TechSight

Multiplatform smart client for data visualization

→ **high-quality graphic display**
→ **intuitive functions**
→ **high performance**

TechSight is a smart visualization client for graphical presentation of technical data from control, monitoring and informations systems. It is supported by the Twister software platform, which provides a powerful Human Machine Interface (HMI). It offers its users a broad range of intuitive functions and display in the fully graphical environment of standard office (desktop and portable PCs, tablets) and specialized workstations located in central control and monitoring centres or trading control centres. TechSight is a multi-platform solution that runs on both Windows and Linux.

→ Basic Characteristics

- updated product supports all customary ways of displaying technical data (schematics, tables and graphs) in a balanced manner
- schematics usually represent the topology of the monitored or managed technology and permit data to be displayed as numbers, text and images. 2D graphics are supported and fonts, symbol shapes, colour schemes and how individual elements are animated can be defined
- table view is used to display a structured summary of immediate values. The appearance and behaviour of table rows, columns and cells depending on displayed values can be defined
- analogous to a table of immediate values is a list of historical data (usually the result of an SQL query)
- graphs are used to display how one or more quantities vary over time, and allow effective comparison of trends, monitoring of dependencies and searching for extremes and anomalies. For these activities, the graphs in TechSight are equipped with a broad range of interactive tools. The basic appearance of graph axes, lines and grids can be defined
- changes in monitored parameters are displayed practically immediately thanks to Twister server-side SW technologies and efficient communication protocols
- advanced technology using an SQL database for long-term archiving (LTA) and access to data through local preprocessing permits quick response to queries

- in addition to displaying values, all configurations also support basic types of interaction with the system: entering quantity values and limits, acknowledging alarms, issuing commands, or entering set points
- full support for the Twister platform and the ability to work with a large number of servers allows integration of supervision of extensive decentralized systems

→ Properties

- detail can be depicted perfectly over a broad range of smooth zooming thanks to a hardware-accelerated graphics engine with anti-aliasing support
- through the use of application and user profiles, the appearance of reports can be even better adapted to the requirements of individual users
- TechSight can be operated on the following operating systems: MS Windows XP, MS Windows Vista, MS Windows 7, Windows 8, Windows 10 (32-bit and 64-bit) and Linux (32-bit and 64-bit)
- in cooperation with servers in Windows, it supports Active Directory
- ClickOnce technology provides automatic product updates under Windows. TECHSYS uses a VeriSign certificate to authenticate its products
- TechSight is entirely a TECHSYS product, making it easy to add custom functions

→ Designer

As an option, the product comes with Designer, an integrated comprehensive development environment that provides full control over the appearance of all screen types and supports individualization of application appearance down to the level of elementary components. But support for application completion is much broader. It allows one to define a server arrangement and connect drawn sets to their data points. Important functions include screen animation (controlling behaviour by manually entering quantity values) and screen simulation (verifying a screen is correct compared to a live server before it is offered to the user).