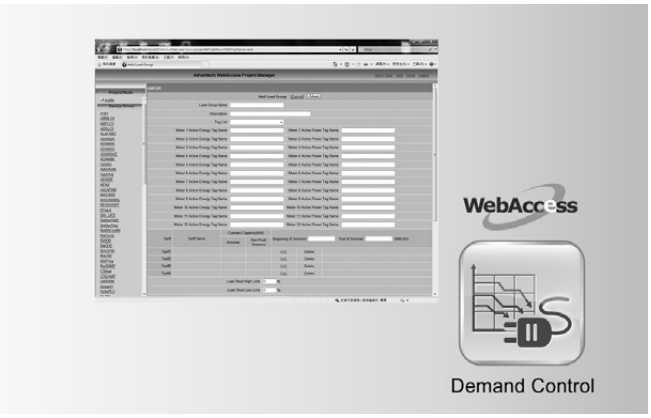
Advantech WebAccess Options - Demand Control Real-Time Database



Demand Control

Features

- Monitor power consumptions and project demand in next demand interval
- Shed the load if consumption approaches warning level
- Release the load when the demand is satisfied
- Two operating modes: Control and monitor only modes
- 6 Priority levels for shedding load group
- Supports minimum release time, minimum shed time and maximum shed time
- Sliding Windows algorithm for projection

Introduction

The Advantech WebAccess Demand Control feature helps users save money by limiting the energy usage when the system's demand approaches a predefined warning level. The WebAccess Demand Control System continuously monitors the system's power consumption and projects the demand for the next demand interval. If the projected demand approaches a predefined limit, usually the peak contract demand, the system selectively turns off equipment like lights and fans, adjusts analog set- point to reduce the power consumption or prompts a text message to remind the user to save energy.

Feature Details

Control Mode and Monitor Only Mode

In "Control Mode", the DC program sheds/reloads the load to manage the energy consumption. "Monitor Only" mode evaluates the power consumption and simulates the shed operation, but it does not send the control signal to the devices. Monitor mode allows users to test and verify their system.

Define up to 99 Control Groups

In WebAccess Demand Control, users can define up to 99 control groups. In each group, users can define control strategy to limit peak energy usage.

Release and Shed the Load

By monitoring total energy consumption readings from meters using a sliding-window algorithm the DC program sheds loads as needed to ensure the projected demand does not exceed a specified tariff target. The shedding process is based on user-defined prioritized load groups.

Minimum Release Time

Minimum shed time and maximum shed time are applied to decide the shed and procedure release.

System Requirements

- **OS** Microsoft® Windows® XP, XP Embedded, Windows 7, Windows 7 Embedded, Windows 8 Desktop Mode, or Windows CE
- **Software Requirements** WebAccess V7.1 Professional

Ordering Information

- **WA-P71-DCTRLE** WebAccess Professional Option Demand Control

Real-Time Database

Features

- Super fast data access and storage
- Supports redundancy for WebAccess
- Fully integrated with WebAccess
- Built-in with WebAccess, no extra installation required
- Archive and delete obsolete data with automatic maintenance schedules
- API for 3rd party programs to Read/ Write/ Modify

Introduction

The Advantech WebAccess Real-Time Database (RTDB) feature allows WebAccess to store and retrieve a large amount of data in real-time.

Feature Details

High Speed and Large Quantity Data Access

Unlike generic relational databases, WebAccess RTDB is designed to meet industrial high speed and large quantity data access requirements.

Fully Integrated with WebAccess

With the fully integrated design, users do not need to learn how to operate the database. Just by enabling the usage of RTDB in WebAccess configuration page, WebAccess SCADA node can then take advantage of this high performance data base. Data from sensors, I/O devices, and RTU or PLC registers are collected by WebAccess and stored to RTDB in very high speed while other users can view or retrieve those data in WebAccess View simultaneously.

Support Redundancy for WebAccess

With special data compression and access algorithms, WebAccess RTDB can serve data at a rate of millions of records per second. WebAccess database maintenance features automatically archive and delete obsolete data.

