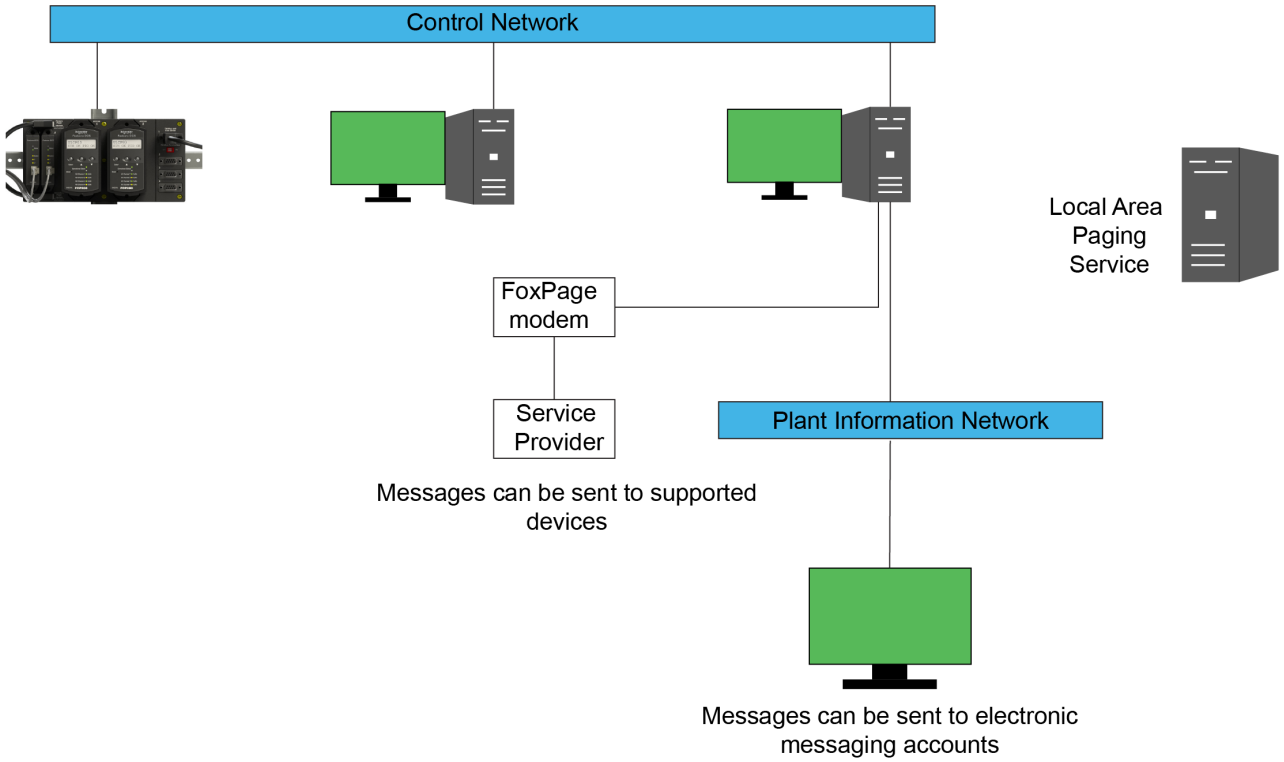
Foxboro™ DCS

FoxPage and Event Driven Scripts Software

PSS 41S-7PAGE

Product Specification

September 2022



Legal Information

The Schneider Electric brand and any trademarks of Schneider Electric SE and its subsidiaries referred to in this guide are the property of Schneider Electric SE or its subsidiaries. All other brands may be trademarks of their respective owners.

This guide and its content are protected under applicable copyright laws and furnished for informational use only. No part of this guide may be reproduced or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), for any purpose, without the prior written permission of Schneider Electric.

Schneider Electric does not grant any right or license for commercial use of the guide or its content, except for a non-exclusive and personal license to consult it on an "as is" basis. Schneider Electric products and equipment should be installed, operated, serviced, and maintained only by qualified personnel.

As standards, specifications, and designs change from time to time, information contained in this guide may be subject to change without notice.

To the extent permitted by applicable law, no responsibility or liability is assumed by Schneider Electric and its subsidiaries for any errors or omissions in the informational content of this material or consequences arising out of or resulting from the use of the information contained herein.

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. The FoxPage product contains the Event Driven Scripts software to define the alarms/messages that require external notification to an electronic messaging device.

Because FoxPage 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, FoxPage helps eliminate the need for a central control room for many customers.

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

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

The Event Driven Scripts software is available separately. When specified events occur within the control system, the software allows you to apply other applications, such as transferring data to Manufacturing Execution Systems (MES) software, voice annunciating alarms, or recording selected alarm messages to an ASCII file.

Functionality

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

1. The Alarm Receiver receives a message.
2. The Alarm Receiver then relays message to its destination.
    a. In the case of a process alarm this would be the control system.
    b. 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.
    a. In the case of FoxPage, this command would be a send message command.
    b. 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

FoxPage consists of these software modules:

- Event Driven Scripts Software:
  - Alarm Receiver: Component of the FoxPage/EDS software that collects, filters, and handles selected control system alarms.
  - Alarm Dispatcher: Component of the FoxPage/EDS software that dispatches the temporary files created by Alarm Receiver.
- FoxPage Specific Applications:
  - Electronic Messaging Software: Third-party electronic messaging software that controls the dispatching of electronic messages.

Message Types

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

FoxPage/EDS 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 include 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 detected 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_glbls.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.

Requirements

Software

FoxPage/EDS currently supports these software versions:

- v8.8 I/A Series Standard or Security Enhanced software with default domain group policies.
- v9.0 and later EcoStruxure™ Foxboro™ DCS Control Core Services Local Edition or Enterprise Edition software with default domain group policies.

  NOTE: When using Security Enhanced or Enterprise Edition software, changing the default domain group policies or improperly using or configuring a firewall, including the authorized McAfee® ePolicy Orchestrator (ePO) firewall, can adversely affect the operation of the FoxPage/EDS product. Only qualified personnel should modify Active Directory Group Policies and configure firewalls.

Hardware

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

- If serial communication is used (for example, 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 is used (for example, email, SMS, pagers), then the workstation must have Internet access available.

Services

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

Part Numbers

Product	Part Number	Description
FoxPage	Q0301JH	• *FoxPage and Event Driven Scripts Installation and Operation Guide* (B0400AY) and FoxPage/EDS installation media. • The electronic messaging software, license, and priority phone support for one year.
Event Driven Scripts	Q0301JJ	• *FoxPage and Event Driven Scripts Installation and Operation Guide* (B0400AY) and FoxPage/EDS installation media.

Schneider Electric Systems USA, Inc.
70 Mechanic Street
Foxboro, Massachusetts 02035–2040
United States of America

Global Customer Support: https://pasupport.schneider-electric.com

As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

© 2015–2022 Schneider Electric. All rights reserved.

PSS 41S-7PAGE, Rev A