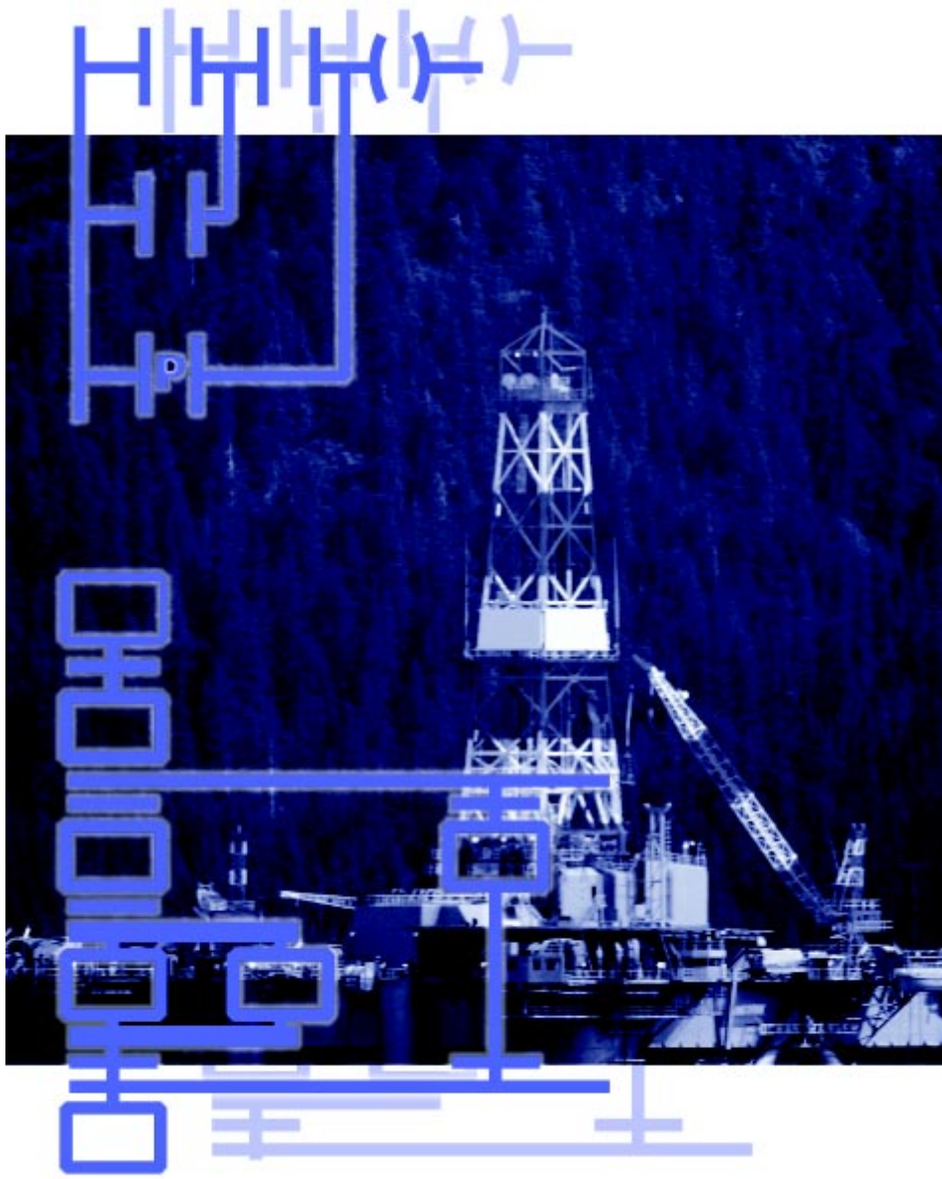
Concept 2.5

High performance IEC 61131-3 development environment to optimize PLC performance



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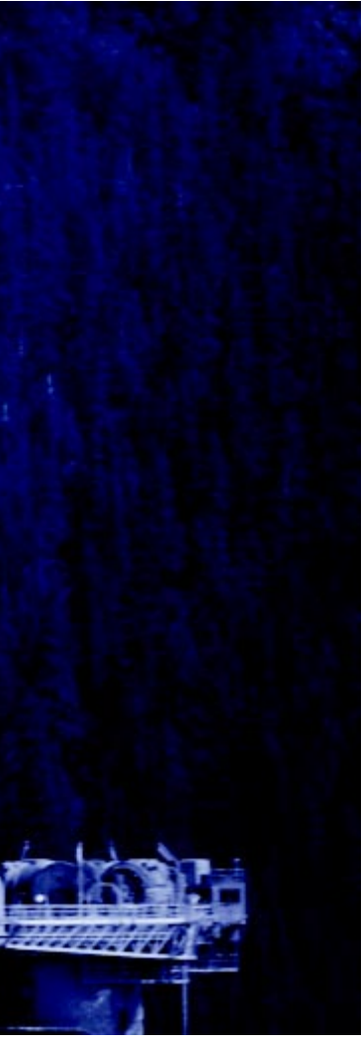
Programming

software that is the key...

