

# WebAccess / CNC

## CNC Machine Networking Solution



### Features

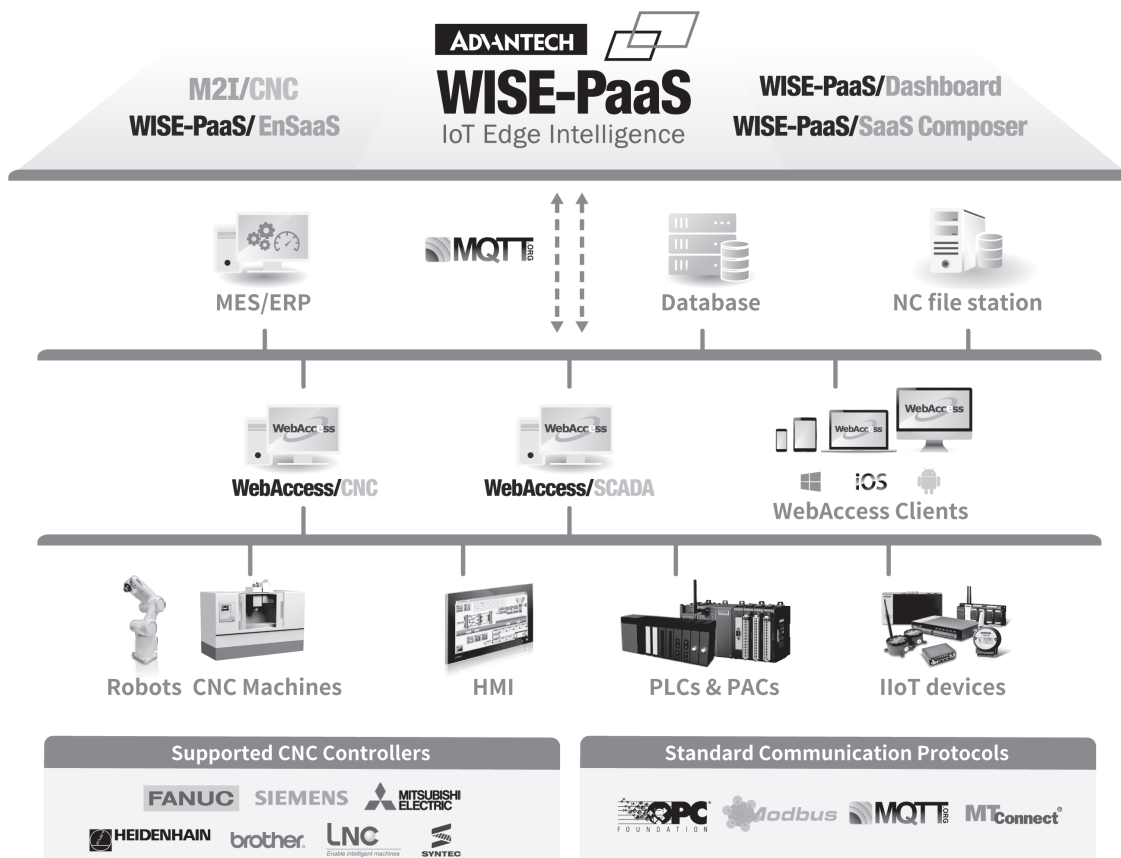
- Automatically generates CNC projects for WebAccess/SCADA software
- Supports CNC machine and I/O device monitoring
- Supports leading CNC network controllers
- Provides CNC machining status and PLC register monitoring
- Provides CNC availability queries and NC file transfer function
- Provides historical CNC alarm and operation queries
- Supports all features and full functions of WebAccess/SCADA software

### Introduction

Advantech WebAccess/CNC is a core software solution for networking CNC machines. Leveraging the 100% web-based architecture of the WebAccess/SCADA platform, WebAccess/CNC provides not only crucial CNC networking functions, but also the benefits of SCADA software for CNC machining. With the inclusion of I/O device monitoring capabilities, WebAccess/CNC enables CNC information management and status visualization.

Internet Explorer can be used to browse SCADA web pages and monitor/capture real-time CNC and production status data to improve efficiency and analyze device availability. Designed specifically for the machine tool market, WebAccess/CNC is integrated with numerous SCADA drivers and can support a wide range of CNC, I/O, and PLC devices to facilitate equipment data collection and industrial networking application development.

