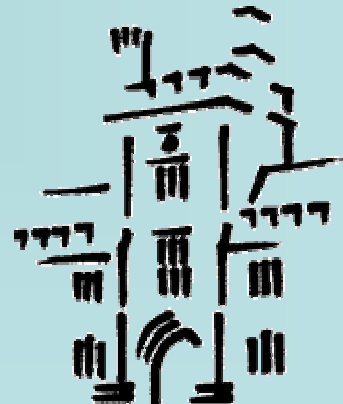


Implementing a SUS Solution at University College Cork

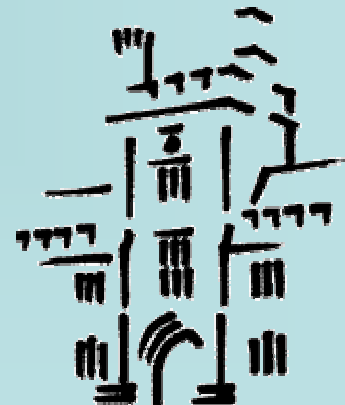


What is SUS?

- Software Update Service is like running a Windows Update server inside your network.

Supported Operating Systems

- Windows 2000 Server and Professional
- Windows XP
- Windows Server 2003



Installation

Hardware:

Dual Xeon Server with 1Gb RAM

Software:

- Windows Server 2003
- IIS 6 (included with OS)
- Microsoft Software Update Services (SUS) Server 1.0 with Service Pack 1



Live Test Environment

- AD domain
- OU with automatic update settings changed through group policy
- 30 client machines moved to this OU



Live Test Errors

1. Downloads: Loss of network connection caused download failures to be logged
2. Installation: If a patch required a restart, and the user did not, then a failure to install would be logged to the SUS server

Solutions?



How does it work?

- The SUS server connects to the Microsoft over HTTP
- The digital signatures of the patches are checked before downloading them locally
- The SUS administrator must authorize each and every update before they become available
- If more than one SUS server is onsite each dependant SUS server can communicate with the primary server over HTTP or HTTPS



Microsoft Software Update Services

Version 1.0.3630.2552

Software Update Services

- Welcome
- Synchronize server
- Approve updates

Other Options

- View synchronization log
- View approval log
- Set options
- Monitor server

See Also

- About Software Update Services
- Microsoft Windows Update
- Microsoft Security
- Microsoft Support Knowledge Base

Synchronization Log

This log includes information about synchronizations that have occurred between your local server and the Software Update Services servers.

Automatic Sync Started- 27 November 2003 00:00:02
Software Update Services is up to date. No changes were required during synchronization.
Sync Finished-27 November 2003 00:01:03

Automatic Sync Started- 26 November 2003 00:00:02
Software Update Services is up to date. No changes were required during synchronization.
Sync Finished-26 November 2003 00:01:04

Automatic Sync Started- 25 November 2003 00:00:03
Software Update Services is up to date. No changes were required during synchronization.
Sync Finished-25 November 2003 00:01:04

Automatic Sync Started- 24 November 2003 00:00:03
Software Update Services is up to date. No changes were required during synchronization.
Sync Finished-24 November 2003 00:01:04

Automatic Sync Started- 23 November 2003 00:00:02
Software Update Services is up to date. No changes were required during synchronization.
Sync Finished-23 November 2003 00:01:03

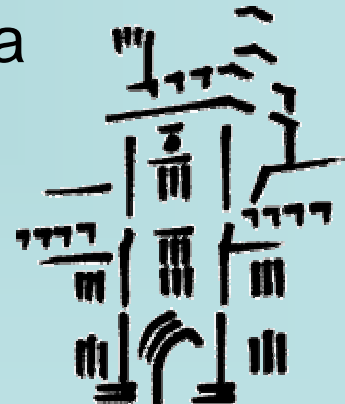
Automatic Sync Started- 22 November 2003 00:00:03
Software Update Services is up to date. No changes were required during synchronization.
Sync Finished-22 November 2003 00:01:04

Automatic Sync Started- 21 November 2003 00:00:03 Successful

Clear Log Print Log...

How does it work?

