



Windows SharePoint Services Connector for WebDAV

**A result of a collaboration between
Microsoft Corp. and Comma Soft AG
with support of SAP AG**

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Agenda

- Motivation
- Developing a solution
- Architecture
- Features
- Constraints
- Roadmap
- Demo



Motivation



Motivation 1 – Current Situation

- **Current situation:** customers are using different repositories for documents
 - **SAP Enterprise Portal (SAP EP)**
 - Windows SharePoint Services (WSS)
 - SharePoint Portal Server (SPS)
 - Microsoft Exchange Server public folders (MXS)
 - ...
- **Drawbacks:**
 - Heterogeneous access to documents for SAP EP users
 - Varying user names / logon names for repositories
 - Varying interfaces of repositories
 - No global services like searching or indexing for all documents
 - Management of documents complicated, copy/move between repositories, accessing metadata
 - No unified support for application-based access



Motivation 2 – Expected Benefits

- **Goal: unified access for SAP EP users to all documents from all repositories**
 - All documents are available for common and easy access independently of the repository they are stored in (SAP EP-, WSS-, SPS- or MXS-based repository)
 - Global search for information in documents
 - Link / attach documents to business processes / workflows
 - Copy / move documents between repositories maintaining all document properties / meta data
 - Single user interface for all users and all documents
 - Single Sign On for all users and all documents
 - Unified Application Programming Interface for all repositories



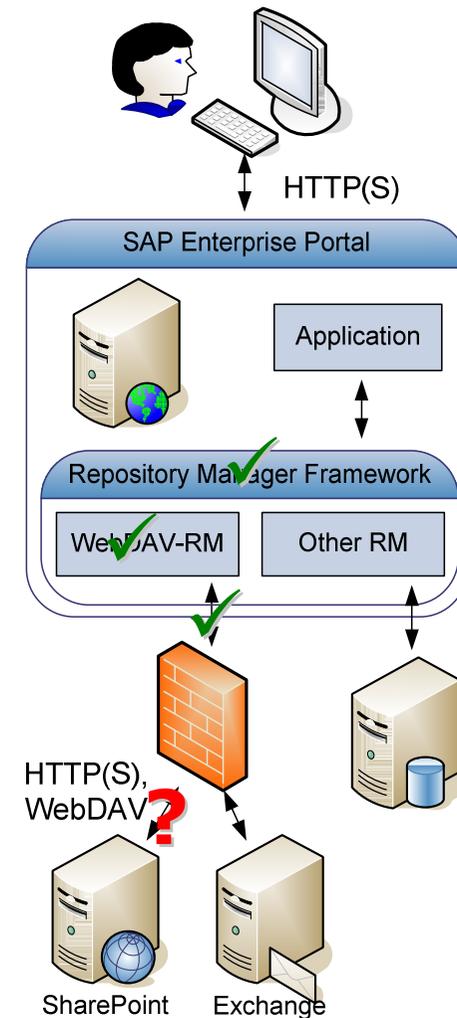
Developing a solution

Let's think about existing standards...

- SAP EP already offers a *WebDAV Repository Manager*
- What is the WebDAV Repository Manager?
 - WebDAV
 - Web-based Distributed Authoring and Versioning Protocol
 - Protocol defined by Request for Comment (RFC) 2518
 - Extension to basic HTTP/1.1 (no additional open ports on firewalls)
 - RFC abstract:
WebDAV specifies a set of methods, headers, and content-types ancillary to HTTP/1.1 for the management of resource properties, creation and management of resource collections, namespace manipulation, and resource locking (collision avoidance)
 - Repository Manager
 - A SAP EP based architecture to access different repositories with a homogenous API.
 - Does not only sound great, it **is** great and easy!
- Promising approach that fits most of our needs

What do we have and what do we need ?

- We have:
 - Repository Managers for abstracting different repositories
 - WebDAV protocol for accessing and transporting documents and their metadata
- We need:
 - A way for an effective and efficient usage of WebDAV
 - Do the Microsoft products support WebDAV?





Support of WebDAV by MS products

- Which Microsoft products offer built-in WebDAV-support?
 - Microsoft Exchange: yes
(Outlook Web Access is based on WebDAV)
 - Windows SharePoint Services: yes
(WSS can be integrated into Windows Explorer as Web Drives by means of WebDAV)
 - SharePoint Portal Server: yes
(Offers a fully-featured portal solution and is based on WSS)
- Result: Life could be so easy
 - SAP EP offers repository abstraction and WebDAV support
 - The relevant Microsoft products offer WebDAV support



Limitations

- **Live *could* be easy, because:**
 - Windows SharePoint Services' WebDAV implementation has some limitations which would prevent a connectivity with SAP EP
 - These limitations are due to the imprecise WebDAV RFC
 - This applies to Windows SharePoint Services as well as to SharePoint Portal Server
 - At least, there are no problems with Microsoft Exchange
- **But to save the day:**
 - Microsoft is planning to release the *Windows SharePoint Services Connector for WebDAV* (aka *SharePoint WebDAV Connector / SWC*) shortly
 - SWC is a completely new implementation of a WebDAV-server stack
 - SWC can replace SharePoint's WebDAV implementation
 - SWC will offer lots of enhancements for full integration operability with SAP EP
 - **This is the solution!**



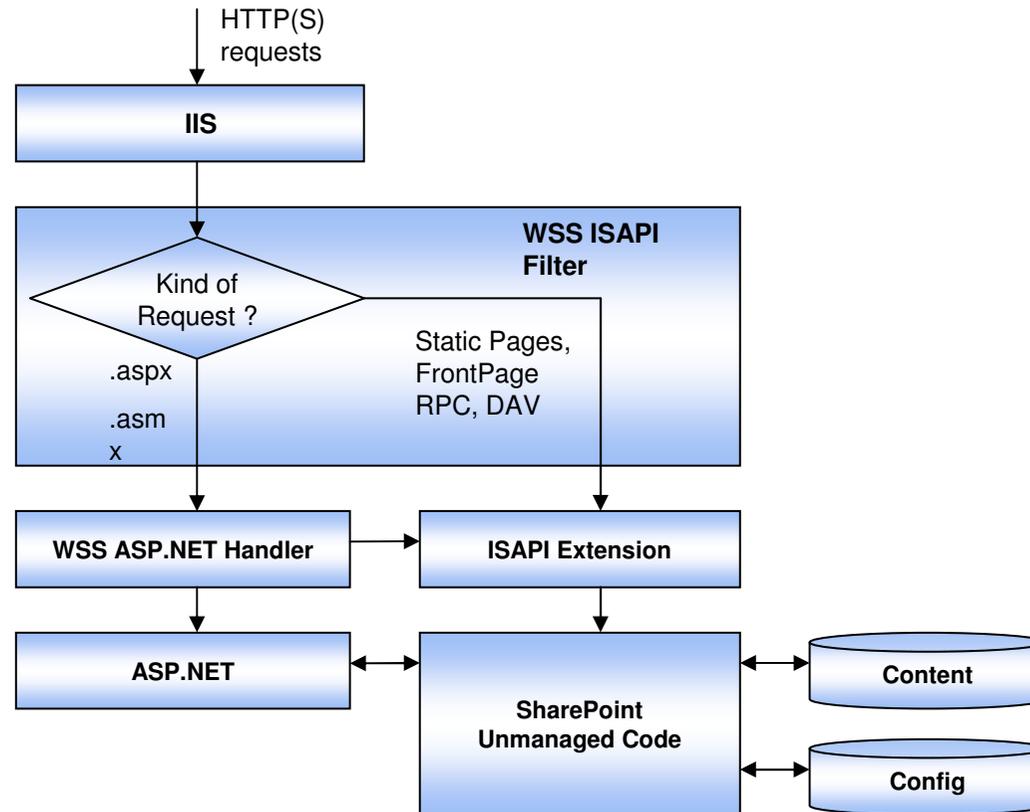
Architecture



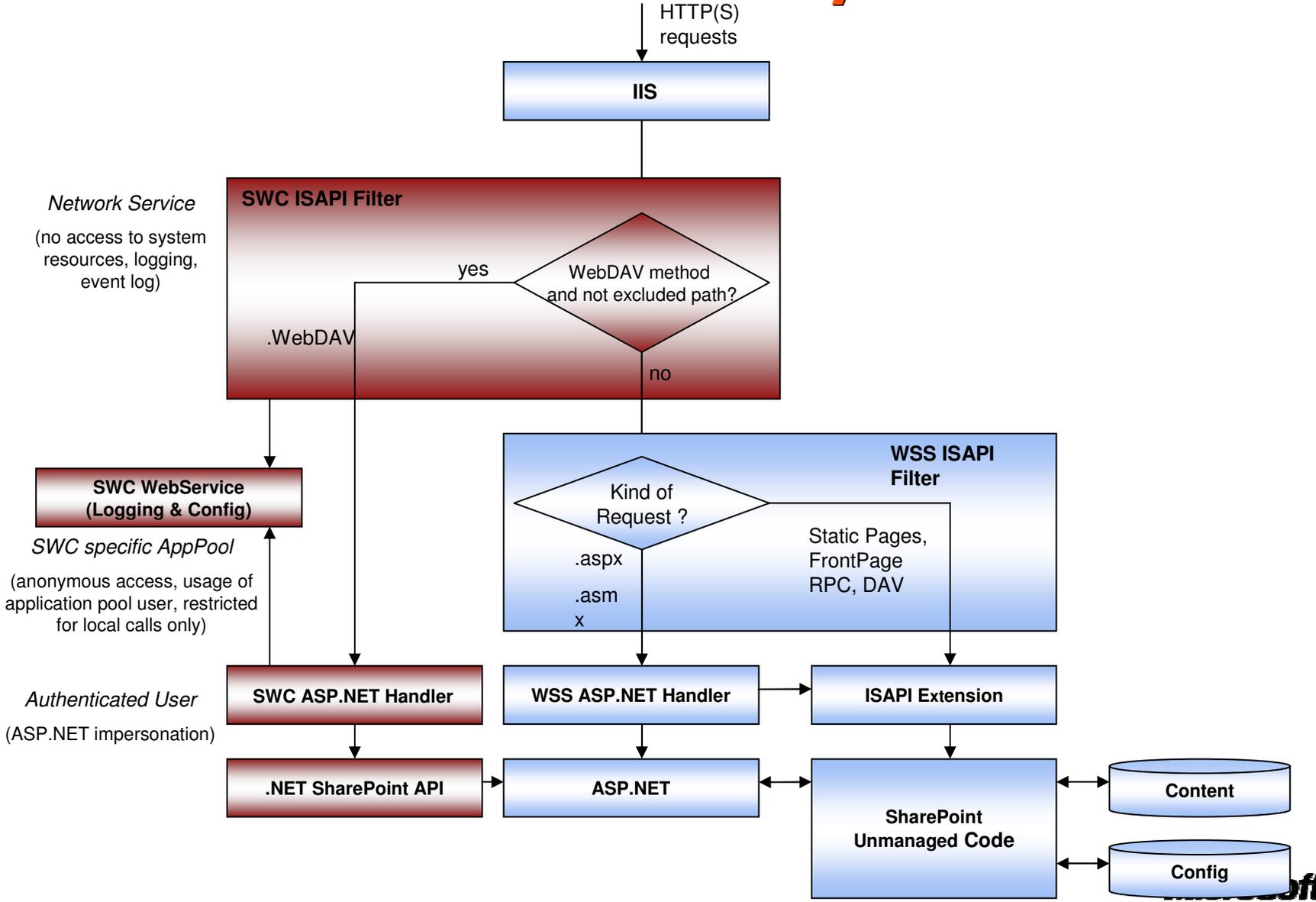
Architecture – Overview

- Extending architecture of Windows SharePoint Services
- Completely new WebDAV stack
- Based on IIS 6.0 and Windows Server 2003
- Written in C#/C++ for highest possible performance

Architecture - Original



Architecture - Extension by SWC





Features of Windows SharePoint Services Connector for WebDAV



Key Features

- Full access to all Windows SharePoint Services based document libraries
- Full support for custom properties / meta data
- Full support for Windows SharePoint Services' versioning capabilities
- Transparent access to documents
 - SAP EP user don't even see if the document repository is a SharePoint or Exchange based one



