

Setup

Microsoft Dynamics AX 2009

Microsoft Visual SourceSafe Version Control Setup

White Paper

This document describes how to set up the Version Control System (VCS) for Microsoft Dynamics AX 2009 by using Microsoft Visual SourceSafe as the version control system.

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Introduction

You can use Microsoft Visual SourceSafe (VSS), Microsoft Visual Studio Team Foundation Server (TFS), or MorphX VCS for version control in Microsoft Dynamics AX 2009. This document describes how to set up the Version Control System (VCS) for Microsoft Dynamics AX 2009 by using VSS as your VCS. The steps involved in setting up version control by using VSS are:

- Set up Microsoft Visual SourceSafe on the version control server.
- Set up Team Server (the ID server) on the Team Server computer.
- Set up Microsoft Dynamics AX 2009 and the Microsoft Visual SourceSafe client on the administrator computer.
- Configure version control settings in Microsoft Dynamics AX 2009.

Version Control System Considerations

Before you configure Microsoft Dynamics AX 2009 to utilize VSS for version control, review the requirements and features of each of the VCS options. For more information about VCS options, see the version control documentation in Microsoft Dynamics AX 2009.

Setup overview

	Source Control Server	Team Server computer	Administrator and developer computer
Computer configuration	<ul style="list-style-type: none"> • Windows Server 2003, Windows XP, Windows 2000, or Windows NT 4.0 with SP6 or later, • Microsoft Visual SourceSafe 	<ul style="list-style-type: none"> • Supported Operating System (See Set up the Developer and Administrator Computers later in this document) • Team Server database on Microsoft SQL Server or Oracle 	<ul style="list-style-type: none"> • Supported Operating System (See Set up the Developer and Administrator Computers later in this document) • Microsoft SQL Server or Oracle • Microsoft Dynamics AX 2009 application, AOS, and client • Visual SourceSafe client
Tasks	<ul style="list-style-type: none"> • Install and set up (Admin) 	<ul style="list-style-type: none"> • Install and set up (Admin) 	<ul style="list-style-type: none"> • Install on each computer (Admin and developers)

Install and Set Up the Team Server (ID Server)

Note: *Team Server* should not be confused with *Team Foundation Server*. *Team Server* is an ID server that handles the task of issuing unique IDs to objects and labels when they are created.

See the *Team Server (ID Server) Setup Whitepaper* to set up *Team Server* at <http://go.microsoft.com/fwlink/?LinkId=120292>.

Install and set up the Microsoft Visual SourceSafe Server

Install Microsoft Visual SourceSafe on the VSS server computer.

1. Start Setup.exe.
2. Enter your VSS product key, read the Microsoft Software License Terms, select **I accept the terms of the License Agreement**, and then click **Next**.
3. Select **Default** to install the default features.
4. Click **Finish** when the setup is complete.

Create a New VSS Database on the VSS Server

1. Click **Start > All Programs > Microsoft Visual SourceSafe > Microsoft Visual SourceSafe Administration**.
2. Click **File > New Database**, and then click **Next**.
3. In the **Location** text box, type the path and folder name of the database, and then click **Next**.
4. Type a name for the new VSS database, and then click **Next**.
5. Select the **Lock-Modify-Unlock Model** check box for the pessimistic concurrency model, or select the **Copy-Modify-Merge Model** check box to allow for concurrent development; and then click **Next**.
6. Click **Finish**.

Create a New VSS Database on the VSS Server

1. On the VSS server computer, open Microsoft Visual SourceSafe.
2. In the VSS database, right-click the root node (**\$/**), and then select **Create project**.
3. Type a name for the project that will hold the Microsoft Dynamics AX 2009 objects. For example, Ax2009.

Share the VSS Database Folder on the Server

1. Right-click the VSS database folder, and then select **Sharing and Security**.
2. Click **Share this folder**.
3. Click the **Permissions** button.
4. In the **Group or User names pane**, select a user group, a user, or Everyone.
5. Select the check box to **Allow Full Control**, and then click **OK** twice.

Protect the Global Version Control Settings

We recommend that you grant write access to the vcsdef.xml file on the VSS server only to the administrator.

