DeviceCOM OPC Kit v1.0 for Windows CE
Industrial Automation Inter-Operability for Windows CE

Product Overview

The DeviceCOM™ OLE for Process Control (OPC) Kit makes it possible for equipment vendors, software developers, and system integrators to introduce Windows® CE devices into standard OPC factory automation environments. OPC is a standard built upon the OLE (Object Linking and Embedding) and DCOM (Distributed Component Object Model) standards for distributed systems.

The OPC Kit for Windows CE is based on DeviceCOM, the industry's first DCOM-compatible framework for Windows CE. DeviceCOM provides the COM/DCOM foundation that is required to integrate Windows CE devices into distributed systems. The DeviceCOM OPC Kit builds on the DeviceCOM foundation, providing OPC-specific proxy/stub libraries that support OLE/COM communication between Windows NT, Windows 95/98 and Windows CE platforms.

The DeviceCOM OPC Kit is a breakthrough for process control and related industries. Inexpensive, low level Windows CE devices can now be easily integrated into DCS (Distributed Control Systems) and SCADA (Supervisory Control And Data Acquisition) systems using the OPC standard for communications and interoperability. Previously, low level controllers, I/O, data acquisition devices could only communicate with OPC-based systems through expensive-to-develop custom interfaces Their simple system software could not support COM or DCOM.

DeviceCOM for OPC can also be implemented on low cost embedded PCs running ported Soft PLC and monitoring and control software.

Features and Benefits

First OPC standard for Windows CE - the first and only readily deployable, OPC compliant framework for Windows CE

Based on DeviceCOM, the first and only DCOM-compatible framework for Windows CE – no need to wait until v3.0 to implement a Windows CE OPC compliant distributed application;

Off-the-shelf OPC compatibility with existing OPC software:

- OPC Data Access 1.0a – Now!

- OPC Data Access 2.0 - 12/98

- Alarms and Events 1.0 - 12/98

Off-The-Shelf Application and Development Support - DeviceCOM for OPC can be used without any programming and includes all the necessary run-time libraries, OPC stub/proxy interface libraries and configuration utilities. For developers creating new Windows CE OPC clients or servers, the OPC Kit also includes a sample test OPC client and server code. Intrinsyc also provides a fully functional OPC server for Windows CE.

Small memory footprint - DeviceCOM OPC Kit is compact in size and depending on the processor platform selected can occupy less than 500K of memory, excluding the customer's own OPC server or client code.

Optimized for embedded systems – DeviceCOM does not carry some of the legacy baggage of standard DCOM and as such, can better suited for use in embedded systems in terms of memory size, wire protocol support and connection failure reporting;

Broad operating system support - DeviceCOM for OPC operates on all supported Windows CE 2.0/2.1 platforms, as well as Windows NT/95/98.

Customizable - For developers with the need to create and access custom COM objects, the DeviceCOM ODK (OEM Developer's Kit) is separately available.

INTRINSYC
Software Inc.

Technology Overview

The OPC architecture defines how OPC clients connect to OPC servers. Clients and servers are usually created by different vendors, using different languages. Generally, servers are created in C or C++ while client applications are created in languages like Visual Basic and Delphi.

There are three common scenarios when using the DeviceCOM OPC Kit:

- Existing DCOM OPC clients (Win95, Win98, NT4.0) use a built-in surrogate bridge function in Windows NT4.0 to access Windows CE OPC server services.

- OPC clients (CE, NT4.0), configured to work directly with DeviceCOM, access an OutProc (Local/Remote) OPC server.

- OPC clients (CE, NT4.0), configured to work directly with DeviceCOM, run on the same device as the InProc OPC server.
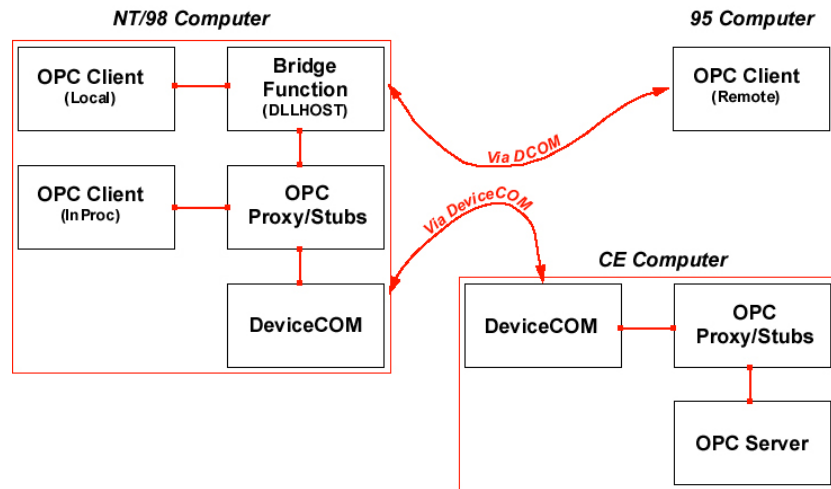
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Specifications

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<th rowspan="2">Development Environment</th>
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System Requirements:
- Microsoft Windows NT 4.0.
- Microsoft Windows CE Toolkit for VC++ 5.0
- Microsoft Windows CE Embedded ToolKit (ETK)
- Microsoft Windows CE 2.0 or 2.1, custom or standard platform (H/PC, Palm-Size PC), with Ethernet Adapter or serial Mobile Services link.

Tools and Utilities included in OPC Kit:
- Online Help and Tutorials
- DeviceCOM Server Registration Utility
- Sample Windows CE OPC server and client (note: full OPC server separately available and licensable).

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<th rowspan="2">Run-Time Environment</th>
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System Requirements:
- Windows CE v2.0 and v2.1 (with Ethernet Adapter or serial Mobile Services link).
- Windows NT 4.0, Windows 95/98.

Supported processors:
- all processors supported in Windows CE 2.0 and 2.1.

Interoperability:
- OPC Data Access 1.0a.
- OPC Data Access 2.0 - 12/98.
- Alarms and Events 1.0 - 12/98.

Typical Windows CE Memory Requirements:
- About 500Kb, depending on the processor, excluding OPC client or server software, including the DeviceCOM core framework.

Tools/Utilities:
- DeviceCOM Server Registration Utility.

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