Authentication

- Full integration of authentication methods between SAP EP and Windows SharePoint Services / IIS
 - NTLM
 - Basic w/wo SSL
 - Kerberos
 - Certificates
 - Single Sign On
 - Cross Domain Single Sign On
 - SAP EP based individual user mapping
 - SAP EP based one-for-all user mapping



Integration Capabilities

- Transfer operations between different document repositories
 - Possibility to transfer documents from Exchange public folders to Windows SharePoint Services based document libraries
- Optional support for WebDAV drafts offering significant performance enhancements when used in conjunction with SAP EP
- All WebDAV enhancements from SWC may be used from any WebDAV based client / application, not only from SAP EP
- Of course: no replication mechanism of document data



Installation and Administration

- GUI for installation, maintenance & configuration
- Non-destructive installation may be used in parallel with Windows SharePoint Services' internal WebDAV server stack
- Detailed administration settings
- Familiar GUI modeled on the GUI of Windows SharePoint Services
- No additional skills required
- Sophisticated filter-based configuration which client requests should be answered by SWC and which by Windows' SharePoint Services' default implementation



Constraints

Technical Constraints 1

- Focus of SWC are documents
 - Access to SharePoint based **documents** and **document libraries**
 - SharePoint lists like contacts, events, discussions or surveys are **not** supported.
- Limited GUI integration
 - Full read/write access to SharePoint documents
 - Full read/write access to SharePoint meta data / custom properties
 - iView based HTML rendering of these data has some restrictions
 - A full iView based integration can be done by **developing** a custom iView for SAP EP
 - GUI limitations apply also to Exchange
- Unnecessary versions may be created
 - SAP EP requires to store the DAV:owner property when checking out documents
 - Storing the property requires to checkin the document and then recheckout, thereby creating new versions
 - This behavior occurs only if the DAV:owner property differs from the current NT-username

Technical Constraints 2

- Other constraints
 - If read-only users should be able to access a SharePoint site's root, he must have the site group permission *Browse Directories*. This permission is not activated in the default reader site group.
 - The first lock / checkout operation inside a document library must be done by a user with the SharePoint web designer role to create a custom property in the document library.
 - No locking / versioning operations for collection resources, but still full WebDAV compliance.
 - No support for arbitrary properties but full read-/write-access to SharePoint meta data and still full WebDAV compliance.
 - Some special arbitrary properties may be emulated as *ghost properties*. They always return a constant value and behave as if they were writable.
 - Minor constraints for COPY / MOVE operation on cross site operations regarding property and version persistence because of SharePoint specific constraints.



Overcoming GUI limitations

- No need for specific Windows SharePoint Services know-how
- No need for specific WebDAV know-how
- Only knowledge of SAP EP's Repository Manager Framework needed
- Usage of a single API to access different repositories



Roadmap – History and Future



Roadmap & Availability

- Planned pricing & licensing:
 - SWC will be available for free through MSDN
 - Details in SWC's End User License Agreement (EULA)
- Planned releases
 - BETA-1: August 2005 ✓
 - BETA-2: September 2005 ✓
 - BETA-3: November 2005 ✓
 - RC-1: May 2006 ✓
 - RTM: June 2006



Additional information

Additional information

- Whitepaper 1:

How to integrate Microsoft Exchange
into SAP Enterprise Portal

<https://www.sdn.sap.com/irj/servlet/prt/portal/prtroot/docs/library/uuid/a46c209d-0601-0010-2089-f0c967d1199a>

Easiest way to find:

Perform an advanced search on <http://sdn.sap.com> for author Draken or Vogt.

- Whitepaper 2:

SharePoint WebDAV Connector
How to integrate Microsoft Windows SharePoint Services
and Microsoft Exchange
into SAP Enterprise Portal

(will be available as soon as SWC is released as product)

<http://sdn.sap.com/to-be-done>
<http://www.microsoft-sap.com/to-be-done>

- SAP Press:

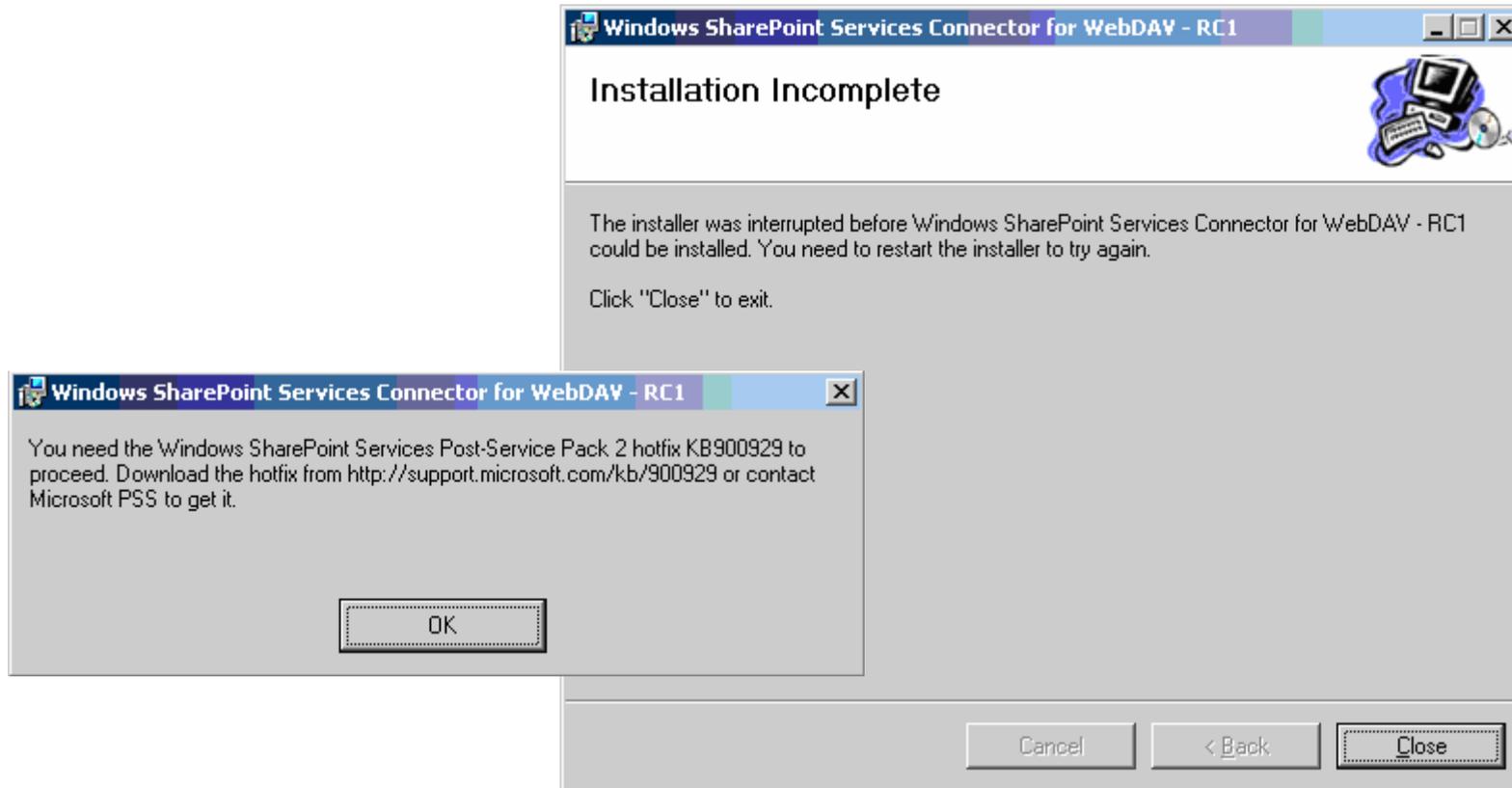
Integration von SAP NetWeaver und Microsoft .NET
(A. Rohr, T. Meigen, A. Fischer; should be available in June 2006)