1. Click **Start > All Programs > Microsoft Visual SourceSafe > Microsoft Visual SourceSafe Administration**.
2. Click **Tools > Options**.
3. On the **Project rights** tab, select **Enable Rights and Assignments commands**, and then click **OK**.
4. Click **Tools > Rights by project**.

5. Expand the project nodes, and then select the **Definition** node.
6. Select all of the developers in the users' list, and clear the **Check Out/Check In** check box. This enables read-only access to all developers, and the administrator keeps all rights.

Set up the Developer and Administrator Computers

Install the Operating System

See <http://go.microsoft.com/fwlink/?LinkId=113164&clcid=0x409> for system requirements.

Install MS SQL Server or Oracle

See <http://go.microsoft.com/fwlink/?LinkId=113164&clcid=0x409> for system requirements.

Install Microsoft Dynamics AX 2009

See <http://go.microsoft.com/fwlink/?LinkId=117123> for access to the Microsoft Dynamics AX Implementation Guide.

Install the Microsoft Visual SourceSafe Client on Each Developer Computer

1. Start Setup.exe.
2. Enter your VSS product key, read the Microsoft Software License Terms, select **I accept the terms of the License Agreement**, and then click **Next**.
3. Select **Custom**, and then click **Next**.
4. Select **Visual SourceSafe** and **Documentation** (optional), and then click **Next**.
5. Click **Finish** when installation is complete.

Connect the VSS Client to the VSS Server Database

This optional step verifies that the installation succeeded and that you can see the VSS server.

1. Click **Start > All programs > Microsoft Visual SourceSafe > Microsoft Visual SourceSafe**.
2. Click **File > Open SourceSafe database**.
3. Click **Add**, and then click **Next**.
4. Select the **Connect to an existing database** option, and then click **Next**.
5. Type the path of the VSS database folder on the server, click **Next** twice, and then click **Finish**.
6. Click **Open**.

Set Up Local Version Control Parameters (Developer and Administrator)