### Software Architecture



## Software Specification

### Supported CNC Controllers

- **FANUC** Oi-A/B/C/D/F, 16i, 18i, 21i, 31i, 32i (FOCAS library is required)
- **MITSUBISHI** M700/M70, M800/M80 series
- **HEIDENHAIN** iTNC530, iTNC640 (DNC option is required)  
(The number of connections to Heidenhain is limited to 16 for each WebAccess/CNC runtime instance)
- **SIEMENS** 840D, 828D (OPC UA license is required)
- **LNC (free)** M/T 2800/2900/5800/6800/6900/7900
- **BROTHER** CNC-B00: TC-22B/31B/32BN/S2D/R2B/20B/S2DN  
CNC-C00: S300X1/S500X1/S700X1  
S1000X1/S500Z1/S700Z1  
M140X1/M140X2  
R450X1/R650X1/R450Z1
- **SYNTEC** Support controllers with software (V10.116.36 or later) and CloudAgent (SYNTEC OPC UA server) (V2.10.0 or later)

WebAccess/CNC has two types of license key:

- Standard license (through CNC runtime)
- Economical license (using a CNC driver)

The standard license key supports various CNC types (FANUC, MITSUBISHI, SIEMENS and HEIDENHAIN). The economical license supports drivers as LNC Recon library, BROTHER, SYNTEC (OPC UA) and FANUC FOCAS library.

### Open Connectivity

- **OPC DA/UA Server/Client** Yes
- **Modbus Server** Yes
- **BACnet Server** Yes
- **DDE Server** Yes

### Open Interface

- **Windows API** Yes
- **RESTful API** Yes
- **SignalR** Yes

### Web-enabled Integration

- **Video** Yes
- **Google Maps and GPS Location Tracking** Yes

### Report

- **Web-Based Report** Yes
- **Excel Report** Yes
- **Send Email by PDF or Excel** Yes

### Others

- **Database** SQL Server/Oracle/MySQL/PostgreSQL/Microsoft Access
- **Script Language** TclScript/VBScript/JScript (can be encrypted)
- **Supports IPv6** Yes
- **WebAccess APP** Yes
- **Electronic Signature** Yes, conforms to 21 CFR Part 11
- **Scheduler** Yes
- **Receipt** Yes

## Ordering Information

### Standard License Key (CNC runtime for FANUC, MITSUBISHI, HEIDENHAIN and SIEMENS)

- **WA-CNC-U001E** 75 I/O tags, 1 CNC connection for CNC runtime
- **WA-CNC-U005E** 75 I/O tags, 5 CNC connection for CNC runtime
- **WA-CNC-U010E** 75 I/O tags, 10 CNC connection for CNC runtime
- **WA-CNC-U020E** 75 I/O tags, 20 CNC connection for CNC runtime
- **WA-CNC-X005E** No I/O tags, 5 CNC connection (upgrade) for CNC runtime
- **WA-CNC-X010E** No I/O tags, 10 CNC connection (upgrade) for CNC runtime

### Economical License Key (CNC driver for FANUC, BROTHER, SYNTEC and LNC)

- **WA-BRO-U001E** 75 I/O tags, 1 CNC connection for CNC driver
- **WA-BRO-U005E** 75 I/O tags, 5 CNC connection for CNC driver
- **WA-BRO-U025E** 75 I/O tags, 25 CNC connection for CNC driver
- **WA-BRO-U050E** 75 I/O tags, 50 CNC connection for CNC driver
- **WA-BRO-X001E** No I/O tags, 1 CNC connection (upgrade) for CNC driver
- **WA-BRO-X005E** No I/O tags, 5 CNC connection (upgrade) for CNC driver
- **WA-BRO-X025E** No I/O tags, 25 CNC connection (upgrade) for CNC driver

(The connection tags of CNC runtime and driver are not counted in the license tags calculation)

### I/O Tag Upgrades

- **WA-X83-U075E** 75 tags (upgrade)
- **WA-X83-U300E** 300 tags (upgrade)
- **WA-X83-U600E** 600 tags (upgrade)
- **WA-X83-U15HE** 1,500 tags (upgrade)
- **WA-X83-U50HE** 5,000 tags (upgrade)

## Minimum Requirement

### SCADA Software

- Advantech WebAccess V8.3.3 Professional or later

### Project Node\SCADA Node

- **Operating System** Windows 7 SP1 Professional  
Windows 8.1 Professional  
Windows Server 2008R2 or later  
Windows 10 (not support Home or Home Premium)  
.NET Framework 3.5 for WebAccess/CNC runtime  
.NET Framework 4.5 or later version  
IIS 7.5
- **Hardware** Recommended: Intel Atom® or Celeron® Dual-Core processor  
4 GB RAM  
200 GB disk space
- **USB** USB port for License Hardkey on SCADA node
- **Browser Resolution** 1280 x 720 to 1920 x 1080
- **Browser Support** IE Explore 11 or later

### Dashboard Viewer

- **Hardware** **PC:** Intel® Core™ i3 with 4 GB RAM  
**iPhone:** iPhone 5  
**Android:** 1.5 GHz quad-core with 2 GB RAM  
**Windows Phone:** 1.5 GHz quad-core with 2 GB RAM
- **Browser** **Internet Explorer:** IE 11  
**Chrome:** Version 37  
**Firefox:** Version 31  
**Safari:** Version 7

### WebAccess APP

- **Platform Environment** iOS 9 and Android 4.4