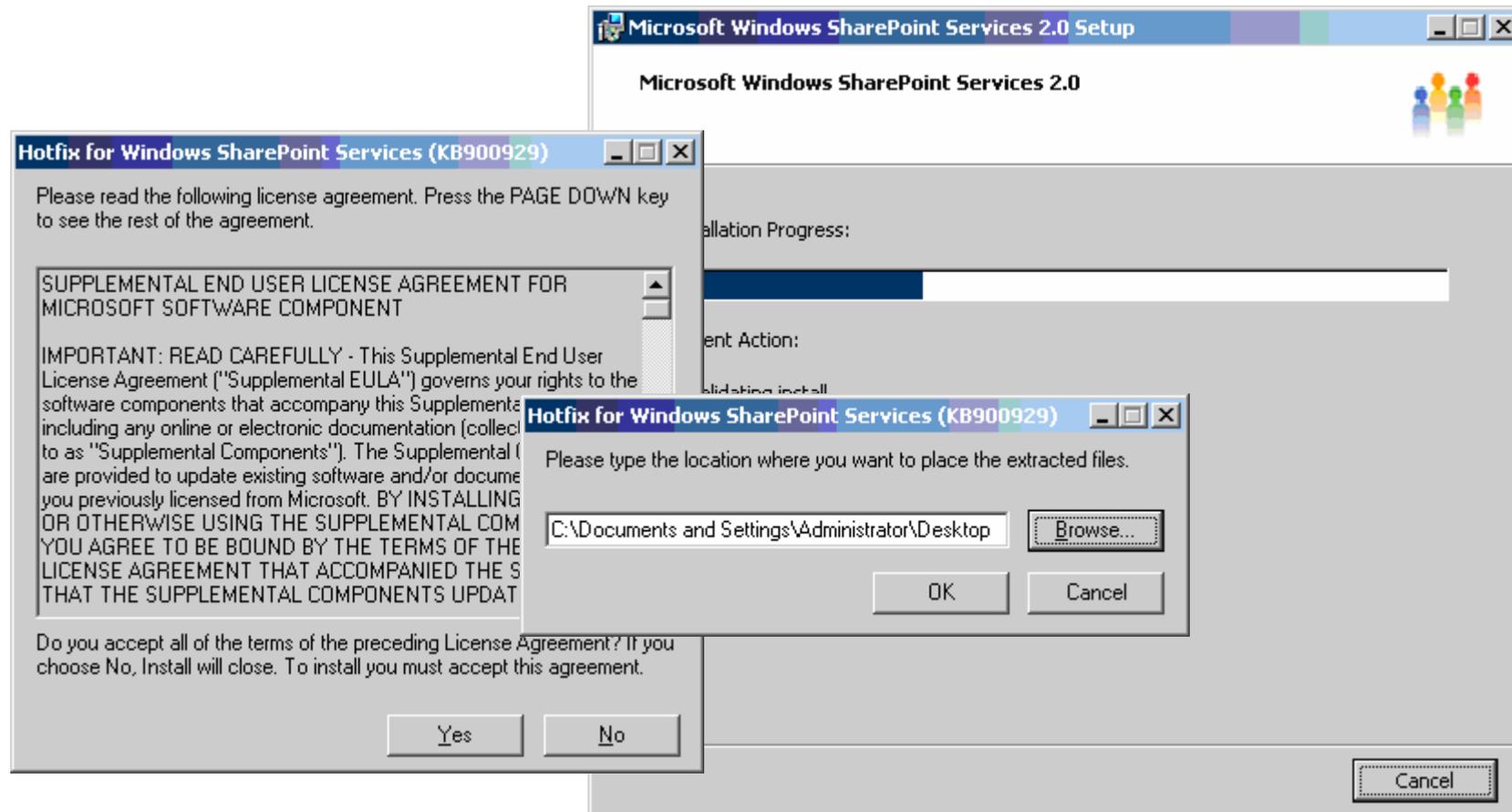
- Demo -

**Installation of
Windows SharePoint Services
Connector for WebDAV**

Installation without hotfix KB900929 for WSS



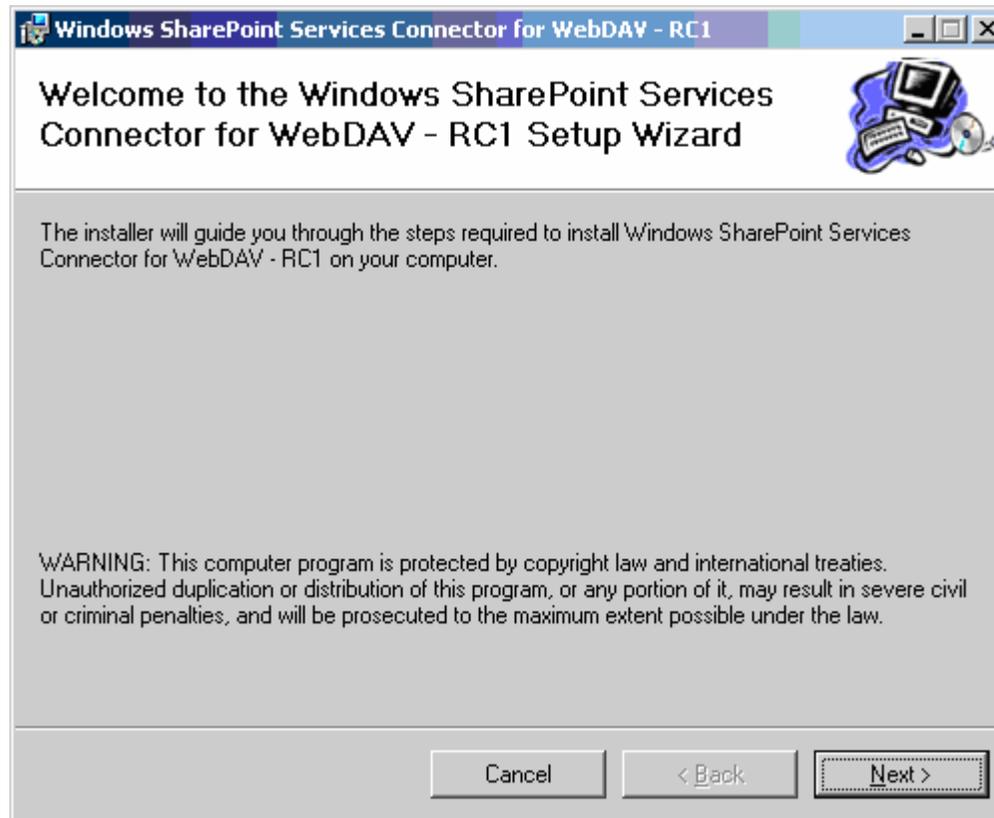
Installation of hotfix KB900929 for WSS



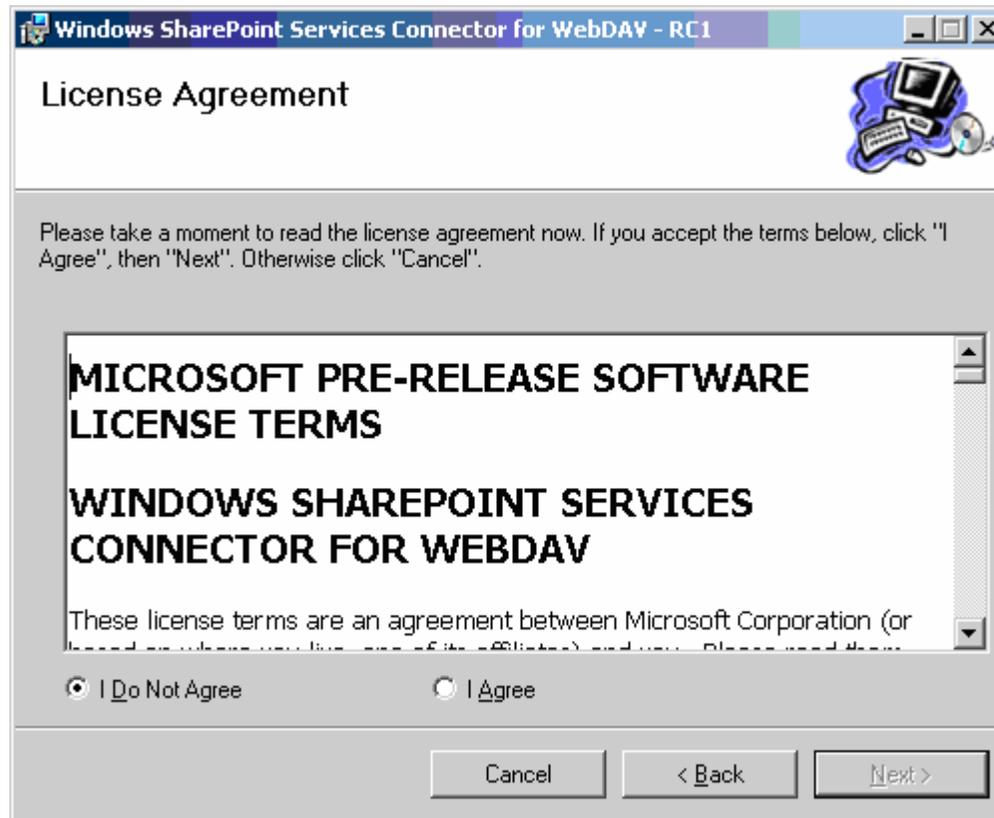
This will extract two files:

- STS_readme.txt: additional information about installing the hotfix
- STS.msp: hotfix package; double-click to apply