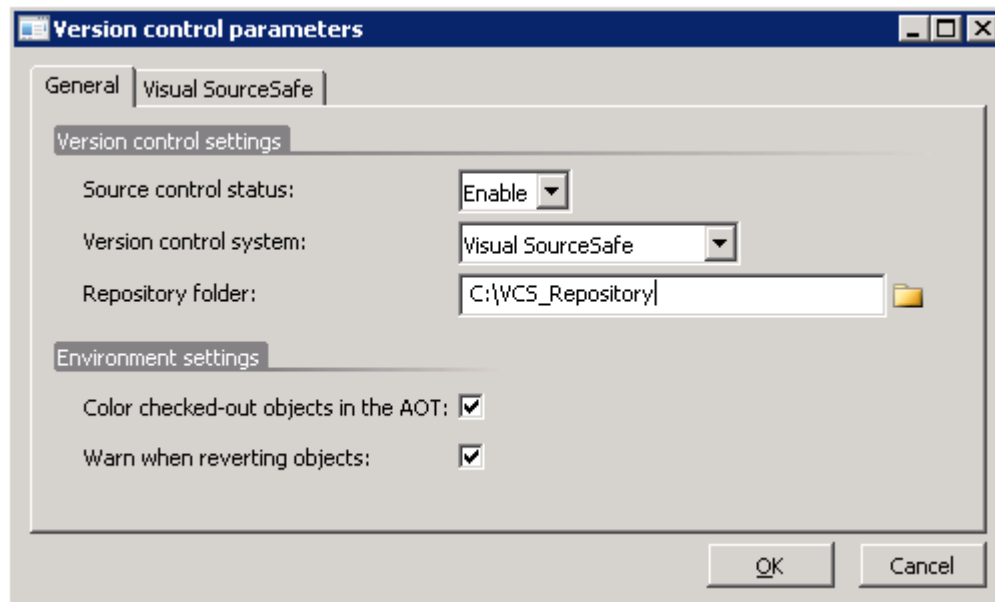
Create a Local Repository Folder

1. Open Windows Explorer.
2. Create a new folder to use as the local repository folder. For example, C:\VCS_Repository.

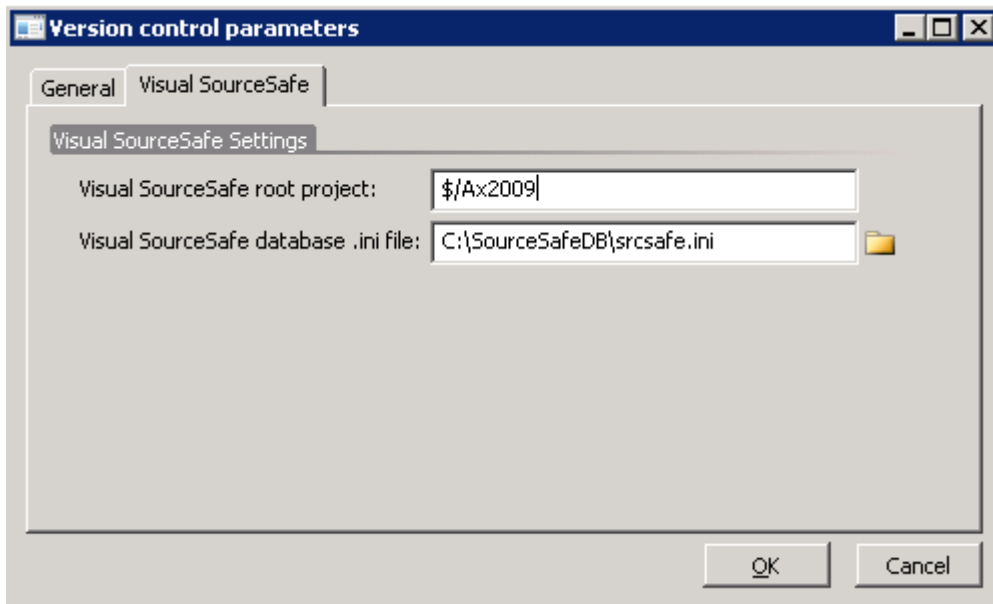
Note: Consider the folder you choose for the local repository folder. If a VSS client that runs against the VSS server shares a local repository folder with a Microsoft Dynamics AX 2009 client and a change is checked in by using the VSS client, the Microsoft Dynamics AX client will not reflect those changes when you synchronize the Microsoft Dynamics AX client unless you select **Force** when you synchronize.

Set Up the Version Control Parameters

1. Click **Microsoft Dynamics AX > Tools > Development tools > Version control > Setup > Parameters.**



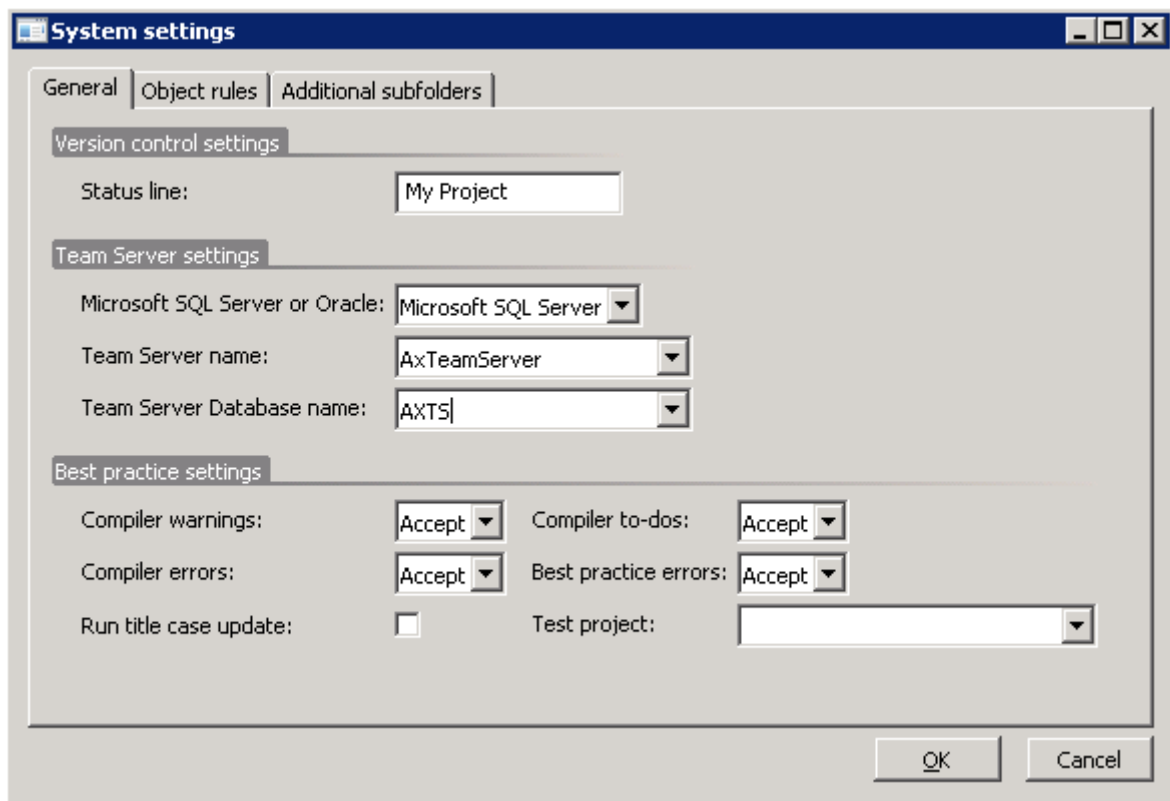
2. In **Source control status**, select **Enable**.
3. In **Version control system**, select **Visual SourceSafe**.
4. In **Repository folder**, type the path of the repository folder.
5. Choose environment settings, or use the default environment settings.
6. Click the **Visual SourceSafe** tab.



