established as a desktop application in many different sectors of industry such as building automation, traffic control, manufacturing, and many more. Whether the application is the management of alarms, users, maintenance, trending, or other functions, evon XAMControl's open system architecture can be easily extended and adapted.

This is also our claim for web visualisation as an extended operating client. The central administration of automation objects in the application and the evon XAMControl ACC store ensure that both worlds can be served. This makes it possible to manage an HTML5 web panel and a WPF panel in the same way and to provide them for system visualisation. This ensures that the existing application continues to be completely updateable, and systems can be gradually prepared for a future using web technology.

The management of web panels offers the possibility of creating templates to ensure that development teams create very simple panels while simultaneously guaranteeing consistent styling.

Complete openness in both programming and implementation has always been a goal for evon XAMControl. We have gone a step further with web visualisation and offer all the elements in the evon XAMControl ACC Store. Basic packages for the web have been created for this. All basic and system elements for the visualisation are freely available and can be completely customised according to the customer's needs. For example, the login window, the header, system settings, etc. can all be changed as required. This makes the entire web visualisation completely adaptable to every customer need.

Dynamic Visu, which is available in the evon XAMControl ACC Store, can be used to create generic web visualisations very easily and without significant additional programming effort. All instances are provided for the user in the web visualisation dynamically in tile format. Several different tile sizes are available as system functions.

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## MULTILANGUAGE

Simple configuration and translation into an arbitrary number of languages via Excel integration

## ACC STORE

All basic and system components are available in the ACC Store and are completely customisable

## SECURITY

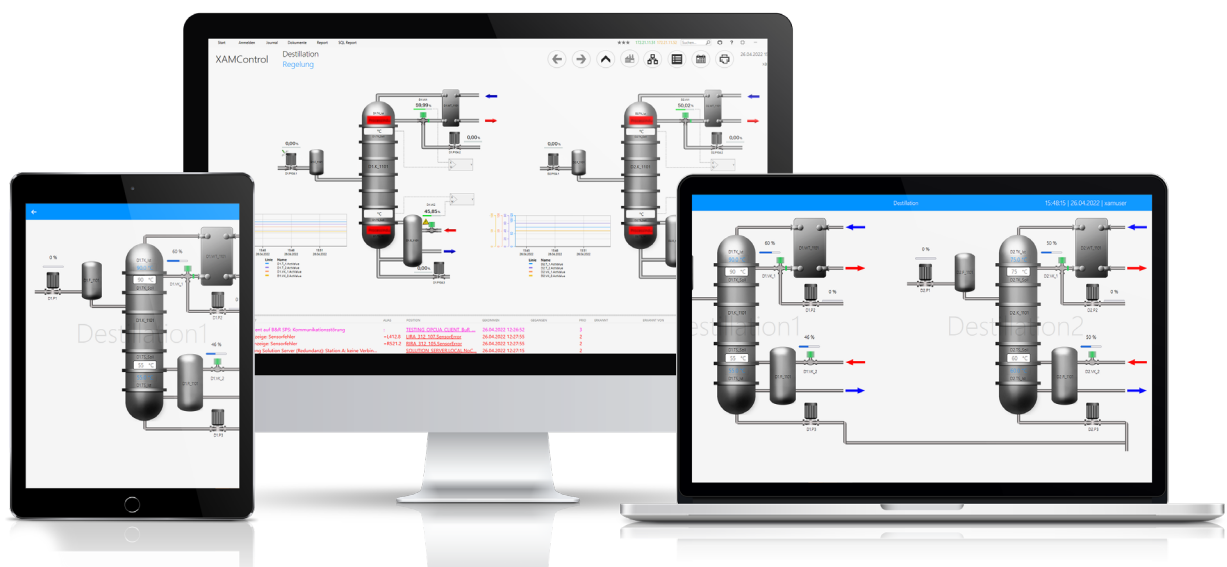
Encrypted HTTPS connection OnPremise and via the relay for remote access

The user administration function in evon XAMControl is used the same way for all applications and functions. Access to the web visualisation can be granted to each user individually. Remote access can also be configured for each user and individually granted.