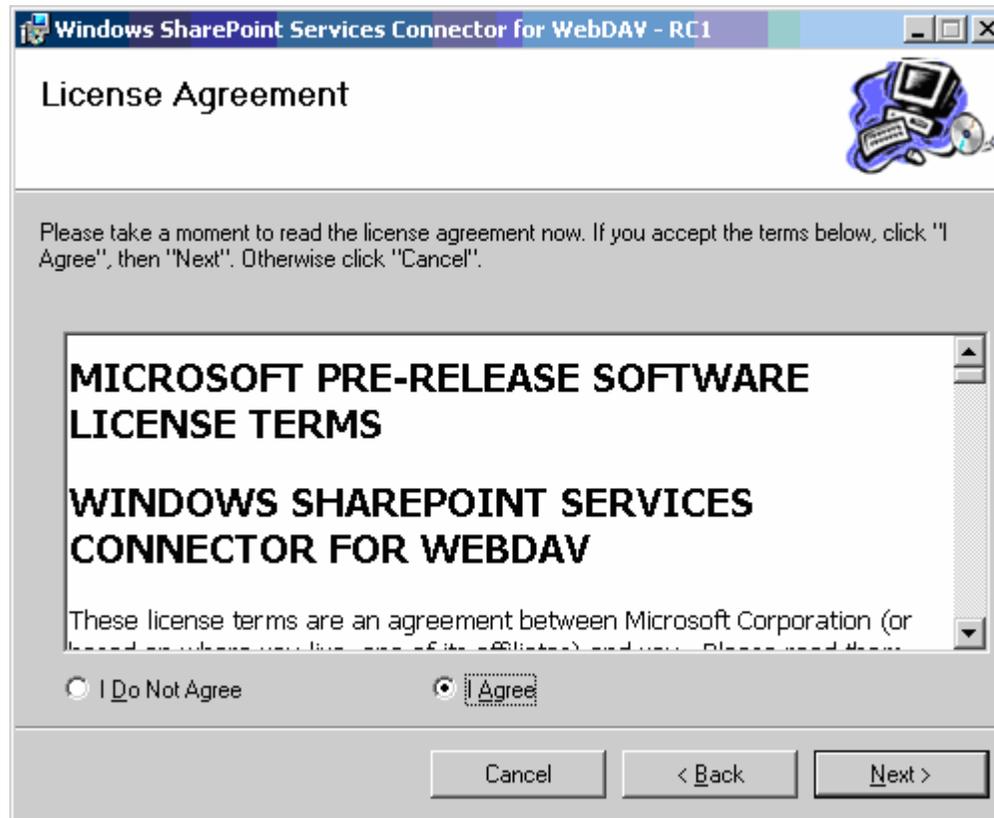
Installation of SWC



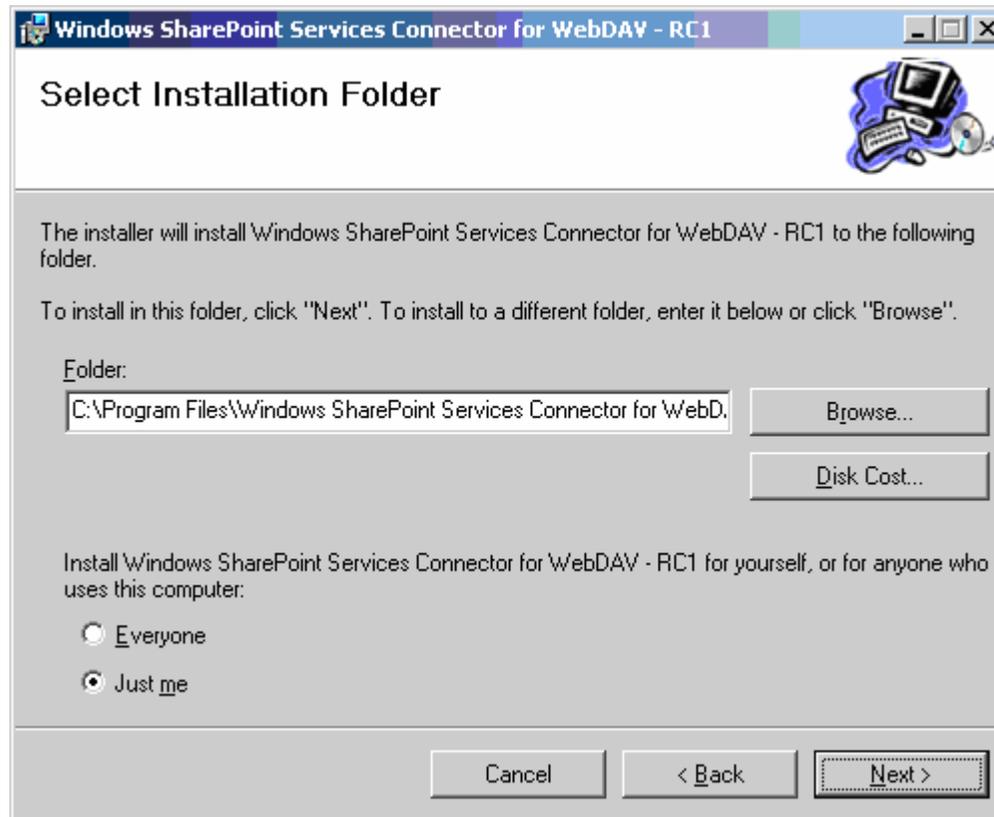
Installation of SWC



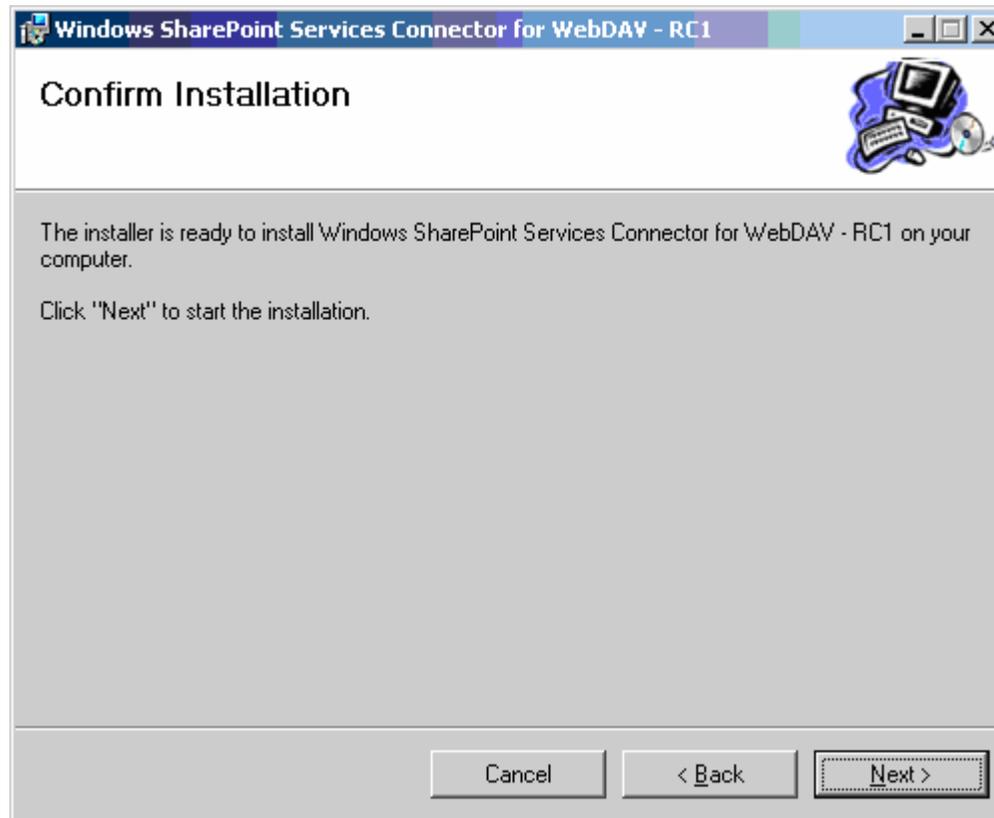
Installation of SWC



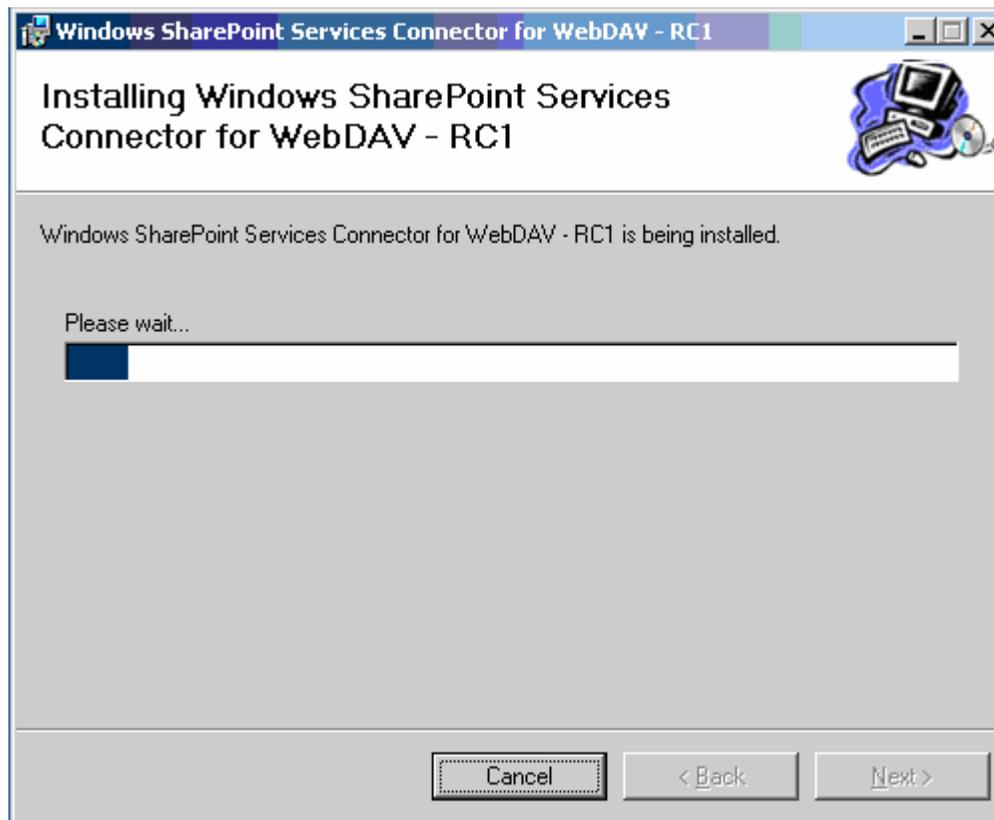
Installation of SWC



Installation of SWC



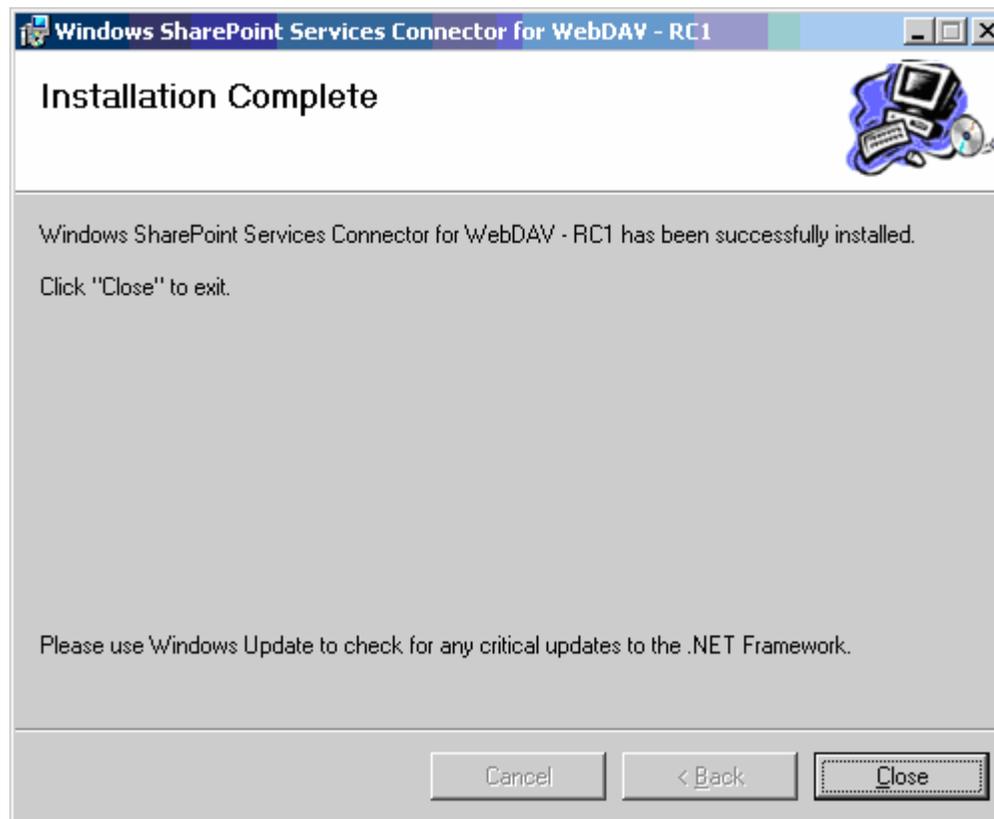
Installation of SWC



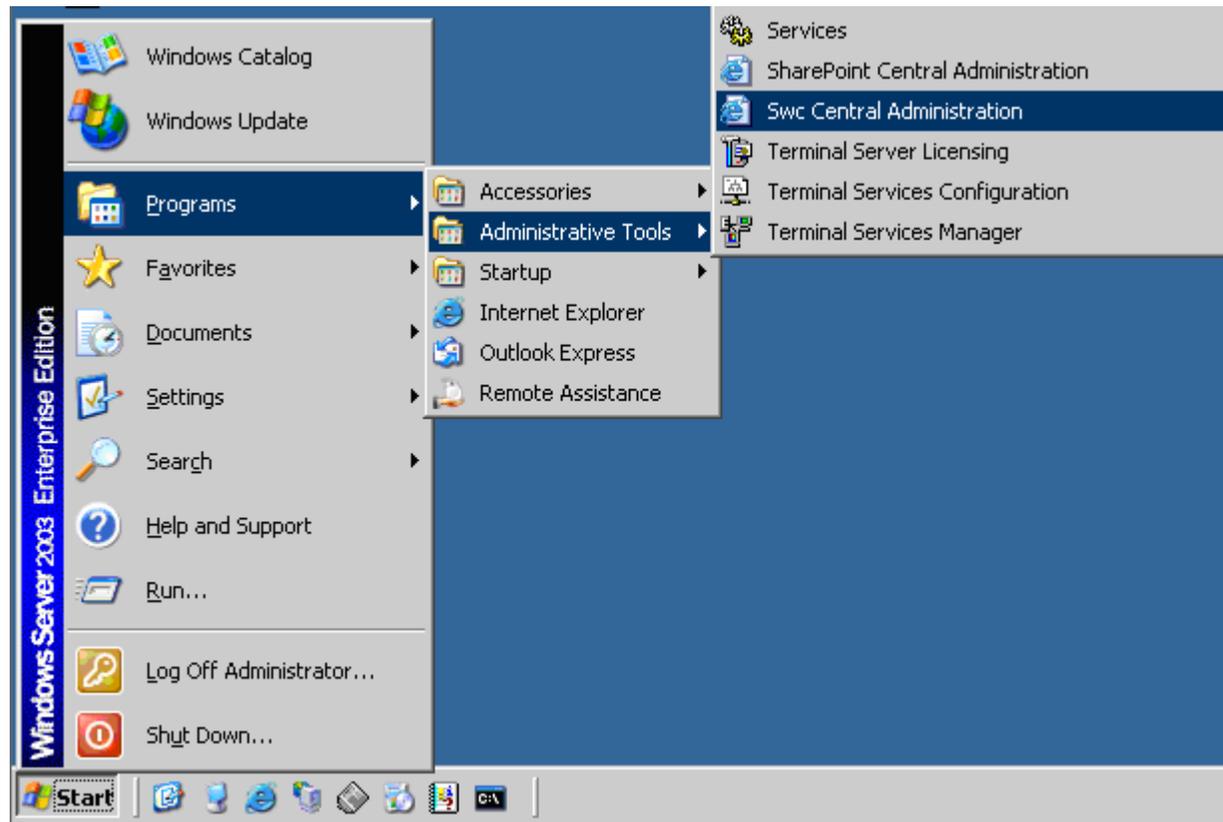
Installation of SWC



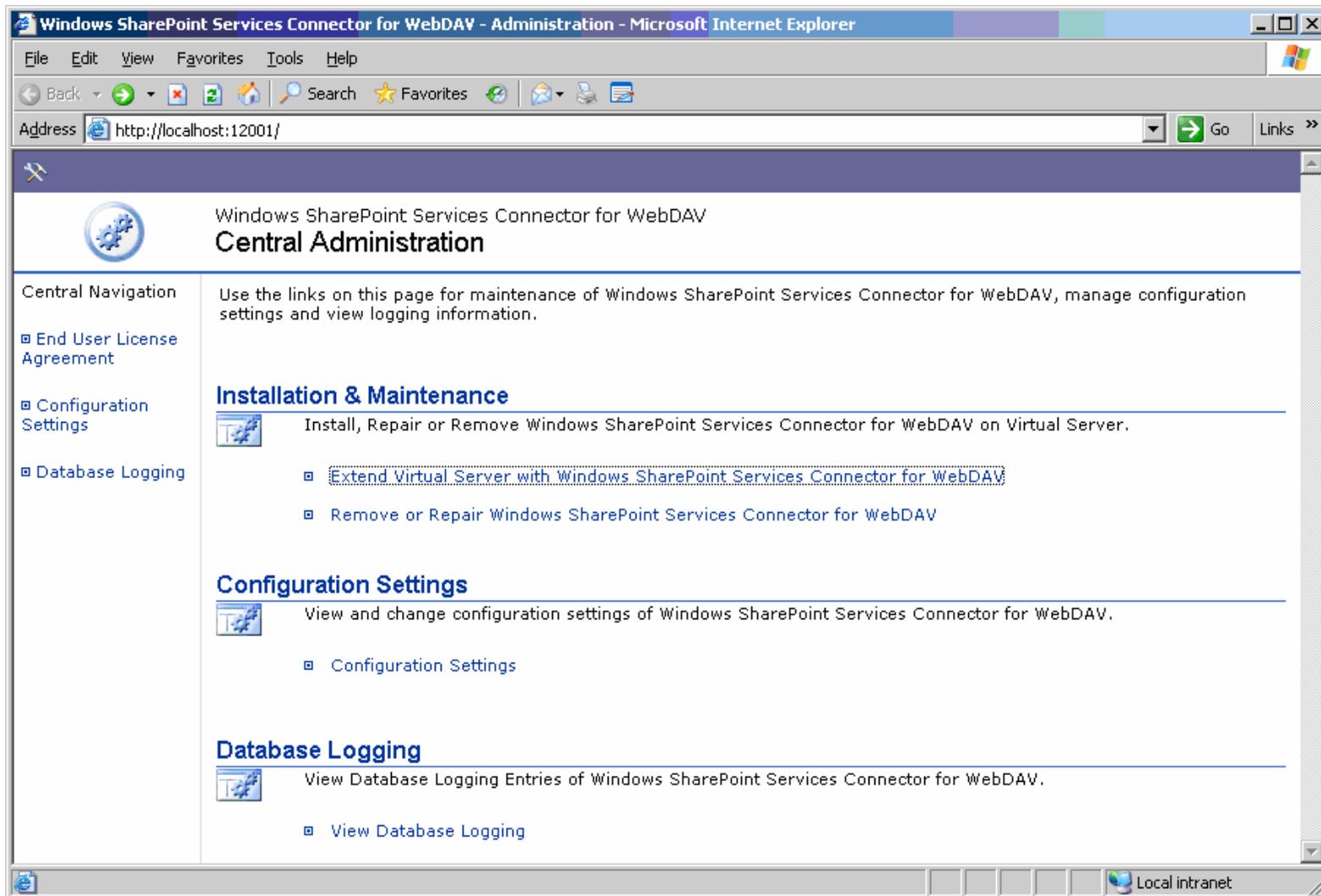
Installation of SWC



Extending a virtual server with SWC



Extending a virtual server with SWC



Extending a virtual server with SWC

Windows SharePoint Services Connector for WebDAV - Installation V\$List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail

