



ScadaPhone V6.3.21
Datasheet
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ScadaPhone

The Most Reliable Alarm & Event Reporting Software

ScadaPhone is a Windows application which obtains real-time data from any OPC-DA compliant SCADA server and reports alarm conditions to a list of operators via a variety of methods (e.g. audio announcements via PBX or telephone, text notifications via cellular SMS, email or alphanumeric pagers).

In addition to making outgoing alarm announcements, ScadaPhone hosts a fully-configurable and password-protected voice-audio menu system which operations staff can access at any time via standard telephone call.

*ScadaPhone also implements a **web-server interface** which allows authorized users to interact with ScadaPhone via any smartphone, tablet, laptop or desktop computer having a standard web browser (via internet or private network).*

From either the telephone-audio or web-server interface, authorized users can login to monitor and acknowledge alarms as well as monitor and modify non-alarm operating values (e.g. enable bits, status bit, analog levels, set-points, etc.).

FEATURES & CAPABILITIES

Flexible Alarm Announcements:

ScadaPhone can report alarms using a variety of methods:

- **Text-based notifications** via Cellular SMS, SMTP Email (plain-text or HTML), and legacy Pager Protocols (i.e. TAP or SNPP).
- **Local audio announcement** via analog voice modem or PC soundcard to speaker or PBX.

Password Protected Security:

ScadaPhone allows the System Administrator to assign one of five access levels to each user:

- Supervisor Access
- Schedule Change Access
- Data Entry Access
- Alarm Acknowledgement Access
- Limited Access (view only)

Alarm Grouping:

Each alarm defined in ScadaPhone has an attribute that associates that alarm to an alarm group. Contact lists and reporting actions can be configured differently for each alarm group.

Groupwise Activity / Contact Scheduling:

ScadaPhone implements a powerful yet easy to use **Scheduler** to specify what action is to be taken when an alarm is triggered and to which contact(s) the alarm is to be reported. Each **Alarm Group** has its own **Contact Sequence** and set of **Contact Availability** schedules.

Contact Schedules specify default days of the week that a contact is normally available. Specific holiday or vacation-day schedules can be created to override the daily default schedules (up to one year in advance). An optional **Contact Rotation Scheduler** can be configured for automatic (cyclic) rotation of call-out sequencing and duty intervals.



ScadaLink Interface:

ScadaPhone retrieves data from various SCADA servers via OPC-DA, OLE or DDE communications. SCADA communications is setup by either selecting an OPC-DA server from a list of installed (or well-known) servers, or manually entering connection information for DDE connections. In run mode, all ScadaLink tags are continuously polled at a specified rate.

WebServer Interface:

ScadaPhone implements an **HTTP Server** interface which allows authorized users to remotely:

- View and acknowledge active alarms
- View ScadaPhone alarm and event logs
- View and modify process variables (such as Discrete bits or Analog Setpoints)
- Make Scheduling changes.

TCP/IP Connectivity:

Using ScadaTEC's **Tag Transfer Protocol (TTP)**, ScadaPhone can retrieve alarm data from multiple SCADA Nodes over a TCP/IP network when used in conjunction with one of ScadaTEC's TTP servers, such as OPCHub, CIPTagServer or Modbus Tag Server, running on the remote computer.

Watchdog Features:

ScadaPhone has numerous features that provide means of detecting abnormal system conditions such as computer lock ups, communication failures, and equipment failures. These features provide extra layers of reliability and assurance that critical alarms will not go unreported.

Extensive Event Logging:

ScadaPhone maintains numerous logs to document system activity such as Alarm history, Call history, Modem commands, Operator actions, SCADA polling quality, memory and CPU usage, etc.

Alarm History Reports:

Using data from the **Alarm History Log**. Plain-text, HTML or RTF **Alarm Reports** can be manually generated (for a desired time-span) or automatically generated (on a pre-selected-interval basis) from the Alarm History Log data.

User Defined Menus:

Each project is initialized with a preconfigured set of menus, which can be modified. The User can create custom menus.

Built-in Math & Logic Capability:

Using ScadaPhone's built in math & logic capabilities, computed tags can be derived from expressions using analog, discrete, and string values obtained from the SCADA software. Expressions can be constructed from the following:

- Arithmetic operators: +, -, /, *, DIV, MOD
- Relational operators: <, <=, =, <>, >=, >
- Logic operators: NOT, AND, OR, XOR, XNOR
- Analog Functions: SIN, COS, LN, SQRT, ABS, TRUNC, FRAC, ROUND
- Parenthesis are supported to control the order of operations within complex expressions.