7. In the **Visual SourceSafe root project** field, type the name of the project in VSS. Remember to include the ROOT name, such as **\$/Ax2009**.
8. In the **Visual SourceSafe database .ini** field, type the path and file name for the srcsafe.ini file in the SourceSafe database folder.

Configure Global Version Control System Settings (Administrator)

1. Click **Microsoft Dynamics AX > Tools > Development tools > Version control > Setup > System settings**.



2. In **Microsoft SQL Server or Oracle**, select the type of database that the Team Server uses.
3. If you selected **Microsoft SQL Server** in step 2, type the name of the Team Server in **Team Server name**. If you selected **Oracle** in step 2, type or select the TNS Service name in **Team Server TNS Service Name**.
4. If you selected **Microsoft SQL Server** in step 2, type or select the name of the Team Server database, such as AXTS, in **Team Server Database name**. If you selected **Oracle** in step 2, type or select the Team Server schema, such as AXTS, in **Team Server Schema**.
5. Specify best practice settings.

Create Repository

You must add all objects from your master copy of Microsoft Dynamics AX 2009 to the VCS server. When you add the objects to the server that runs the VCS, they are automatically registered in the Team Server so that IDs are assigned to them. Assigning IDs to all existing objects ensures that the Team Server can issue unique IDs for new objects when they are created.

Create a Local Repository Folder

Create a repository folder on your computer. When you add the Application Object Tree (AOT) objects to the server, a copy of each object is also added to your repository folder.

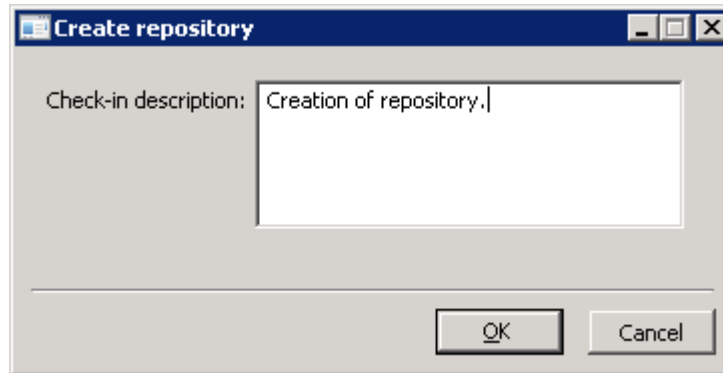
Note: Consider the folder you choose for the local repository folder. *If a VSS client that runs against the VSS server shares a local repository folder with a Microsoft Dynamics AX 2009 client and a change is checked in by using the VSS client, the Microsoft Dynamics AX 2009 client will not reflect those changes when you synchronize the Microsoft Dynamics AX 2009 client unless you select **Force** when you synchronize.*

