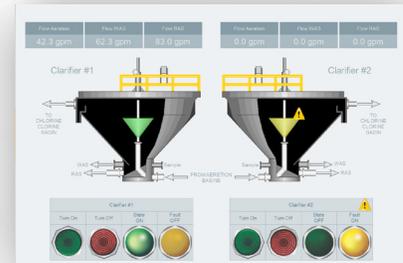
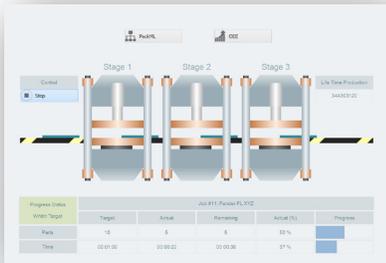


# BLUE Line Management Lite SCADA

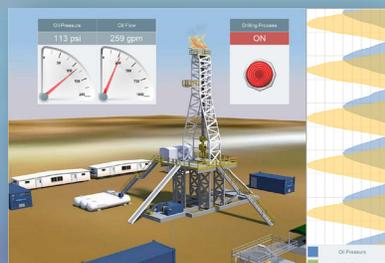
# Open Studio

SCADA/HMI Software for Intuitive Dashboards, OEE, and the Internet of Things.



## NEW in BLUE Open Studio 8.0:

- PS5000 Bundled**  
 Available to be bundled with all Pro-face PS5000 Series Industrial PCs
- Support for Multiple Document Interface on Studio Mobile Access**  
 Access your graphical interface from any device, with groups of screens, popups, and dialogs
- OPC Redundancy**  
 Native redundancy for OPC UA and OPC XML/DA interfaces
- Built-in Tag Integration with PLCs**  
 Comprehensive tag integration with PLCs from Schneider and other manufacturers
- Library of Symbols**  
 Expanded and improved set of symbols for HMI/SCADA applications



# Open Studio Features:

**Alarms:** BLUE Open Studio, 8.0 sends online alarms or reports using multi-media formats like PDF. Alarms are real-time and historical; log data in binary format or to any database. Use remote notification to have alarms sent right to your inbox, printer, or smartphone! Custom Alarm fields allow you to customize up to 10 additional fields to the history of alarms.

**Animation:** BLUE Open Studio gives you great command over graphics in a user friendly and intuitive interface. Paste images, and even rotate dynamically using custom rotation points. Fill bar graphs with color, or adjust the scale of objects with easy-to-use configuration. Other animations include 'command' (for touch, keyboard and mouse interaction), hyperlink, text data link, color, resize, transparency, and position.

**Database:** Connect to any SQL database (Microsoft SQL, MySQL, Sybase, Oracle), or Microsoft Access or Excel, and ERP/ MES systems (including SAP), even from Windows Embedded Compact Edition. BLUE Open Studio is flexible, offering a built in interface that doesn't require knowledge of SQL (for trends, alarms/ events, grid and other objects). BLUE Open Studio has a patented solution that allows for communication with SQL and relational databases running on any supported platform.

**Drivers:** BLUE Open Studio 8.0 provides over 250 native communication drivers for PLCs, temperature controllers, motion controllers, bar code/2D/RFID readers, and many other devices. Use these built in drivers, or connect to an OPC server.

**Email:** Send email or text messages that can be accessed from mobile devices. Get real-time information on alarms, process values, and other events. BLUE Open Studio supports SSL encryption.

**Events:** BLUE Open Studio offers traceability for operator initiated actions or internal system activities. Log events such as security system changes (user logon or off), screen open/ close, recipe/report operations, system warnings, and any tag value changes, including custom messages.

**FDA Traceability:** Take advantage of built-in functionality to create 21 CFR part 11 compliant projects with traceability and e-signatures. These features are often used for pharmaceutical and food applications, but can be used for any application where traceability is a requirement.

**FTP:** Automatically upload or download files during runtime to/from remote storage locations using the FTP protocol and flexible scripting functions. Configure FTP via scripting or the included interface.

**Graphics and Design Tools:** Create screens to meet any application requirement using the tools in our graphic interface. Combine over 1,000 animated objects to create any functionality required. Store graphics in the library for future use, and easily make projects across a product line share a consistent "look and feel".

**Intellectual Property Protection:** Screens, documents, scripts and worksheets can be individually password protected. This prevents unauthorized viewing or editing of your project or application. Protect your intellectual property with just a few mouse clicks.

**Multi-Language:** Develop your application in one of many development languages, including English, Portuguese, German, French, Russian, Chinese Traditional and Simplified, and Spanish, or use translation tools to switch the runtime to any language. BLUE Open Studio offers automatic font replacement based on the language selected.

# Open Studio Features:

**Multi-touch Interface:** Develop applications for devices that feature touch screens. BLUE Open Studio's multi-touch interface allows development for any touch-screen enabled device. Use familiar, modern interface gestures, like pinch zooming and panning. Scroll through alarms using swiping gestures; inertia in the multi-touch interface offers a comfortable user experience. Rotate graphics, dock screens, and take advantage of features like dual-touch command.