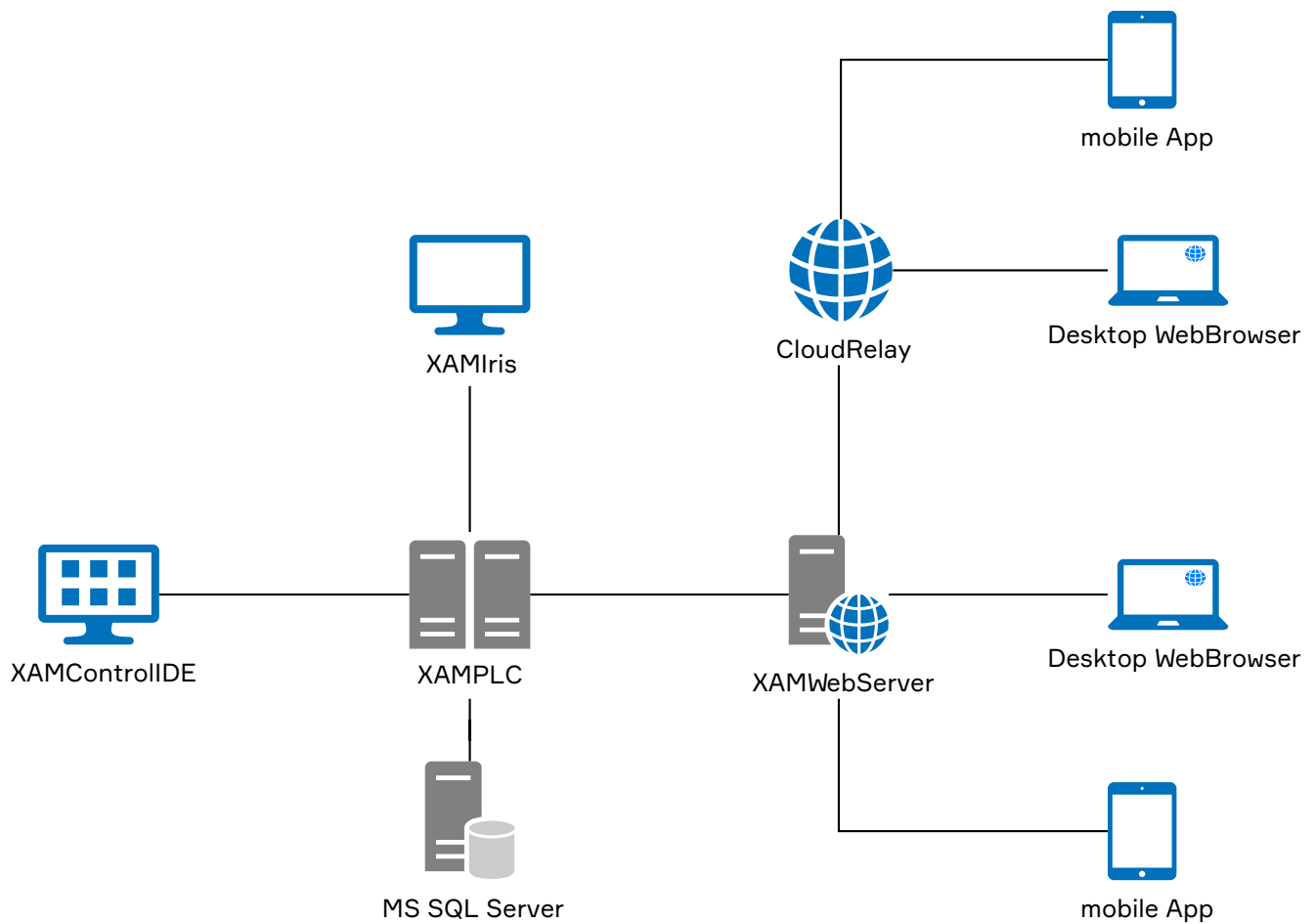
The XAMControl web server provides all information for the visualisation. This web server can be configured as often as required with different settings and distributed on different hosts in the OnPremise network. Configuration is very easy and can be completed in a short time and with just a few clicks.