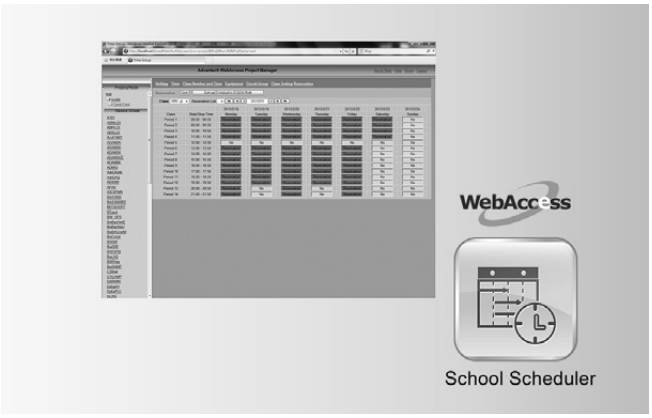
System Requirements

- **OS** Microsoft® Windows® XP, XP Embedded, Windows 7, Windows 7 Embedded, Windows 8 Desktop Mode, or Windows CE
- **Software Requirements** WebAccess V7.1 Professional

Ordering Information

- **WA-P71-DB50HE** WebAccess Professional Option RTDB 5,000
- **WA-P71-DB64KE** WebAccess Professional Option RTDB 64,000

Advantech WebAccess Options - Alarm Management System School Scheduler



Alarm Management System

Features

- Advanced alarm notification management
- Prioritized audio announcement
- Notification group by schedule
- Link multiple receiver group to alarm group

Introduction

WebAccess advanced Alarm Management System (AMS) delivers alarm messages via SMS, email or audio announcement to multiple receivers by predefined alarm group, user group, time schedule and priority setting.

Feature Details

Advanced Alarm Notification Management

In WebAccess Advanced AMS, the system administrator creates, defines, and groups alarms by their characteristics. The administrator also defines users and specifies notification methods, SMS or email information. Users are grouped into work group by time schedule and associated with alarm groups.

Create Notification Group by Schedule

When any tag goes into alarm state, AMS finds out the alarm group it belongs to and the work group corresponding to shift schedule it associates with and notify users, whose priority is lower than the alarm's priority, in the work group with predefined SMS or Email.

Prioritized Audio Announcement

It also checks the alarm with the highest priority, repeatedly plays audio announcement until it is acknowledged.

System Requirements

- **OS** Microsoft® Windows® XP, XP Embedded, Windows 7, Windows 7 Embedded, Windows 8 Desktop Mode, or Windows CE
- **Software Requirements** WebAccess V7.1 Professional

Ordering Information

- **WA-P71-AMGNTE** WebAccess Professional Option Alarm management system

School Scheduler

Features

- Set the Setpoints to control lights and equipments
- Classroom Time Periods of the day
- Holiday Schedules
- Reservation function to set the equipment

Introduction

WebAccess School Scheduler provides on/off control and setpoint changes based on time-of-day, day of week and the calendar. Users can control lights, temperature and equipment for saving energy during school days. WebAccess School Scheduler allows the definition of up to 17 periods per day and preserved function for setpoint.

Feature Details

"On/Off" and Setpoint Changes

The "On/Off" can schedule different periods to set the Setpoint, and the Setpoint will follow the schedule setting for saving energy. The "On/Off" also has values specified for each Tag to schedule the Setpoint.

Flexible Periods of the day

The Time specifies the Start Time and Stop Time for each period of the day, up to 17 periods, 16 default periods and one undefined period. Users can follow the school time schedule to set the Setpoint. WebAccess School Scheduler also has reserved function to reserve schedule for Setpoint.

Holiday Schedule

Holiday schedule is defined to handle exceptions to the 7 days per week schedule. The Holiday is any unusual event or series of events. The Holiday Schedule can be defined, redefined and assigned at any time, but usually is defined first to allow easy assignment to the Time Schedules as the "exception" to the schedule.

System Requirements

- **OS** Microsoft® Windows® XP, XP Embedded, Windows 7, Windows 7 Embedded, Windows 8 Desktop Mode, or Windows CE
- **Software Requirements** WebAccess V7.1 Professional

Ordering Information

- **WA-P71-SSCHLE** WebAccess Professional Option School Scheduler