Address <http://localhost:12001/ExtendList.aspx?Operation=1> Go Links >>

Windows SharePoint Services Connector for WebDAV
Virtual Server List

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

To perform maintenance tasks for a virtual server, click the virtual server name. To view all virtual servers for this server computer, go to the [complete list](#).

Extend Virtual Server with Windows SharePoint Services Connector for WebDAV

Name	URL	Filter Version	Handler Version	Status	IIS Instance ID
Default Web Site	http://swcref/	Not Installed	Not Installed	Not Extended	1

Local intranet

Extending a virtual server with SWC

Windows SharePoint Services Connector for WebDAV
Extend Virtual Server

Use this page to extend a virtual server with Windows SharePoint Services Connector for WebDAV

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

Current Virtual Server

Note the current virtual server name. To change virtual servers, go to the [Choose Virtual Server](#) page.

Virtual Server Name:	Default Web Site
URL:	http://swcref/
Filter Version:	Not Installed
Handler Version:	Not Installed
Status:	Not Extended
IIS Instance ID:	1

Extending Virtual Server

Use the **OK button** to start extending this Virtual Server with Windows SharePoint Services Connector for WebDAV. This operation will install the SwcFilter and the SwcHandler.

Click the **Cancel button** to abort the operation.

OK Cancel

Extending a virtual server with SWC

The screenshot shows a web browser window titled "Windows SharePoint Services Connector for WebDAV - Installation Options - Microsoft Internet Explorer". The address bar shows the URL: `http://localhost:12001/ExtendOptions.aspx?Url=http%3a%2f%2fswcref%2f&Operation=1`. The page content includes a navigation menu on the left with items like "End User License Agreement", "Administration", "Configuration Settings", and "Database Logging". The main content area is titled "Extend Virtual Server" and contains instructions for extending a virtual server. A table displays the current virtual server details, and a section titled "Extending Virtual Server" provides instructions on using the OK and Cancel buttons. A red warning message states: "To extend this Virtual Server with Windows SharePoint Services Connector for WebDAV, the IIS Web Site will be automatically stopped - and restarted after the operation completes. Please confirm by clicking the OK button again. To abort, click the Cancel button." At the bottom right, there are "OK" and "Cancel" buttons.

Windows SharePoint Services Connector for WebDAV
Extend Virtual Server

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

Use this page to extend a virtual server with Windows SharePoint Services Connector for WebDAV

Current Virtual Server	Virtual Server Name:	Default Web Site
Note the current virtual server name. To change virtual servers, go to the Choose Virtual Server page.	URL:	<code>http://swcref/</code>
	Filter Version:	Not Installed
	Handler Version:	Not Installed
	Status:	Not Extended
	IIS Instance ID:	1

Extending Virtual Server

Use the **OK button** to start extending this Virtual Server with Windows SharePoint Services Connector for WebDAV. This operation will install the SwcFilter and the SwcHandler.

Click the **Cancel button** to abort the operation.

To extend this Virtual Server with Windows SharePoint Services Connector for WebDAV, the IIS Web Site will be automatically stopped - and restarted after the operation completes.

Please confirm by clicking the OK button again.

To abort, click the Cancel button.

OK Cancel

Extending a virtual server with SWC

Windows SharePoint Services Connector for WebDAV - Installation V\$List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address <http://localhost:12001/ExtendList.aspx?Operation=0&task=Extending%20Virtual%20Server&success=true> Go Links >>

Windows SharePoint Services Connector for WebDAV
Virtual Server List

Central Navigation To perform maintenance tasks for a virtual server, click the virtual server name.

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

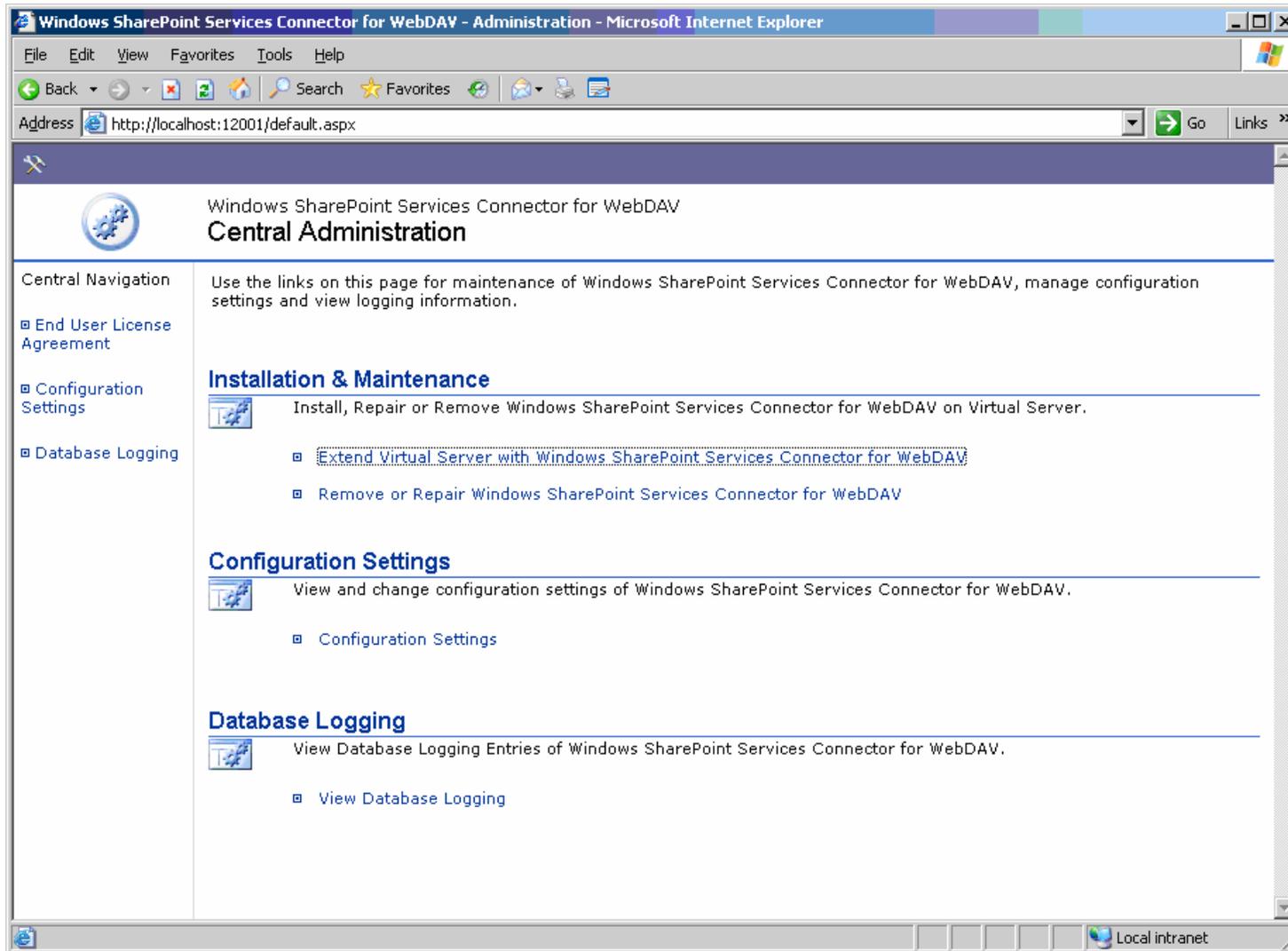
Extending Virtual Server: successful.

Complete List

Name	URL	Filter Version	Handler Version	Status	IIS Instance ID
Default Web Site	http://swcref/	1.0.0.0	1.0.2315.14795	Extended	1

Done Local intranet

Extending a virtual server with SWC



The screenshot shows a Microsoft Internet Explorer browser window displaying the administration page for the Windows SharePoint Services Connector for WebDAV. The address bar shows the URL <http://localhost:12001/default.aspx>. The page title is "Windows SharePoint Services Connector for WebDAV - Administration - Microsoft Internet Explorer".

The main content area is titled "Central Administration" and includes a navigation sidebar on the left with the following items:

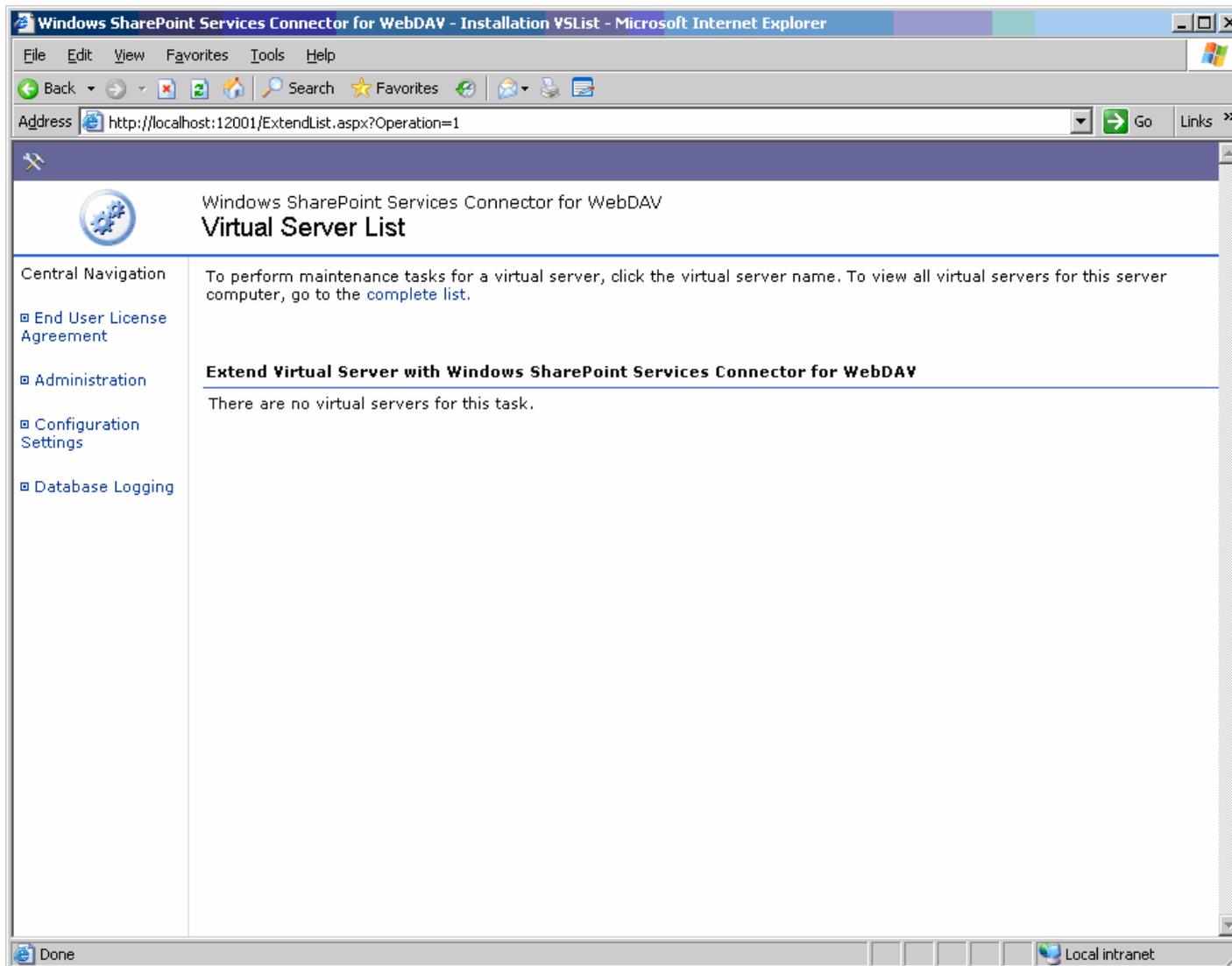
- End User License Agreement
- Configuration Settings
- Database Logging