- The main client settings are:
 - “Notify for download and notify for install” – user has the option to postpone the download
 - “Auto download and notify for install” – user has the option to postpone the install
 - “Auto download and schedule for install” – user does not have option to postpone the installation
 - “No automatic restart with logged on users” – option to prevent Automatic Updates from restarting a computer while users are logged on



GPO Windows Update

The screenshot displays the Group Policy Editor window with the 'Windows Update' policy selected. The left-hand navigation pane shows the hierarchy: Local Computer Policy > Computer Configuration > Administrative Templates > Windows Components > Windows Update. The main pane shows the 'Configure Automatic Updates' policy, which is currently set to 'Enabled'. Below the policy name, there are requirements, a description, and a list of three options: 2 (Notify before downloading), 3 (Default setting), and 4 (Auto download and schedule the installation).

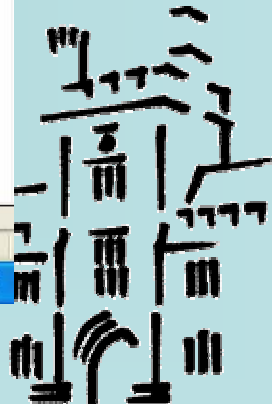
The 'Configure Automatic Updates Properties' dialog box is open, showing the 'Explain' tab. It displays the 'Configure Automatic Updates' setting with radio buttons for 'Not Configured', 'Enabled', and 'Disabled'. The 'Enabled' option is selected. Below this, there is a dropdown menu for 'Configure automatic updating' set to '4 - Auto download and schedule the installation'. Underneath, there are two more dropdown menus: 'Scheduled install day' set to '0 - Every day' and 'Scheduled install time' set to '13:00'. The dialog also indicates it is supported on Windows Server 2003 family, XP SP1, and 2000 SP3. Buttons for 'Previous Setting', 'Next Setting', 'OK', 'Cancel', and 'Apply' are visible at the bottom.

Setting	State
Configure Automatic Updates	Enabled
Specify intranet Microsoft update service location	Enabled
Reschedule Automatic Updates scheduled installations	Enabled
No auto-restart for scheduled Automatic Updates installations	Disabled

2 = Notify before downloading any updates and notify again before installing them

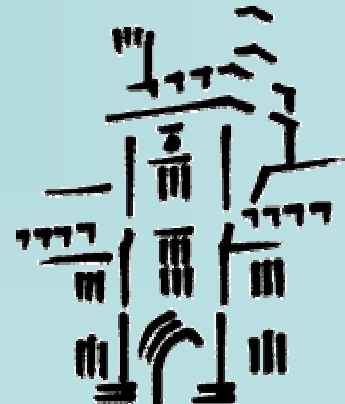
When Windows finds updates that apply to this computer, an icon appears in the status area with a message that updates are ready to be downloaded. Clicking the icon or message provides the option to select the specific updates to download. Windows then downloads the selected updates in the background. When the download is complete, the icon appears in the status area again, with notification that the updates are ready to be installed. Clicking the icon or message provides the option to select which updates to install.

3 = (Default setting) Download the updates automatically and notify when they are ready to be installed