IEC 61131-3 programming software from Schneider Electric unlocks the benefits of integrated automation solutions applicable in a broad range of industries and applications.

Concept is a universal programming system specifically designed to deliver optimal performance and ease of use, as well as minimal configuration, programming and maintenance costs.

To ensure the best fit with your particular application, you can combine Concept with any one of four powerful Schneider PLC platforms, including Quantum, Momentum, Compact or Atrium.



... to all the *benefits of integrated automation solutions*

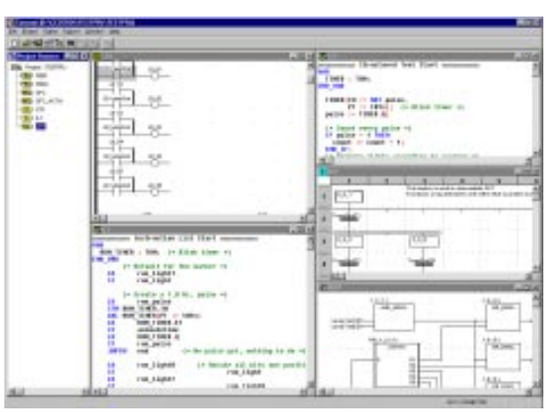
One application, custom features, and low cost

Schneider Electric's Concept software provides users with an advanced Microsoft Windows based toolset that delivers a multi-language development environment for control system programming. Using familiar, standardized editors bundled in a single application, users can create and integrate PLC control, communication and diagnostic logic.

Process productivity

Concept's five IEC editors Function Block Diagram (FBD), Ladder Diagram (LD), Sequential Function Chart (SFC), Structured Text (ST), and Instruction List (IL) are the main tools on the integrated programming palette that give users the freedom to choose the programming language that fits their application requirements. Schneider's IEC software utilizes structured programming to optimize variable usage as well as reduce software design time and maintenance costs.

Broad-based industry acceptance of IEC 61131-3 as a standard means users have a common set of languages to work with that act as a foundation. This common foundation delivers optimal flexibility between programs as well as the interoperability to work between vendors.



Concept 2.5
The certified IEC 61131-3...

Upload IEC programs

Users can simply turn on a preference in the code generation menu to include upload information and Concept will store your IEC program and all the tagnames in the PLC. This enables the transfer of previously loaded Concept 2.5 IEC programs from the PLC to the programming device.

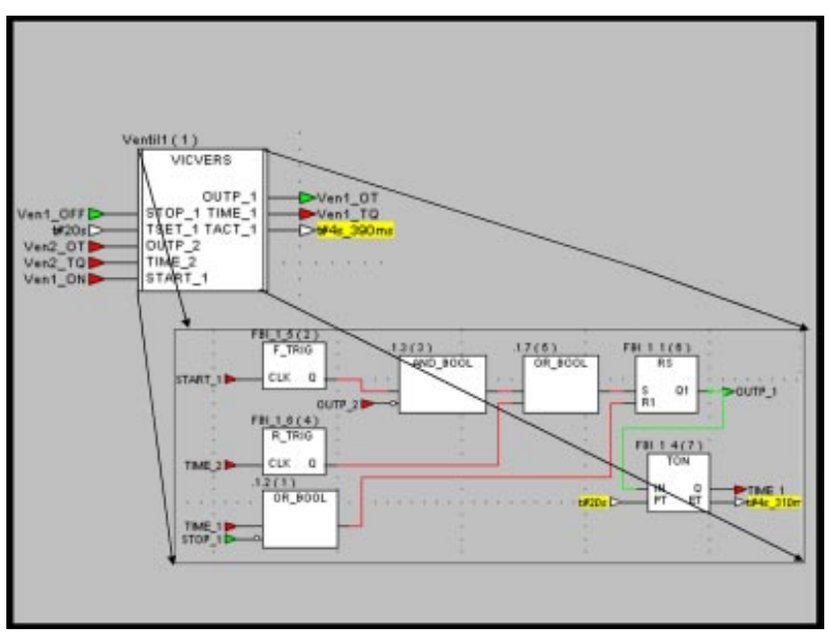
As an additional feature, Concept offers the unique option to store your variable and section comments in the PLC.

Reuse objects

Concept ‘s multi-language development environment enables programmers to create standard libraries of Derived Function Blocks (DFBs). Concept allows multiple instances of DFBs in an application program. These DFBs can be written in Ladder Diagram, Function Block Diagram, Structured Text or Instruction List languages. If a particular algorithm or standard piece of control logic needs to be modified, the change is performed once and Concept automatically performs any modifications for each copy of the DFB.