The main content area is divided into three sections:

- Installation & Maintenance**: Install, Repair or Remove Windows SharePoint Services Connector for WebDAV on Virtual Server.
 - [Extend Virtual Server with Windows SharePoint Services Connector for WebDAV](#)
 - [Remove or Repair Windows SharePoint Services Connector for WebDAV](#)
- Configuration Settings**: View and change configuration settings of Windows SharePoint Services Connector for WebDAV.
 - [Configuration Settings](#)
- Database Logging**: View Database Logging Entries of Windows SharePoint Services Connector for WebDAV.
 - [View Database Logging](#)

The status bar at the bottom right of the browser window shows "Local intranet".

Extending a virtual server with SWC



Extending a virtual server with SWC

Windows SharePoint Services Connector for WebDAV
Virtual Server List

Central Navigation
To perform maintenance tasks for a virtual server, click the virtual server name.

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

Complete List						
Name	URL	Filter Version	Handler Version	Status	IIS Instance ID	
Default Web Site	http://swcref/	1.0.0.0	1.0.2315.14795	Extended	1	

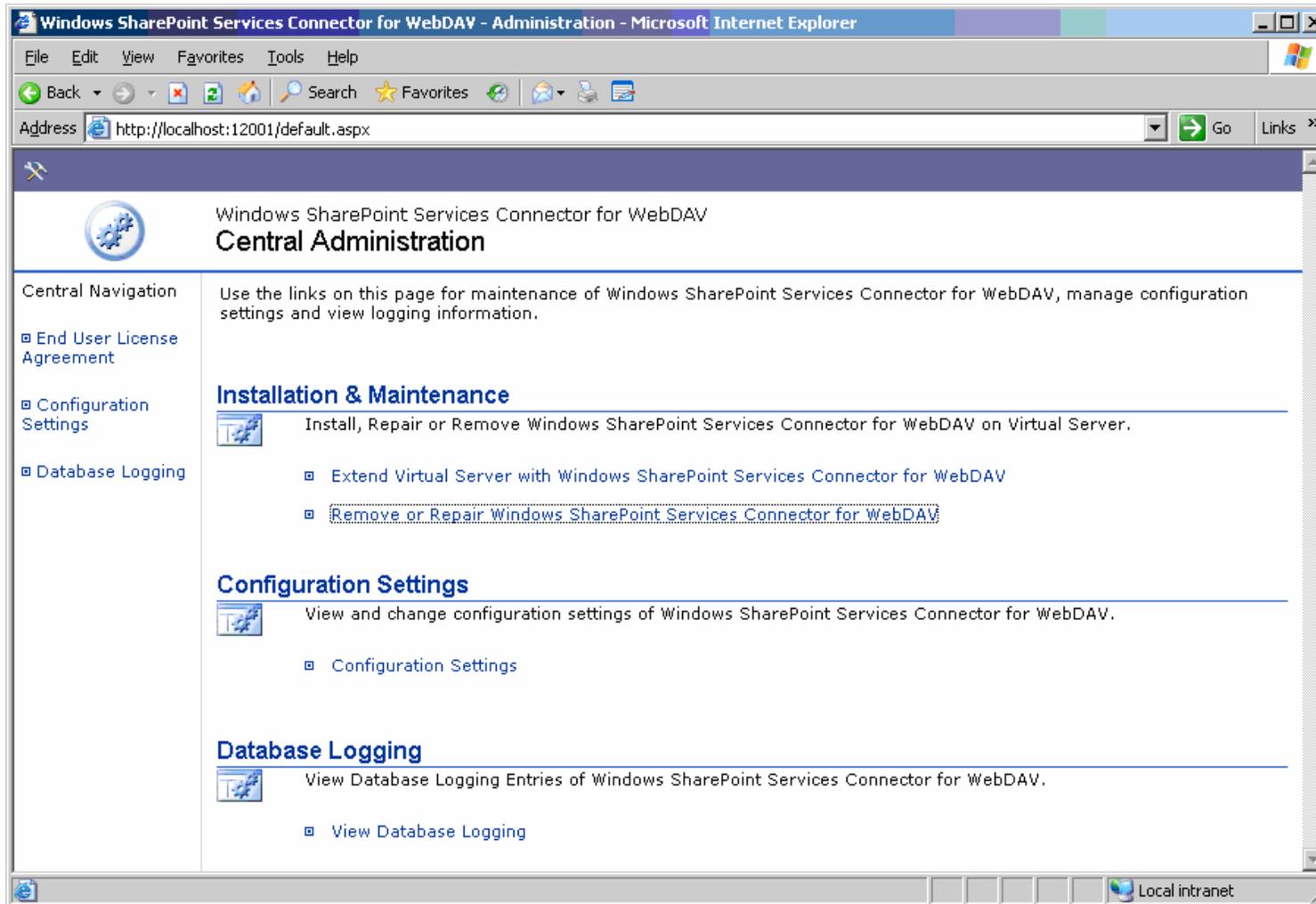
Done Local intranet



-Demo -

**Administering Windows SharePoint Services
Connector for WebDAV**

Refreshing Configuration



The screenshot shows the 'Windows SharePoint Services Connector for WebDAV - Administration' page in Microsoft Internet Explorer. The browser's address bar shows 'http://localhost:12001/default.aspx'. The page title is 'Windows SharePoint Services Connector for WebDAV Central Administration'. The main content area is divided into sections: 'Installation & Maintenance', 'Configuration Settings', and 'Database Logging'. Each section contains a description and a list of links for further actions.

Windows SharePoint Services Connector for WebDAV
Central Administration

Central Navigation
Use the links on this page for maintenance of Windows SharePoint Services Connector for WebDAV, manage configuration settings and view logging information.

- End User License Agreement
- Configuration Settings
- Database Logging

Installation & Maintenance
Install, Repair or Remove Windows SharePoint Services Connector for WebDAV on Virtual Server.

- Extend Virtual Server with Windows SharePoint Services Connector for WebDAV
- Remove or Repair Windows SharePoint Services Connector for WebDAV

Configuration Settings
View and change configuration settings of Windows SharePoint Services Connector for WebDAV.

- Configuration Settings

Database Logging
View Database Logging Entries of Windows SharePoint Services Connector for WebDAV.

- View Database Logging

Local intranet

Database Logging



Windows SharePoint Services Connector for WebDAV View Database Logging

Central Navigation View logging information for Windows SharePoint Services Connector for WebDAV.

End User License Agreement

Administration

Configuration Settings

Filter

Select filter criteria for logging data (SQL-Where clause)
Each criterion is combined by a logical AND.

Column:	Operator:	Criteria:	Values:
[select value] v	= v	<input type="text"/>	[select value] v
[select value] v	= v	<input type="text"/>	[select value] v
[select value] v	= v	<input type="text"/>	[select value] v
[select value] v	= v	<input type="text"/>	[select value] v
[select value] v	= v	<input type="text"/>	[select value] v

Page Size:

Data

Date	Time	User	Instance	Category	Type	Level	Code	Text	Function	SourceFile	Line
1											

Configuration Overview



Windows SharePoint Services Connector for WebDAV Configuration Settings

Central Navigation

▣ End User License Agreement

▣ Administration

▣ Database Logging

View and edit configuration settings for Windows SharePoint Services Connector for WebDAV.

Logging



Configuration for different logging destinations.

▣ View and edit Logging settings

Filter



The filter specifies which HTTP requests will be redirected to the handler of Windows SharePoint Services Connector for WebDAV.

▣ View and edit Filter settings

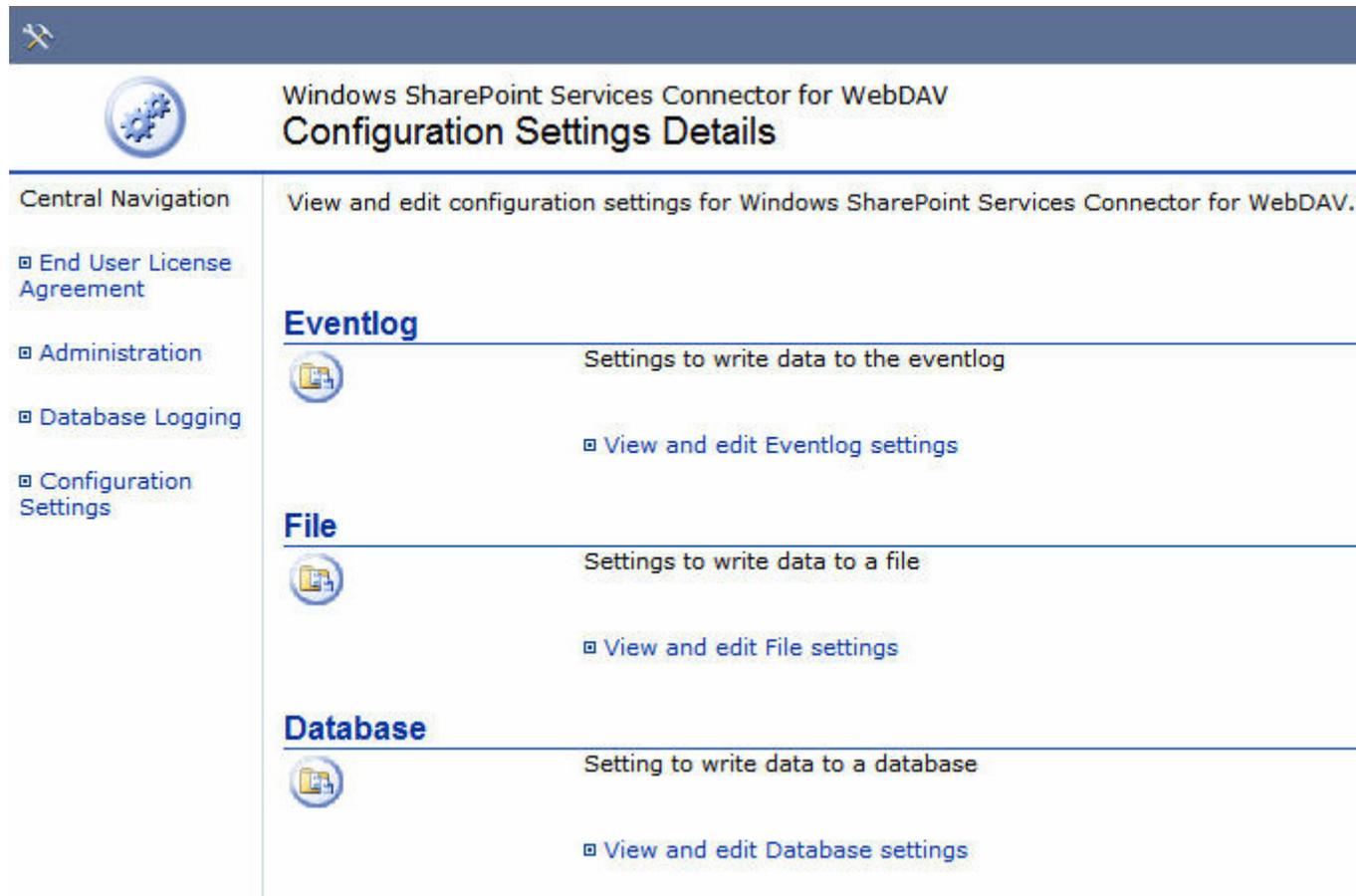
Handler



The handler processes the WebDAV requests.

