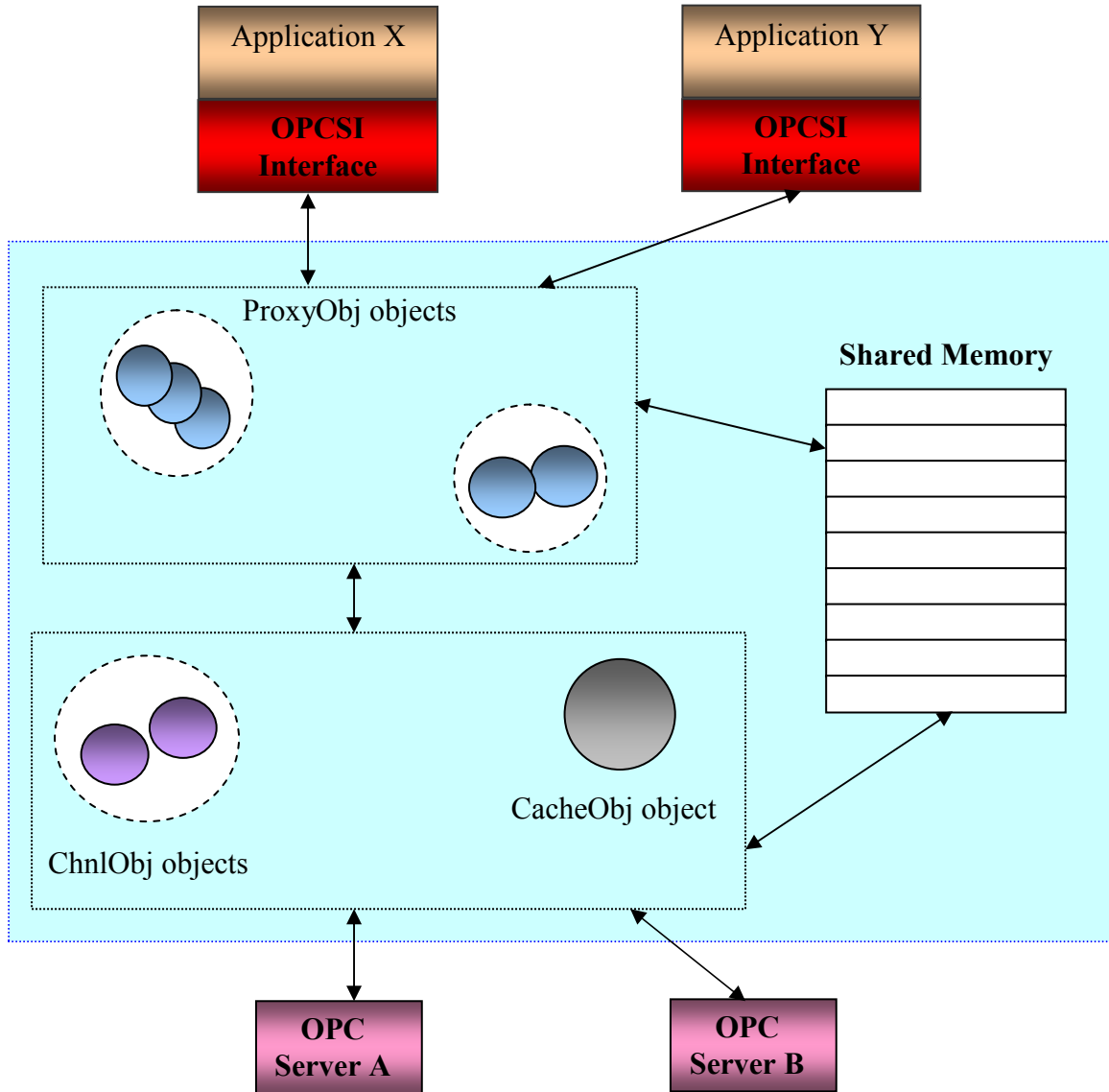


# OPC Servers Integrator (OPCSI)



## Connecting your applications to any OPC servers

- A middleware for OPC servers
- Detects all OPC servers
- An interface for applications
- Supports direct and cache accesses
- Manages shared resources
- Uses user-defined names
- Hides COM/OPC details

### Introduction

Nowadays, your enterprise applications need to communicate with various devices across all levels of a production environment from data acquisition, process control and automation, all the way to the management offices. So, you

decided to use OPC specifications.  
Great! But that's not all!

In spite of the tremendous benefits of OPC technologies, its programming is nontrivial and difficult because of the complexity of the COM and OPC itself. Besides, an application may need to access multiple OPC servers; multiple applications may need to access multiple OPC servers; applications need business-specific names instead of OPC vendor-specific names. The *OPC Servers Integrator (OPSCI)* is an OPC programming middleware which deals with all these issues.

## Features

- Detects, creates and manages all OPC servers in a networked environment.
- Allows direct access to an OPC server or via a memory cache.
- Provides an interface to access any of OPC servers.
- Provides an interface to traverse shared resources.
- Uses a global shared memory to maintain OPC-related resources.
- Uses user-defined names, instead of vendor-specific names, to access OPC items.

## Benefits

**Rapid development.** Comparable to more than a dozen of interfaces and hundreds of methods plus many COM programming issues in OPC programming, the *OPC Servers Integrator (OPCSI)* has only two interfaces, each of which has a handful of intuitive methods, for application developers to use.

**Low maintenance.** Since the *OPC Servers Integrator* detects, instantiates and manages OPC servers automatically, device-related software/hardware addition, removal, upgrade or exchange become trivial. For instance, when adding a new device, you just need to install and configure the new device and its OPC server. Then, all existing applications recognize and are ready to communicate with the new device without a single line of code change.

**Superior performance.** The *OPC Servers Integrator* uses a chunk of shared memory to cache the data of OPC servers and constantly updates the shared memory and OPC servers in the background. A read/write from an application is simply an access to the shared memory, which is orders of magnitudes faster than a cross-process (or cross-host) access to an OPC server.

**Flexibility.** The *OPC Servers Integrator* gives applications two options: read/write from/to the shared memory or read/write from/to an OPC server directly. This flexibility allows applications access OPC servers for some special purposes such as diagnostics without sacrificing the performance.

**Leverage of enterprise development.** In a networked enterprise environment, an organization defines its OPC resources based on its business once, then, uses the *OPC Servers Integrator (OPCSI)* to communicate between applications and devices, from plant floor to MIS and beyond.

## More Information:

<http://www.centurytechs.com>