Export and import

To meet customer needs for streamlined programming, Concept offers macros that duplicate often-used code segments or sections with modified variable names. Users can export/import complete projects, sections, variable list, or configuration information from/to other Concept applications.



... programming solution

Data mining

Concept's performance features are significantly enhanced by the high level of compatibility it has with other Schneider products. Example - Users can access Concept tagnames via Schneider Electric's OPC Factory Server (OFS). The OFS tool provides direct database access to all Concept variables – located and unlocated, elementary and structured, and displays them as OPC objects. This means any OPC Client (e.g. VisualBasic) has easy online read/write control of critical PLC data. Access to this kind of data makes Concept a crucial component in HMI, SCADA, MES, and ERP systems.

Simulate first, install second

Schneider's testing and diagnostic simulation tools help users achieve significantly faster results in every phase of application development from specification to implementation.

Security

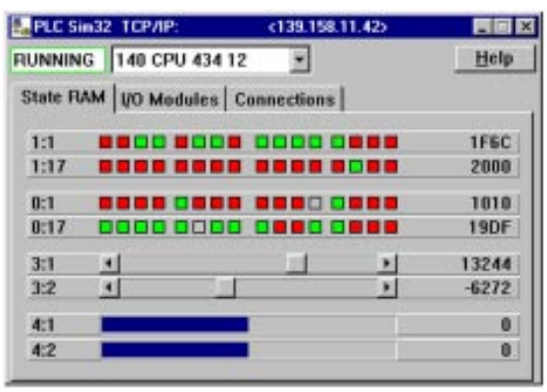
Once up and running, Hot Standby solutions manage automatic, instantaneous switching from the main CPU to a secondary CPU. The Hot-Standby functionality available on Schneider's Quantum platform is an integrated part of Concept and does not require any special programming.

Multi-level password protection

Concept provides up to nine levels of software access through easy-to-use configuration screens. This delivers the flexibility to assign multiple levels of password security, and reduces the chance for unauthorized changes to projects or DFBs.

Continuing Support Program (CSP)

At Schneider Electric, we give you more than just great software. You will receive a one-year membership of our Continuing Support Program with the purchase of Concept 2.5. Our fully trained Support Engineers are just a phone call, email or fax away. On request, we will extend our support service to 24 hours a day – 7 days a week, so you can get expert assistance whenever you need it. Our engineers work with users to resolve any issues and help optimize Concept's performance.



Concept 2.5
Specification Overview

Supported PLC Platforms	Quantum	140 CPU 113 02, 140 CPU 213 04, 140 CPU 434 12,	140 CPU 113 03, 140 CPU 424 02, 140 CPU 534 14 and derivatives thereof.
	Momentum	171 CCS 700 00, 171 CCS 760 00, 171 CCC 760 10, 171 CCC 960 20, 171 CCC 980 20,	171 CCS 700 10, 171 CCS 780 00, 171 CCC 780 10, 171 CCC 960 30, 171 CCC 980 30
	Compact	PC E984 258, PC E984 275,	PC E984 265, PC E984 285
	Atrium	180 CCO 121 01,	180 CCO 241 01
Operating Systems	Windows 98, Windows NT 4.0 SP5 or higher, and Windows 2000		
Communications	Support of Modbus, Modbus Plus, and Modbus TCP (10/100 Mbit/s)		
IEC Language Editors	Free Graphic Editors:	Function Block Diagram (FBD) Sequential Function Chart (SFC) Ladder Diagram (LD)	
	Text Editors:	Structured Text (ST) Instruction List (IL)	
Non-IEC Language	984 Ladder Logic (984LL)		
Included Function Block Libraries	IEC (Arithmetic, Bistable,Compare,Converter,Counter,Edge detection,Logic,Numeric, Select,Timer), EXTENDED (Arithmetic, Converter, ...), ANA_IO (Analog I/O, Configuration), FUZZY (Fuzzy Logic), COMM (IEC Commiunication), LIB984 (984 Ladder Logic FFB's),	SYSTEM (System based FFB library), CONT_CTL (Closed Loop Control), DIAGNO (Process Diagnosis), EXPERTS (FFB library for Expert Modules), AKFEB (Support for AKF modules)	
Basic Feature Set	Online help Powerful search functions Derived Data Types Code encapsulation Derived Function Blocks – DFBs Re-use of code/programs	Symbolic addressing Variable editor Debugging support Online data visualization Integration of 3rd party devices Excellent documentation capabilities	
Security	Protection of Projects Protection of Derived Function Blocks (DFB's) Multiple levels of password protection are possible		
Part Numbers	372SPU47101V25 372SPU47201V25 372SPU47401V25	Concept S Concept M Concept XL	Multi-User licenses available
	Upon installation, the user can select one of the following languages: English, French, German, or Spanish.		

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