▣ View and edit Handler settings

Configuration – Logging



The screenshot shows the configuration interface for the Windows SharePoint Services Connector for WebDAV. The page title is "Windows SharePoint Services Connector for WebDAV Configuration Settings Details". The left sidebar contains a "Central Navigation" menu with the following items: End User License Agreement, Administration, Database Logging, and Configuration Settings (which is currently selected). The main content area displays three configuration sections: "Eventlog", "File", and "Database". Each section includes a description and a link to "View and edit" settings.

  Windows SharePoint Services Connector for WebDAV
Configuration Settings Details

Central Navigation

- ▣ End User License Agreement
- ▣ Administration
- ▣ Database Logging
- ▣ Configuration Settings

View and edit configuration settings for Windows SharePoint Services Connector for WebDAV.

Eventlog

 Settings to write data to the eventlog

- ▣ View and edit Eventlog settings

File

 Settings to write data to a file

- ▣ View and edit File settings

Database

 Setting to write data to a database

- ▣ View and edit Database settings

Configuration – Filter



Windows SharePoint Services Connector for WebDAV Configuration Settings Details

Central Navigation

- ▣ End User License Agreement
- ▣ Administration
- ▣ Database Logging
- ▣ Configuration Settings

View and edit configuration settings for Windows SharePoint Services Connector for WebDAV.

IP address, host name and user agent restrictions



IMPORTANT: all requests will be redirected to the handler of Windows SharePoint Services Connector for WebDAV if no filter is enabled.

- ▣ View and edit IP address, host name and user agent restrictions settings

Redirection (read only)



Specification of HTTP / WebDAV requests that will be processed by the Windows SharePoint Services Connector for WebDAV.

- ▣ View and edit Redirection settings

Configuration – Client Restrictions 1/2

The screenshot shows the configuration interface for the Windows SharePoint Services Connector for WebDAV. The page title is "Configuration Settings Details". On the left is a central navigation pane with the following items: End User License Agreement, Administration, Database Logging, Configuration Settings, and [Filter]. The main content area is titled "View and edit configuration settings for Windows SharePoint Services Connector for WebDAV." and contains several sections:

- Link**: A section with a gear icon. It shows "Current value: AND" and a dropdown menu for "Change value:" with "AND" selected.
- Enable IP address filter**: A section with a gear icon. It shows "Current value: No" and radio buttons for "Change value:" with "No" selected.
- IP addresses**: A section with a list icon. It includes a "Remove selected values" link, two checkboxes for "172.16.4.97" and "172.16.4.107", and an "Add new value:" input field with an "Add" button.
- Enable host name filter**: A section with a gear icon. It includes an "IMPORTANT:" notice with four numbered points, "Current value: No", and radio buttons for "Change value:" with "No" selected.

Configuration –Client Restrictions 2/2

Host names



Remove selected values

sapep.comma-soft.com

sapep

Add new value:

Enable user agent (browser) filter



Current value: No

Change value: Yes No

User agents (browsers)



Remove selected values

SAP CM WebDAV Repository 1.1

Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR 1.1.4322)

Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.2; .NET CLR 1.1.4322)

Add new value:

OK

Cancel

Configuration –Handler Overview




Windows SharePoint Services Connector for WebDAV
Configuration Settings Details

Central Navigation

- ▣ End User License Agreement
- ▣ Administration
- ▣ Database Logging
- ▣ Configuration Settings

View and edit configuration settings for Windows SharePoint Services Connector for WebDAV.

Headers



Settings for handling of several HTTP headers.

- ▣ View and edit Headers settings

Properties



Settings for support of several property sets.

- ▣ View and edit Properties settings

Versioning



Settings for several versioning options.

- ▣ View and edit Versioning settings

Advanced options



Miscellaneous settings for the handler.

- ▣ View and edit Advanced options settings

Sample configuration page 1/2



 Windows SharePoint Services Connector for WebDAV
Configuration Settings Details

Central Navigation View and edit configuration settings for Windows SharePoint Services Connector for WebDAV.

- End User License Agreement
- Administration
- Database Logging
- Configuration Settings
- [Handler]

Support additional collection properties

 Support additional WebDAV collection properties described in 'draft-hopmann-collection-props-00.txt'.

Current value: Yes

Change value: Yes No

Support include extension for PROPFIND/allprop requests

 Support of including additional properties in WebDAV PROPFIND/allprop requests as described in 'draft-reschke-webdav-allprop-include-06.txt'. This feature can be used by the collaborating WebDAV client to reduce the number of PROPFIND requests significantly.

Current value: Yes

Change value: Yes No

Support replication properties

 Support properties from Microsoft's replication namespace.

Current value: Yes

Change value: Yes No

Use web title as display name for their root folders

 A root folder of a web has an empty name. Therefore, the title of its web can be used as display name.

Current value: No

Change value: Yes No

Placeholder for empty property values

 Properties which do not belong to the DAV namespace and have empty values can also use this value to indicate that its value should be empty. This is useful for client applications which can not handle properties with empty values and expect them not to exist in this situation.

Current value: #EMPTY#

Change value:

Sample configuration page 2/2

Property flags



Support of property flags / attributes to indicate if property values are protected / read-only or hidden.

▣ View and edit Property flags settings

SharePoint properties



Usage of columns from SharePoint document libraries.

▣ View and edit SharePoint properties settings

Document library properties



Properties for enhanced handling of document libraries.

▣ View and edit Document library properties settings

Integration properties



Properties for enhanced integration scenarios.

▣ View and edit Integration properties settings

Office properties



Usage of properties from Microsoft's office namespace.

▣ View and edit Office properties settings

WebDAV element mapping



Mapping of specific WebDAV elements to columns from SharePoint document libraries.

▣ View and edit WebDAV element mapping settings

Ghost properties



Ghost properties can be modified for files or folders but their values will not be stored and they always return a constant value. This feature enhances compatibility to WebDAV clients which include several properties in PROPPATCH requests which can not be stored in SharePoint and are not essential so they can be ignored. Otherwise the whole PROPPATCH request would fail because of these properties. On setting a property which does not belong to the DAV namespace, it will be checked first, if this property is configured as a ghost property.

▣ View and edit Ghost properties settings

OK

Cancel





**-Demo -
Configuration in
SAP Enterprise Portal**

Creation of WebDAV Repository Manager

The screenshot displays a web application interface with a blue header and a light blue sidebar. The header includes navigation tabs for 'Content Administration', 'User Administration', and 'System Administration', with 'System Administration' selected. Below the header is a secondary navigation bar with links for 'Transport', 'Monitoring', 'Permissions', 'System Configuration', 'Portal Display', 'Support', 'Global Portal', 'Distributed Query Engine', and 'Navigation'. The main content area is titled 'Content Management' and features a 'Detailed Navigation' sidebar on the left. This sidebar lists various system components, with 'Content Management' highlighted under 'Knowledge Management'. Below the sidebar are sections for 'Related Links' (Repositories, Component Monitor, CM Repository Reports) and 'Portal Favorites' (KM-Content). The main content area contains a 'Topic Area' with links for 'Configuration', 'Content Management', and 'Subareas'. The 'Subareas' list includes 'Form-Based Publishing', 'Global Services', 'Protocols', 'Repository Filters', 'Repository Managers', 'Repository Services', 'User Interface', and 'Utilities'. The main content area also features a 'Content Management' section with a description: 'The configuration of Content Management includes several areas. You can connect to different data sources using repository managers, set up various services and filters, and customize the user interface.' Below this description is a list of subareas with brief descriptions: 'Form-Based Publishing' (Settings for form-based publishing applications), 'Global Services' (Provide functionality for all repositories), 'Protocols' (Used for accessing content and metadata), 'Repository Filters' (Manipulate the content, properties, and presentation of documents), 'Repository Managers' (Provide uniform access to internal and external data sources), and 'Repository Services' (Provide functionality for individual repositories).

Content Administration | User Administration | **System Administration**

Transport | Monitoring | Permissions | **System Configuration** | Portal Display | Support | Global Portal | Distributed Query Engine | Navigation

Content Management | History | Back | Forward

Detailed Navigation

- System Landscape
- System Landscape Overview
- Keystore Administration
- UM Configuration
- Service Configuration
- Knowledge Management
 - Content Management**
 - Collaboration
 - Index Administration
- Universal Worklist & Workflow
 - Web Dynpro Console

Related Links

- Repositories
- Component Monitor
- CM Repository Reports

Portal Favorites

- KM-Content

Content Management

Actions | History | Mode | Help

Topic Area:

- [Configuration](#)
- [Content Management](#)
- Subareas**
 - [Form-Based Publishing](#)
 - [Global Services](#)
 - [Protocols](#)
 - [Repository Filters](#)
 - [Repository Managers](#)
 - [Repository Services](#)
 - [User Interface](#)
 - [Utilities](#)

Content Management

The configuration of Content Management includes several areas. You can connect to different data sources using repository managers, set up various services and filters, and customize the user interface.

Subareas

- [Form-Based Publishing](#)
Settings for form-based publishing applications
- [Global Services](#)
Provide functionality for all repositories
- [Protocols](#)
Used for accessing content and metadata
- [Repository Filters](#)
Manipulate the content, properties, and presentation of documents
- [Repository Managers](#)
Provide uniform access to internal and external data sources
- [Repository Services](#)
Provide functionality for individual repositories

Creation of HTTP system

The screenshot displays a web application interface for Content Management. At the top, there are navigation tabs for 'Content Administration', 'User Administration', and 'System Administration'. Below these are various menu items including 'Transport', 'Monitoring', 'Permissions', 'System Configuration', 'Portal Display', 'Support', 'Global Portal', 'Distributed Query Engine', and 'Navigation'. The main content area is titled 'Content Management' and features a 'Detailed Navigation' sidebar on the left. This sidebar includes sections for 'System Landscape', 'Knowledge Management', and 'Universal Worklist & Workflow'. The 'Content Management' subarea is expanded, showing options like 'Collaboration' and 'Index Administration'. The main content area has a 'Topic Area' section with links to 'Configuration', 'Content Management', and 'Global Services'. A warning message states 'Invalid areas: Property Structures'. Below this, the 'Global Services' section is detailed, including a description and a list of subareas: 'Crawler Parameters', 'Network Paths', 'Property Metadata', 'Property Structures', 'Resource Filters', 'Resource List Filters', 'Resource Types', 'Scheduler Tasks', and 'System Landscape Definitions'.

Content Administration | User Administration | **System Administration**

Transport | Monitoring | Permissions | **System Configuration** | Portal Display | Support | Global Portal | Distributed Query Engine | Navigation

Content Management | History | Back | Forward

Detailed Navigation

- System Landscape
- System Landscape Overview
- Keystore Administration
- UM Configuration
- Service Configuration
- Knowledge Management
 - Content Management**
 - Collaboration
 - Index Administration
- Universal Worklist & Workflow
 - Web Dynpro Console

Related Links

- Repositories
- Component Monitor
- CM Repository Reports

Portal Favorites

- KM-Content

Content Management

Actions | History | Mode | Help

Topic Area:

- [Configuration](#)
- [Content Management](#)
 - [Global Services](#)

Subareas

- [Crawler Parameters](#)
- [Network Paths](#)
- [Property Metadata](#)
- [Property Structures](#)
- [Resource Filters](#)
- [Resource List Filters](#)
- [Resource Types](#)
- [Scheduler Tasks](#)
- [System Landscape Definitions](#)
- [UserPhoto](#)

Global Services [Show Advanced Options](#)

Global services provide a variety of generic functions to be used with any repository. Since they offer ready-to-use functionality, there is generally no need to change their configuration settings.

