

Yokogawa's FAST/TOOLS SCADA software is designed to run on various different types of Operation System (OS), and thus capable to provide unified client-server operation on one SCADA architecture. FAST/TOOLS can offer UNIX on the SCADA Host Server for data acquisition and storage, and Windows on the SCADA Operator Station for HMI and Engineering functions. with the requirements from our users and leading industry.



white paper

UNIX and Windows

This gives us the advantage to harness the strong points of two different OS and also reduce the weak points by phasing them out of the system configuration. The total solution becomes therefore more reliable and more stable. This gives a higher uptime of the total SCADA system.

Also common errors in the software are reduced to zero. Errors in the Windows environment on the Operation Station will be limited to the SCADA HMI and Engineering functions only. In the event of Windows OS crash on the Operator Station, data acquisition and storage are not affected on the SCADA Host Server running on UNIX environment. FAST/TOOLS is developed based on modular structure and operates independently on the two OS environments.

Patches or "service packs" for the OS are also independent from each other. Upgrading the OS is

always risky and re-booting the system is necessary most of the time. With UNIX, patch or upgrade is required on a less frequency basis than in the Windows environment. This limits the risk of the critical data loss on the UNIX Server.

For the engineering of the system, FAST/TOOLS provides one uniform, easy-to-use interface for configuring the databases, on both the Windows as well as the UNIX environment.

UNIX host server

FAST/TOOLS FAST/TOOLS has been developed on several commercially available UNIX platforms, such as HP-UX, IBM-AIX and SUN Solaris. It is well proven that UNIX offers a very stable operating environment, which has been running for many years on many critical systems, in the financial, military and research sectors. Together with FAST/TOOLS, which is developed

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Since 1978 and proven on many critical processes (i.e. Oil & Gas, Water and Waste Water, Utility, Infrastructure) for more than 20 years, we can offer the most reliable solution to customer

In addition, the inherently design on UNIX makes it easy to tune the server, to run the essential processes for SCADA functions only. All other features not required can be deleted from the server, to keep the system performance and reliability at its optimum.



Also UNIX is full multitasking. FAST/TOOLS under UNIX is designed around a collection of programs, forming the total suite of FAST/TOOLS modules. All those modules can run on a multitasking environment.

Windows workstation

The easy to use interface from Windows, make it easy for the operators and engineers to access the system. Also the Commercially-off-the-Shelf (COTS) hardware makes it easy to add extra workstation or upgrade the workstations, at the lowest possible cost.

Other advantages of Windows as workstation is:

- easy interface which Microsoft Office environment;
- powerful web browser functions;
- most people are familiar with Windows;