Redundancy:

ScadaPhone has built-in support for redundancy. In a redundant configuration, a secondary instance of ScadaPhone (running in standby mode) monitors the viability of the primary instance of ScadaPhone; if the primary goes offline or is otherwise deemed to be non-viable, the secondary assumes the mastership role until the specified primary becomes viable again.

Bi-directional SCADA Acknowledgement:

ScadaPhone can be configured to read and write alarm acknowledgement status bits to and from your SCADA software. This ensures that an alarm acknowledged from the SCADA console will also be acknowledged in ScadaPhone and vice-versa

Alarm and Tag Browsers

When using OPC or OLE to poll a SCADA software, ScadaPhone can browse the SCADA Software for tags (datapoints). The user can then select which tags are to be incorporated into a polling list.



LICENSING

ScadaPhone Software Licensing:

ScadaPhone is Available in 3 Licensing Levels:

- ScadaPhone Unlimited
- ScadaPhone 200 (maximum of 200 alarm tags)
- ScadaPhone Lite (maximum of 32 alarmtags)

All licensing levels offer full functionality of ScadaPhone.

For evaluation and testing purposes, ScadaPhone functions without limitation for up to one hour without a proper authorization code. Once ScadaPhone is purchased, an authorization code is used to unlock ScadaPhone for continuous use. This authorization can be transferred from one machine to another.

SPECIFICATIONS

System Requirements:

PC or Server based system running Microsoft Windows operating systems from Windows 7 through Windows 10 and Windows Server 2008 through Server 2019.

Typically, ScadaPhone with a large project uses approximately 100MB of RAM and 100 megabytes of hard disk space.

Software:

All ScadaPhone program files and the library are installed in one directory. User can define the project folder location. Multiple project folders are supported. One executive program has both the Development and the Runtime modes.

Hardware:

ScadaPhone uses a voice/data/fax modem to send voice alarm messages. Cellular modem or Cellular Gateway Router is used to send SMS messages. ScadaPhone can also use any internal sound card for both the recording and playback of standard WAV audio files and provides local alarm.

Warranty:

ScadaPhone comes with a one year warranty against software bugs or defects. Extended warranty plans are available. Updated versions of ScadaPhone can be downloaded and installed at no charge during the warranty period.

Technical Support:

Unlimited support is available during the warranty period via telephone or e-mail.

Software License:

For evaluation and testing purposes, ScadaPhone functions without limitation for up to one hour without a proper authorization code. Once ScadaPhone is purchased, an authorization code is used to unlock ScadaPhone for continuous use. This authorization can be transferred from one machine to another without limit.

WAV Audio:

ScadaPhone records and plays WAV audio files at 8000 samples per second, 16 bits per sample, 1 channel (mono).



Software License:

For evaluation and testing purposes, ScadaPhone functions without limitation for up to one hour without a proper authorization code. Once ScadaPhone is purchased, an authorization code is used to unlock ScadaPhone for continuous use. This authorization can be transferred from one machine to another.

WAV Audio:

ScadaPhone records and plays WAV audio files at 8000 samples per second, 16 bits per sample, 1 channel (mono).

Data Points:

There is no limitation on the number of active tags (data points) that can be polled by ScadaPhone.

Alarms:

There is no limitation to the number of alarms that can be reported with ScadaPhone Unlimited.

ScadaPhone 200 is limited to 200 alarms.

ScadaPhone Lite is limited to 32 alarms.

Alarm Groups:

Alarms can be grouped. Each group has its own Scheduler.

There is no limit to the number of alarm groups that can be defined in each ScadaPhone project.

Contacts:

There is no limit to the number of alarm contacts in a ScadaPhone call list. Each alarm contact has a unique password.

Contact Types:

ScadaPhone can be configured to report voice alarms via analog telephone lines, SMS text messages using cellular modems, voice mail, numeric pagers, alphanumeric pagers, and email.

Users:

There is no limit to the number of users that can be assigned passwords to access the protected features of ScadaPhone.

Menus:

There is no limit to the number of user defined menus that can be configured in ScadaPhone.

Please note that specifications and features may change without notice.

Download a trial version of ScadaPhone and additional application information from our web site at:

www.scadatec.com