1. Open Windows Explorer.

2. Create a new folder to use as your local repository folder, such as C:\VCS_Repository.

Create Repository

1. Click **Microsoft Dynamics AX > Tools > Development tools > Version control > Create repository**.

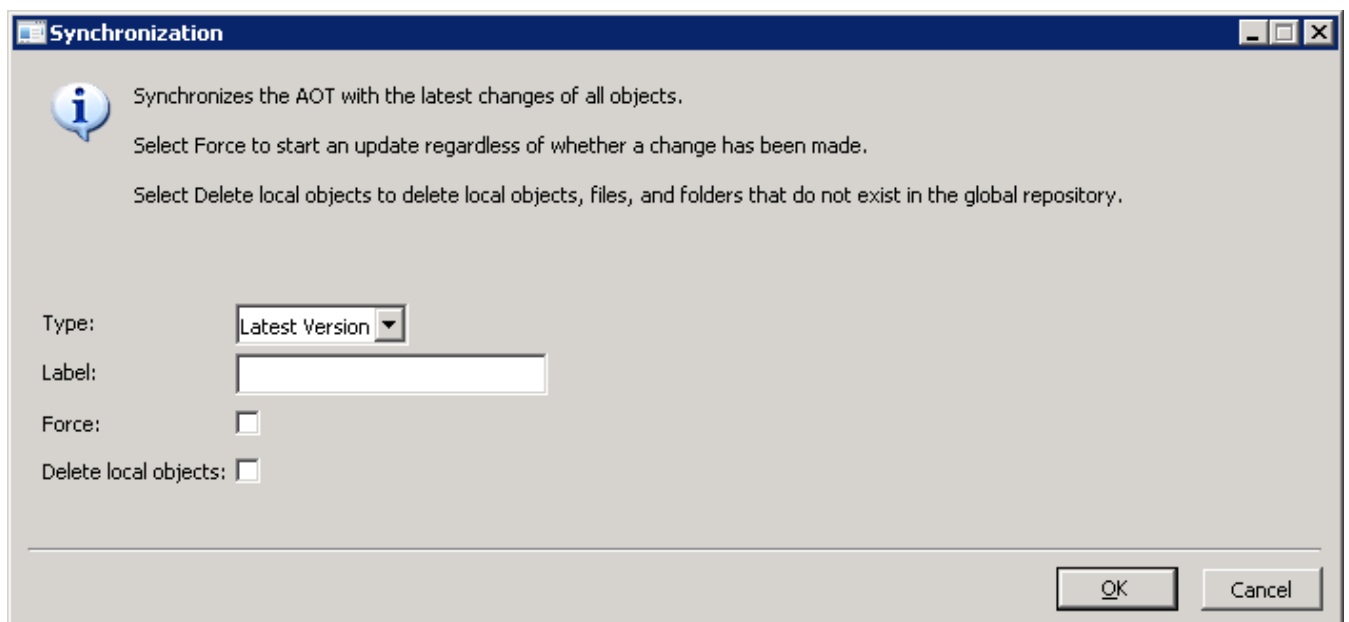


2. In **Check-in description**, type a description of the check-in, such as "Creation of repository."
3. Click **OK**.

Synchronize Objects

At first, the local version of Microsoft Dynamics AX 2009 may not be synchronized with the master version that is deployed by the version control administrator. To access the latest version of all AOT objects, synchronize the local version with the version that is on the server that is running the version control system.

1. Click **Microsoft Dynamics AX > Tools > Development tools > Version control > Synchronize**.



2. Indicate whether you want to force the synchronization and whether you want to delete local objects that have been deleted on the source control server (optional).
3. Click **OK** to start synchronization.

Optional Task

Add Ax32Serv.exe as an Exception on the Win2K3 Database Server Firewall

1. Click **Start > Control panel > Windows Firewall**.
2. Select **On** to turn on the firewall.
3. On the **Exceptions** tab, click the **Add program** button.
4. In the **Add a program** dialog box, browse to locate the **Ax32Serv.exe** file on your computer, and then click **OK** to add it to the list of exceptions.

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