Redundant controllers are also supported. Redundancy on the web server level is easily achieved by installing and configuring a second web server. Remote access when on the road is provided via the XAMControl WebRelay function.

Alongside the ability to call up the new visualisation on a mobile phone or tablet using the browser, there is also an iOS app for Apple devices. This is available in Apple's app store. The connection is established OnPremise in the network or via remote access via a web relay ID.



# evon XAMControl Web Visualisation



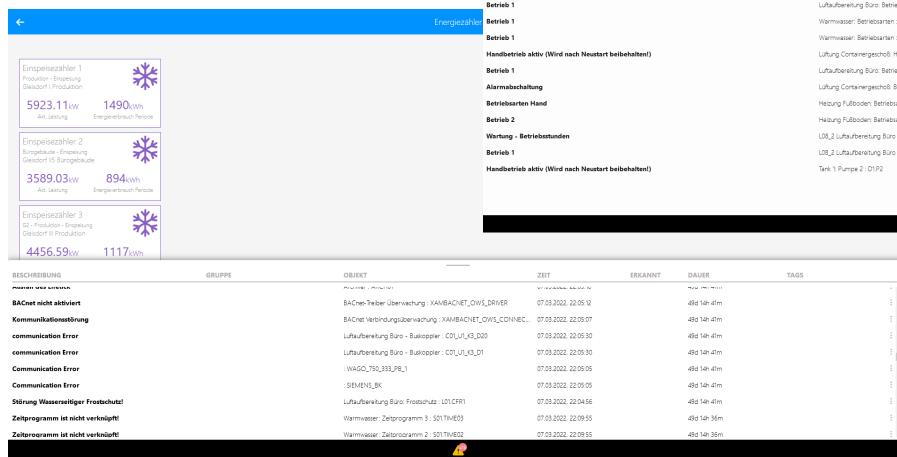
## System Architecture

In the standard version, the individual components are executed on the same computer. It is also possible to distribute the components across the network.

The data that is provided for the visualisation are locally on site via OnPremise and are provided for web visualisation via the configured XAMWebServer. If remote access to the site data

is required via the internet, evonXAMControl also offers the possibility to provide the data via XAMControl Cloud WebRelay. In doing so, the data always remains at the local site and the data exchange is performed with an encrypted HTTPS connection via the relay. A local connection to an on-site browser is always established via the XAMWebServer and can also be provided with a secure HTTPS connection.

# evon XAMControl Web Visualisation



## MOBILE APPS

- iOS App
- Android App

## WEB EDITOR

Improved web editor for the even simpler creation of web process views

## ALARMING

Basic user controls and back-end services for web alarm lists (active and historical alarms)

## TRENDING

Basic user controls and back-end services for trending

## DASHBOARDS

ACC Store package to configure dashboards

## Outlook – Vision

The hybrid solution for system visualisation of evon XAMControl is under continuous development. Updates are always available in the ACC Store with new user controls, dashboard elements, and basic web panels for the existing and new ACCs. The evolution in web visualisation is already undergoing with new backend services. This will be used for both WPF clients as well as web visualisation. The focus is on alarm notification with the possibility of receiving notifications on the client or on mobile end-devices. The next steps in the evolutionary path will consist of trending and a ticketing system (helpdesk/system logbook).

The configuration of settings and services will continue to be done in the programming environment XAMControlIDE, whereby the web editor is continuously under development. This ensures that the visualisation possibilities for evon XAMControl are ready for the future without losing the comfort of update possibilities for existing systems. These can be adapted to use web technologies to an arbitrary degree.