



.NET Web Services Version Management System

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Outline

- Web Services
 - What they are
 - Similar technologies
 - How they work
- Version Control Systems
 - What they are
 - Existing systems
- The Project
 - Aims & Basic Functionality
 - Current Progress



Web Services

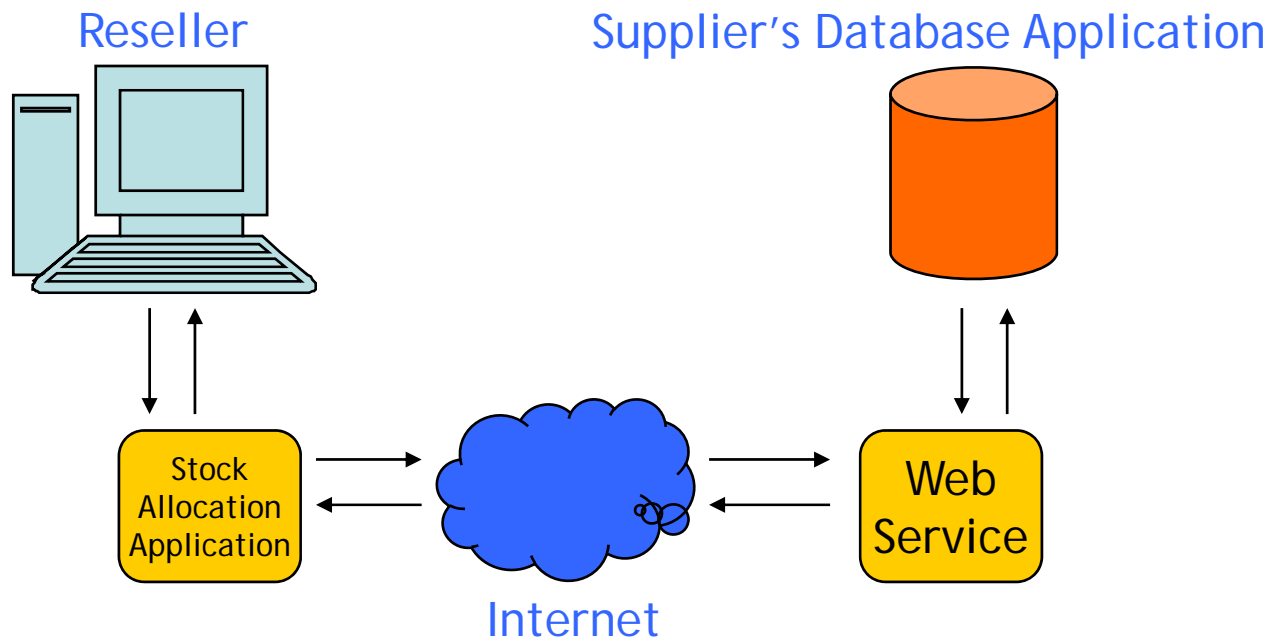
- New technology
- Enables applications to communicate across networks
- Cross platform
- Uses open standards
 - XML (Extensible Mark-up Language)
 - SOAP (Simple Object Access Protocol)
 - WSDL (Web Service Description Language)
 - UDDI (Universal Discovery, Description and Integration)



Web Services: Similar Technologies

- COM (Component Object Model)
- DCOM (Distributed COM)
- CORBA (Common Object Request Broker Architecture)
- IIOP (Internet Inter-Orb Protocol)
- Java RMI (Java Remote Method Invocation)
- XML-RPC (XML Remote Procedure Call)

Web Services: How They Work





Version Control Systems

- Used for managing versions of documents
- Enables several people to work on a project at the same time
- Users “check out” their own copy of the file to edit
- Changes are then “committed” back to server



Version Control Systems: Some Existing Systems

- RCS (Revision Control System)
- CVS (Concurrent Versions System)
- SVN (Subversion)



The Project

- To create a basic Version Control System
- Using:
 - Web Services
 - Microsoft .NET Framework
 - Functions similar to SVN



The Project: Server Application

- Lists stored files
- Allows a user to “check out” file
- Updates revision number on “commit”
- Merges changes when revision numbers do not match



The Project: Client Application

- “Checks out” a copy of a file
- Sends (“commits”) updates to server



The Project: Current Progress

- Research into SVN
- Research into Web Services
- Simple Web Service Examples



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