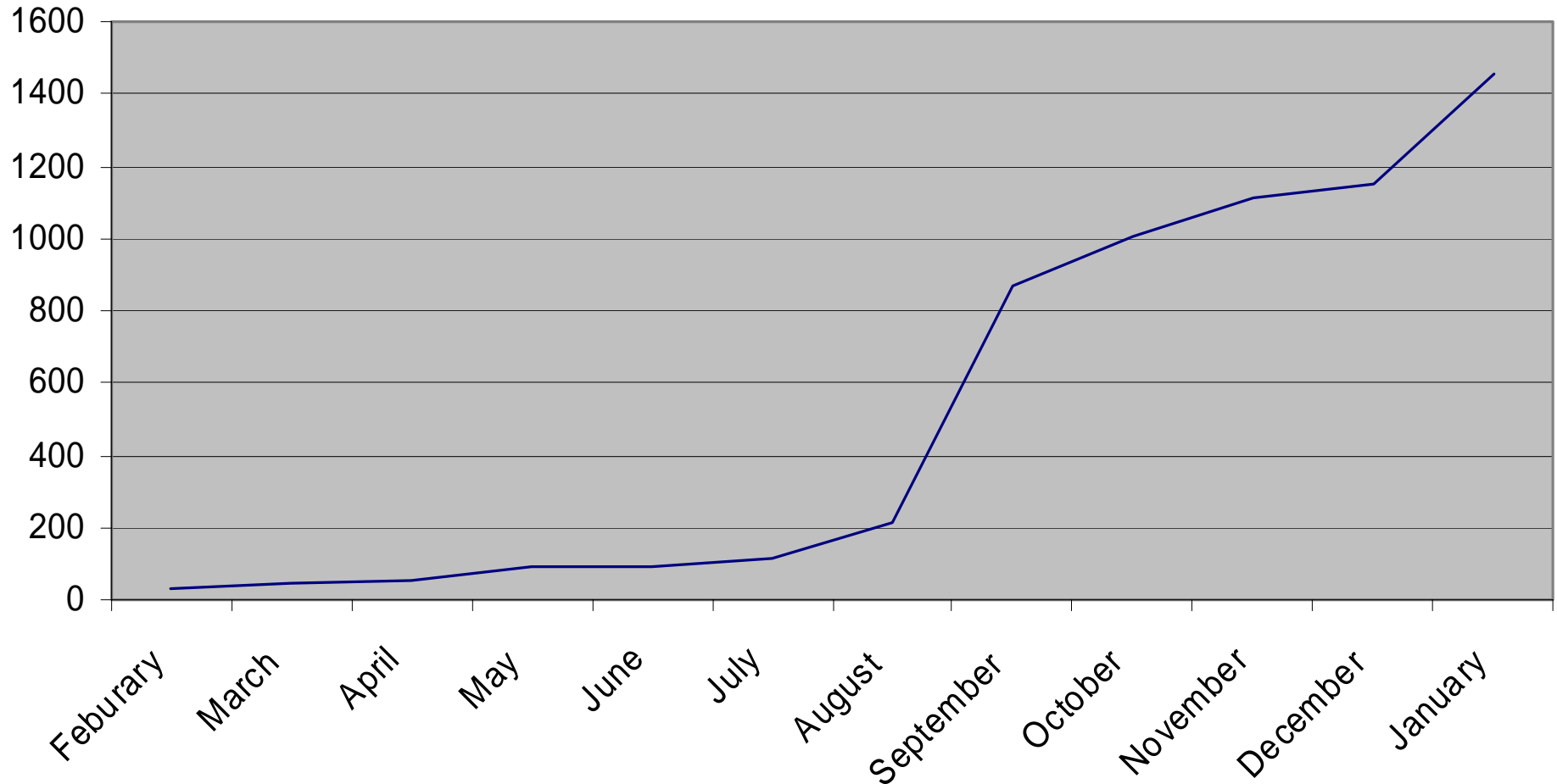
Manageability – AD Required

- Without Active Directory the SUS service cannot be rolled out effectively
- Group policies for members of the Active Directory Domain can be set centrally by the domain/OU administrator



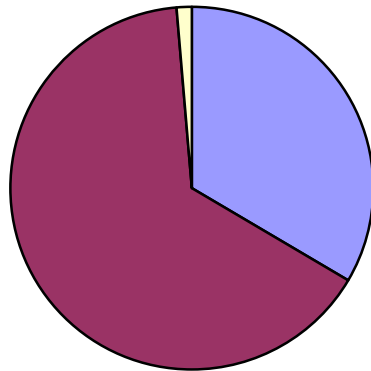
Current numbers

SUS by computer numbers



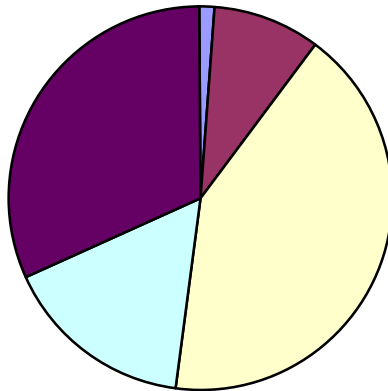
Current numbers

SUS by OS Jan '05



- Windows 2000
- Windows XP
- Windows Server 2003

SUS by IT area



- Servers
- Staff computers
- Student Labs
- Engineering
- BIS



Benefits of SUS service

- Guaranteed installation of approved updates
- Scheduled installation options
- Built-in security
- Accurate detection of necessary updates
- Background downloads
- Chained installation
- Manageability
- It's Free (except for the server and the OS)
- A server can support up to 15,000 clients

