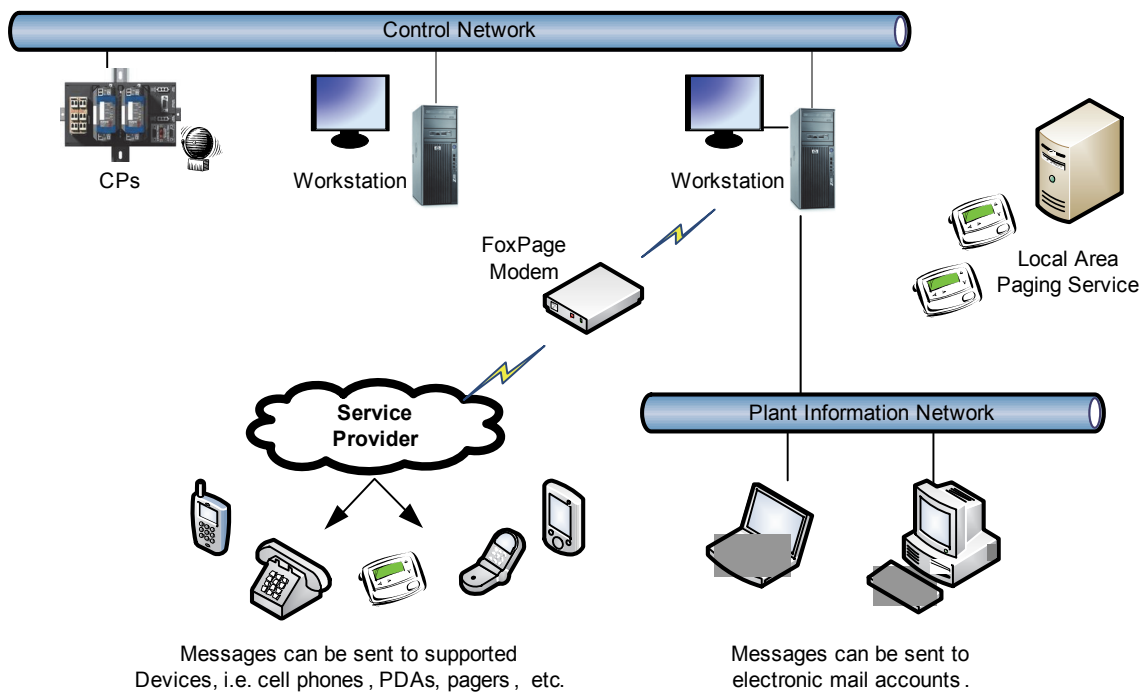


FoxPage and Event Driven Scripts Software



OVERVIEW

The FoxPage product provides electronic messaging services for pre-defined system events such as Process Alarms, System Monitor Messages and Operator Action Journal messages for workstations. The FoxPage product contains the Event Driven Scripts software to define the alarms/messages that require external notification to an electronic messaging device. Utilizing synthesized speech technology, the FoxPage product facilitates annunciation of alarms/message in English via telephone or over plant radio or public address systems.

The Event Driven Script (EDS) software uses filter files to identify which alarms/messages to forward and identifies the command to execute. In the case of the

FoxPage product, the filter files identifies the events and builds the user-defined messages to send to the electronic messaging devices.

User-defined messages can be tailored to include compound names, block names, block descriptions, and so forth.

The Event Driven Scripts software, which is part of the FoxPage product, can be sold separately and used in conjunction with customer provided applications, such as:

- ▶ Record selected alarm messages to an ASCII file for review at a later time.
- ▶ Automatically start applications upon predefined events, for example a plant upset.
- ▶ Trigger audio-play prerecorded voice files.

BENEFITS

Since the FoxPage product can be configured to trigger electronic messaging for the specified events automatically, operators are free to move away from the control room. When combined with wireless workstations, the FoxPage product eliminates the need for a central control room for many customers.

The Event Driven Scripts software allows the user to invoke any application when specified events occur within the control system. Applications might include data transfer to Manufacturing Executions Systems (MES) software or voice annunciation of alarms.

FUNCTIONALITY

The FoxPage product provides an interface between the control system alarm messages and a third-party electronic messaging software package. The following is the sequence of events that take place when the FoxPage product is configured on a workstation and an alarm is triggered.

- 1** The Alarm Receiver receives a message.
- 2** The Alarm Receiver then relays message to its intended destination.
 - In the case of a process alarm this would be the control system.
 - In the case of System Monitor or Operator Action Journal messages, this would be the respective Historian(s).
- 3** The Alarm Receiver identifies the specified alarm type and reads the corresponding filter definition file.
- 4** If the received message satisfies the filter file criteria, the Alarm Receiver bundles the information and the command to be executed, into a script file for the Alarm Dispatcher to process.
 - In the case of FoxPage, this command would be a paging command.
- In the case of EDS, this command would be a user-specified command.
- 5** The Alarm Dispatcher processes the message and executes the script file created by the Alarm Receiver.
- 6** The electronic messaging software receives instructions to send the defined message to the appropriate device.