**.NET and ActiveX:** Use 3rd party controls to enhance your project. BLUE Open Studio is a container for ActiveX and .NET controls, allowing you to add functionality such as browsers, media players, charting, live streaming from cameras, and other ActiveX or .NET controls.

**OPC:** BLUE Open Studio provides native OPC interfaces, such as OPC DA (Server/Client), OPC HDA(Server), UA (Client) and OPC .NET 3.0 (Client). BLUE Open Studio also supports OPC XML.

**PDF Export:** Send Alarms, Reports, or any file to a production supervisor, quality manager, or maintenance staff using the included PDF writer.

**Recipes:** Save time and maintain consistency by automating part parameters or production quantities with flexible recipe management tools.

**Redundancy:** For critical applications where data is vital, BLUE Open Studio supports web server, database and overall system redundancy to protect your information.

**Reports:** Create clear, concise reports in plain text, RTF, XML, PDF, HTML, and CSV or integrate with Microsoft Office programs such as Excel. Get the data you need, in the format you need it, to make informed decisions, fast. BLUE Open Studio has also partnered with Ocean Data Systems to offer further reporting capabilities through Dream Report for BLUE Open Studio\*.

**Scalable:** Use the same development environment to design and deploy projects to a wide range of platforms, such as WindowsEmbedded, Windows 7, Windows 8, and Server 2012 editions. Limited to 1.5k, 4k or 64k tags.

**Scheduler:** Schedule application behavior triggered by tag changes, date/time, frequency, or any trigger. Use this for simulation, to trigger reports or other functionality at a particular time of day, or even to trigger driver worksheets to read/write at a scan rate you choose.

**Scripting:** Two powerful scripting languages are supported; built-in BLUE Open Studio functions and standard VBScript. Take advantage of widely available resources for VBScript. Both the native BLUE Open Studio scripting language and VBScript can be used simultaneously to give you the functionality you need, even from thin clients. Script debugging tools for the native VBScript editor include break-points, and a variable watch list to improve scripting productivity.

**Security:** BLUE Open Studio includes support for group and user accounts, e-signatures, and traceability. Integrate your project to the Active Directory (Users and Groups).

**Standards:** Take advantage of common industry standards to develop applications that are compatible with any format. TCP/IP, .NET, ActiveX, OPC (client and server), ADO/ODBC, COM/DCOM, OLE, DDE, XML, SOAP, and HTML5 are supported.

**Studio Mobile Access:** Studio Mobile Access, BLUE Open Studio's HTML5 compatible thin client, now offers a multiple document interface that allows you to access your graphical interface from any device with a browser that supports HTML5, such as iPads, iPhones, Android devices, and Windows devices, among others.

# Open Studio Features:

**Symbols:** The included library features push buttons, pilot lights, tanks, sliders, meters, motors, pipes, valves and other common objects. Use the 1,000+ included symbols in your project, modify existing symbols to suit your needs, or create your own from scratch. BLUE Open Studio supports 3rd party symbol libraries and graphic tools.

**Tag Database:** BLUE Open Studio features an object oriented database with boolean, integer, real, strings, arrays, classes (structures), indirect tags and included system tags. Built-in functions allow you to create, delete, or modify the tags database settings during the runtime. This feature increases the flexibility to design generic templates that can be easily customized to each project, even during the runtime. BLUE Open Studio also offers tag integration from a wide range of PLCs, including Schneider Electric.

*\*Additional licenses required.*

*\*Additional Microsoft Team Foundation Server licenses required.*

**Trends:** Real-time and Historical trends, and SPC functionality are supported. Log data in binary format, or to any local or remote SQL database. Color or fill trends with graphic elements to enhance clarity of data. Date/ Time based or numeric (X/Y plot) trends give you the flexibility to display information that best suits your application. BLUE Open Studio supports vertical and horizontal trending.

**Troubleshooting:** Quickly debug and verify a project using local and remote tools for troubleshooting, including status fields, DatabaseSpy and LogWin. Capture screen open and close times, see communications in real-time, messages related to OPC, recipes/reports, security, database errors and even custom messages. Finish your project quickly using these powerful tools.

**XML Screen Toolkit:** Modify or create screens during the runtime, or import screens that you've created.\*

BLUE Open Studio is a comprehensive platform that includes all the tools you'll need to make SCADA and HMI applications that have real power behind them. The development environment allows you to develop once and deploy anywhere. BLUE Open Studio supports all Windows runtime platforms (including 32 and 64 bit), ranging from Windows Embedded Compact, Windows Embedded Standard, Vista, Windows 7, Windows 8, and Windows Server Editions (Server 2008 R2, Server 2012), along with built-in support for local or remote (web) based visualization.

Build powerful graphical displays, and take advantage of the 250+ available communication drivers for all major PLC products. BLUE Open Studio includes OPC UA, OPC.NET and OPC Classic (HDA and DA), trends, alarms, reports, recipes and built-in SQL database support as standard features.

**Pro-face**

by Schneider Electric

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