

Security: BroadWin WebAccess

WebAccess is the first fully Web browser-based software package for HMI/SCADA.

Using a standard Web browser, users can view and control automation equipment used in industrial, manufacturing, process and building automation systems. Data is displayed to users in real-time with dynamically updated graphics using full-motion animation.

Security considerations

This is a brief overview of Security considerations for a Web Access project (or any HMI and SCADA project).

WebAccess Security and Passwords

provide security beyond Windows Security. Users must "login" with a WebAccess username and password to connect to the system.

WebAccess User Accounts can limit which displays and tags a user can view. WebAccess User accounts are independent of Windows Security.

WebAccess Area & Level Security

restrict which tags a user can change. In order to change the value of a tag, the User's Area must match the Area of the Tag. The user's Level must match or exceed the Level to the tag.

Windows Integrated Security can restrict access to your Web Browser to only those users recognized by Windows security. A user name and encrypted password are required to connect to the web sever (project node) to find the address of the SCADA node(s). This provides security similar to a company intranet.

VPN (Virtual Private Networks)

construct a private network that "tunnels" through the Internet (the most secure).

Firewalls protect your system from the outside. Two TCP ports are required for WebAccess. Any user- defined ports can be used.

Anonymous Access can allow everyone to connect to your web server and is recommended only for users of large campuses with hundreds of users.

Only the Project Node is a Web Server.

SCADA nodes are not Web Servers. The SCADA nodes connect directly to your automation system. An initial connection to the Project Node (Web Server) downloads a "deploy file" that directs clients to the SCADA node.

WebAccess User Accounts

Restricted Users are limited to the graphic displays assigned to them.

General Users can view all user-built graphic displays. They can not view System Displays, use DRAW or the Project Manager.

Power Users can view all System Displays (e.g. communications status, action log, alarm log) and all user-built graphics.

Project Users can use DRAW and the Project Manager to configure tags, create users, download, start and stop nodes.

User Managers can add and modify other View Users (i.e. add and modify Power, General and Restricted Users).

Admin is the administrator account that has capabilities of a Power User and Project User combined.

User accounts are assigned to individual SCADA nodes and can have different privileges on different nodes. Both the full-animation Client and the Thin Client limit user access.

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