COMPONENTS

The FoxPage product consists of the following software modules.

- ▶ Event Driven Scripts Software
 - Alarm Receiver - This component of the FoxPage/EDS software collects, filters and handles selected control system alarms.
 - Alarm Dispatcher - This component of the FoxPage/EDS software dispatches the temporary files created by Alarm Receiver.
- ▶ FoxPage Specific Applications
 - pgmate_ifc – The FoxPage interface module that provides the link between the Event Driven Script software and the electronic messaging software.
 - Electronic Messaging Software - The third-party electronic messaging software that actually controls the dispatching of electronic messages.

MESSAGE TYPES

The FoxPage/EDS software supports three control message types: Process Alarms (alarms, SOE, and Sequence blocks), System Monitor, and Operator Action Journal.

NOTE

The FoxPage/EDS software does not handle messages processed by the Message Manager or messages from Archestra Application Objects.

Process Messages

Process messages (alarms, SOE, and Sequence blocks) are redirected to FoxPage/EDS by modifying the compound's alarm destination group parameters.

Process messages filter criteria are: alarm type, source, alarm condition, alarm priority, and the date/time of occurrence.

System Monitor Messages

System Monitor messages are redirected to FoxPage/EDS via FoxPage/EDS installation options which modify the destact.cfg file. The original Historian-logging capability is not lost because the Alarm Receiver relays the received messages to the originally designated Historian.

System Monitor messages filter criteria are: System Monitor names, station names, date/time of occurrence, subsystem error codes, and system monitor messages.

Operator Action Journal Messages

Operator Action Journal (OAJ) messages are redirected to FoxPage/EDS via FoxPage/EDS installation options which modify the wp51_globals.all file. The original Historian-logging capability is not lost because the Alarm Receiver relays the received messages to the originally designated Historian.

OAJ messages filter criteria are: action types,

compound:block, display manager name, OAJ description and the date/time of occurrence.

PART NUMBERS

The following table identifies the various part numbers for the FoxPage package and Event Driven Scripts product.

Q0301JH – FoxPage

- ▶ *FoxPage and Event Driven Scripts Installation and Operation Guide* and FoxPage/EDS installation media.
- ▶ The electronic messaging software manual, license, installation media and Annual Maintenance Agreement.

Q0303AA – FoxPage with Voice Support

- ▶ *FoxPage and Event Driven Scripts Installation and Operation Guide* and FoxPage/EDS installation media.
- ▶ The electronic messaging software manual, license, installation media and Annual Maintenance Agreement.
- ▶ Dialogic media board.

Q0301JJ – Event Driven Scripts

- ▶ *FoxPage and Event Driven Scripts Installation and Operation Guide* and FoxPage/EDS installation media.

REQUIREMENTS

Supported Software Versions

FoxPage/EDS currently supports the following software versions:

- ▶ v8.1.1 - v8.4.x Standard I/A Series software.
- ▶ v8.5 - v8.8 Standard or Security Enhanced I/A Series software with default domain group policies.
- ▶ v9.0 and later Standard or Security Enhanced Foxboro Evo Control Core Services software with default domain group policies.

NOTE

When using security enhanced software please be aware that changing the Invensys provided default domain group policies or improperly using McAfee® ePolicy Orchestrator (ePO) firewall can adversely affect the proper operation of the FoxPage. Modifying Active Directory Group Policies is considered an advanced action and should only be undertaken by qualified personnel. Use of any firewall, including the Invensys authorized McAfee ePO firewall could also adversely affect the functionality of the FoxPage if not configured properly.

Hardware

Depending on the FoxPage configuration, at least one of the following hardware requirements must be met:

- ▶ If serial communication will be used (e.g. external paging service or in-plant paging system), a serial port is required. If the serial ports are configured in the system definition, then an appropriate serial expansion card must be purchased.
- ▶ If LAN communication will be used (e.g. e-mail messages, PDA, Blackberry, etc.), then the workstation must have Internet access available.
- ▶ The voice support option requires a workstation running a Windows® Server 2003 or Windows Server 2008 R2 Standard operating system with an available PCI slot for the installation of the Intel® Dialogic® media board.

Services

Installation is not included. Local area paging systems require application engineering or field service support, which must be quoted separately.

DISCLAIMER

Invensys Systems, Inc. is not responsible for any loss or damages resulting from improper use and/or failures of paging services. The user agrees to configure proper security measures and indemnify and hold Invensys Systems, Inc. harmless from any claims arising from improper use of the FoxPage software.

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