Subareas

- [Crawler Parameters](#)
Crawlers Parameters
- [Network Paths](#)
Paths that are mounted by the Mount Service
- [Property Metadata](#)
Property definitions
- [Property Structures](#)
Structure information for displaying properties
- [Resource Filters](#)
Resource Filters filter resources
- [Resource List Filters](#)
Mappings of filters (Java classes) to alias names
- [Resource Types](#)
Properties such as descriptions and icons for resource types
- [Scheduler Tasks](#)
Scheduler tasks for the scheduler service
- [System Landscape Definitions](#)
Systems and Credentials

Invalid areas: Property Structures

Creation of HTTP system

The screenshot displays a web-based system administration interface. At the top, there are navigation tabs for 'Content Administration', 'User Administration', and 'System Administration'. Below these are various system management options like 'Transport', 'Monitoring', 'Permissions', 'System Configuration', 'Portal Display', 'Support', 'Global Portal', 'Distributed Query Engine', and 'Navigation'. The main content area is titled 'Content Management' and includes a 'Detailed Navigation' sidebar with a tree view. The tree view shows a hierarchy: 'System Landscape' > 'System Landscape Overview' > 'Keystore Administration' > 'UM Configuration' > 'Service Configuration' > 'Knowledge Management' > 'Content Management' (selected). Other sub-items include 'Collaboration', 'Index Administration', 'Universal Worklist & Workflow', and 'Web Dynpro Console'. Below the navigation sidebar are sections for 'Related Links' (Repositories, Component Monitor, CM Repository Reports) and 'Portal Favorites' (KM-Content). The main content area shows 'System Landscape Definitions' with a breadcrumb trail: 'Configuration' > 'Content Management' > 'Global Services' > 'System' > 'Landscape Definitions'. A 'Subareas' section lists 'Systems'.

Content Administration | User Administration | **System Administration**

Transport | Monitoring | Permissions | System Configuration | Portal Display | Support | Global Portal | Distributed Query Engine | Navigation

Content Management | History | Back

Detailed Navigation

- System Landscape
- System Landscape Overview
- Keystore Administration
- UM Configuration
- Service Configuration
- Knowledge Management
 - Content Management**
 - Collaboration
 - Index Administration
- Universal Worklist & Workflow
 - Web Dynpro Console

Related Links

- Repositories
- Component Monitor
- CM Repository Reports

Portal Favorites

- KM-Content

Content Management

Actions | History | Mode | Help

Topic Area:
[Configuration](#)
↳ [Content Management](#)
 ↳ [Global Services](#)
 ↳ [System](#)
 ↳ [Landscape Definitions](#)

Subareas
[Systems](#)

System Landscape Definitions
System Landscape Definitions - Systems and Credentials

Subareas
[Systems](#)

Systems

Creation of HTTP system

The screenshot displays a Microsoft Management Console (MMC) interface for system administration. The top navigation bar includes tabs for 'Content Administration', 'User Administration', and 'System Administration'. Below this, a secondary navigation bar lists various system components: 'Transport', 'Monitoring', 'Permissions', 'System Configuration', 'Portal Display', 'Support', 'Global Portal', 'Distributed Query Engine', and 'Navigation'. The main content area is titled 'Content Management' and features a 'Detailed Navigation' pane on the left. This pane lists several categories, with 'Content Management' expanded to show sub-items like 'System Landscape Overview', 'Keystore Administration', 'UM Configuration', 'Service Configuration', 'Knowledge Management', and 'Universal Worklist & Workflow'. The 'Systems' section in the main pane is active, displaying a tree view of the system hierarchy: 'Content Management' -> 'Global Services' -> 'System' -> 'Landscape Definitions' -> 'Systems'. The right-hand pane shows the configuration details for the selected system, including 'System Landscape Definitions - Systems' and a list of topics such as 'Content Management System', 'Default Proxy System', 'HTTP System', and 'Windows System'.

Content Administration | User Administration | **System Administration**

Transport | Monitoring | Permissions | System Configuration | Portal Display | Support | Global Portal | Distributed Query Engine | Navigation

Content Management | History | Back

Detailed Navigation

- System Landscape
- System Landscape Overview
- Keystore Administration
- UM Configuration
- Service Configuration
- Knowledge Management
 - Content Management**
 - Collaboration
 - Index Administration
- Universal Worklist & Workflow
 - Web Dynpro Console

Related Links

- Repositories
- Component Monitor
- CM Repository Reports

Content Management

Actions | History | Mode | Help

Topic Area:
[Configuration](#)
↳ [Content Management](#)
 ↳ [Global Services](#)
 ↳ [System](#)
 ↳ [Landscape](#)
 ↳ [Definitions](#)
 ↳ [Systems](#)

Topics
[Content Management System \(4\)](#)
[Default Proxy System \(1\)](#)
[HTTP System \(5\)](#)
[Windows System \(1\)](#)

Systems [Show Advanced Options](#)
System Landscape Definitions - Systems

Topics
[Content Management System](#)

[Default Proxy System](#)

[HTTP System](#)

[Windows System](#)

Creation of HTTP system

The screenshot displays the Microsoft Content Management System (CMS) administration interface. The top navigation bar includes 'Content Administration', 'User Administration', and 'System Administration'. The 'System Administration' section is active, showing sub-menus for 'Transport', 'Monitoring', 'Permissions', 'System Configuration', 'Portal Display', 'Support', 'Global Portal', 'Distributed Query Engine', and 'Navigation'. The main content area is titled 'Content Management' and features a 'Detailed Navigation' sidebar on the left. The sidebar lists various system components, with 'Content Management' highlighted under 'Knowledge Management'. The main content area shows the 'HTTP System' configuration page, which includes a 'Topic Area' with a breadcrumb trail: 'Configuration' > 'Content Management' > 'Global Services' > 'System' > 'Landscape' > 'Definitions' > 'Systems'. Below the breadcrumb trail, there are links for 'Content Management System (4)', 'Default Proxy System (1)', 'HTTP System (5)', and 'Windows System (1)'. The main content area also contains a table with columns for 'System ID', 'Description', 'Same User Domain', and 'Max Connections'. The table lists several systems, including 'swcdev', 'swcdev-1080', 'swcdev-UserMapping', 'swcger', and 'swceref'. Below the table, there are buttons for 'New', 'Duplicate', 'Edit', 'View', and 'Delete'.

Content Administration | User Administration | **System Administration**

Transport | Monitoring | Permissions | System Configuration | Portal Display | Support | Global Portal | Distributed Query Engine | Navigation

Content Management | History | Back | Forward

Detailed Navigation

- System Landscape
- System Landscape Overview
- Keystore Administration
- UM Configuration
- Service Configuration
- Knowledge Management
 - Content Management**
 - Collaboration
 - Index Administration
- Universal Worklist & Workflow
 - Web Dynpro Console

Related Links

- Repositories
- Component Monitor
- CM Repository Reports

Portal Favorites

- KM-Content

Content Management

Actions | History | Mode | Help

Topic Area:

[Configuration](#)

↳ [Content Management](#)

↳ [Global Services](#)

↳ [System](#)

↳ [Landscape](#)

↳ [Definitions](#)

↳ [Systems](#)

Topics

[Content Management System \(4\)](#)

[Default Proxy System \(1\)](#)

[HTTP System \(5\)](#)

[Windows System \(1\)](#)

HTTP System

On this page you define systems you want to access through Web repository managers or systems used by Web repository managers. If the system operates with the same user domain authentication for the portal will then be forwarded to the HTTP system. If the same document names for the server in URL form. If you enter username/password, all requests are made user mapping function of the portal will be used per individual user.

	System ID	Description	Same User Domain	Max Connections
<input type="checkbox"/>	swcdev			
<input type="checkbox"/>	swcdev-1080			
<input type="checkbox"/>	swcdev-UserMapping			
<input type="checkbox"/>	swcger			
<input type="checkbox"/>	swceref			

New Duplicate Edit View Delete

Creation of HTTP system

New "HTTP System"

System ID *	swcdev
Description	
Same User Domain +	<input type="checkbox"/>
Max Connections +	0
Password +	•••••
Re-Enter Password	•••••
Server Aliases +	
Server URL *	http://myServer
User +	Administrator

[Hide Advanced Options](#) (+ denotes advanced options)

Creation of WebDAV Repository Manager

The screenshot displays a web application interface with a blue header and a light blue sidebar. The header includes navigation tabs for 'Content Administration', 'User Administration', and 'System Administration', with 'System Administration' selected. Below the header, a secondary navigation bar lists various system functions like 'Transport', 'Monitoring', 'Permissions', 'System Configuration', 'Portal Display', 'Support', 'Global Portal', 'Distributed Query Engine', and 'Navigation'. The main content area is titled 'Content Management' and features a 'Detailed Navigation' sidebar on the left. This sidebar contains a tree view with categories such as 'System Landscape', 'UM Configuration', 'Service Configuration', 'Knowledge Management' (with 'Content Management' selected), and 'Universal Worklist & Workflow'. Below the navigation sidebar are sections for 'Related Links' (Repositories, Component Monitor, CM Repository Reports) and 'Portal Favorites' (KM-Content). The main content area has a sub-header with 'Actions', 'History', 'Mode', and 'Help' menus. It is divided into two columns: 'Topic Area' and 'Content Management'. The 'Topic Area' column lists links for 'Configuration', 'Content Management', 'Subareas' (Form-Based Publishing, Global Services, Protocols, Repository Filters, Repository Managers, Repository Services, User Interface, Utilities), and 'Content Management'. The 'Content Management' column contains a descriptive paragraph: 'The configuration of Content Management includes several areas. You can connect to different data sources using repository managers, set up various services and filters, and customize the user interface.' Below this paragraph is a list of subareas with brief descriptions: 'Form-Based Publishing' (Settings for form-based publishing applications), 'Global Services' (Provide functionality for all repositories), 'Protocols' (Used for accessing content and metadata), 'Repository Filters' (Manipulate the content, properties, and presentation of documents), 'Repository Managers' (Provide uniform access to internal and external data sources), and 'Repository Services' (Provide functionality for individual repositories).

Creation of WebDAV Repository Manager

The screenshot displays a web application interface for Content Management. The top navigation bar includes tabs for Content Administration, User Administration, and System Administration. Below this, a secondary navigation bar lists various system functions like Transport, Monitoring, and Permissions. The main content area is titled 'Content Management' and features a 'Detailed Navigation' sidebar on the left with categories such as System Landscape, Knowledge Management, and Universal Worklist & Workflow. The central pane shows a 'Content Management' topic area with a tree view of sub-topics including Configuration, Content Management, and Repository Managers. The right pane contains a descriptive text about WebDAV repository managers and a table listing existing repositories.

	Name	Description	Prefix	System ID
<input type="checkbox"/>	swcdev		/swcdev	swcdev
<input type="checkbox"/>	swcdev-1080		/swcdev-1080	swcdev-1080
<input type="checkbox"/>	swcdev-UserMapping		/swcdev-UserMapping	swcdev-UserMapping
<input type="checkbox"/>	swcger		/swcger	swcger
<input type="checkbox"/>	swceref		/swceref	swceref

Buttons: New Duplicate Edit View Delete

Creation of WebDAV Repository Manager

New "WebDAV Repository"

Name *

Description

Prefix (must start with /) *

Active

Hide in Root Folder

System ID (Landscape Service) *

System Path

Use System Default Proxy Settings

Proxy System ID (Landscape Service)

Proxy Host

Proxy Port

Repository Services

<input type="checkbox"/>	Name
<input type="checkbox"/>	accessstatistic
<input type="checkbox"/>	comment
<input type="checkbox"/>	discussion
<input type="checkbox"/>	discussion_secure
<input type="checkbox"/>	discussion_simple
<input type="checkbox"/>	feedback
<input type="checkbox"/>	layout
<input type="checkbox"/>	personalnote

Property Search Manager

Versioning Manager

Security Manager

ACL Manager Cache

Read-only ACLs

Send Events

Cache *

Cache Timeout + milliseconds

HTTP Timeout + milliseconds (0=no timeout)

Server Type * +

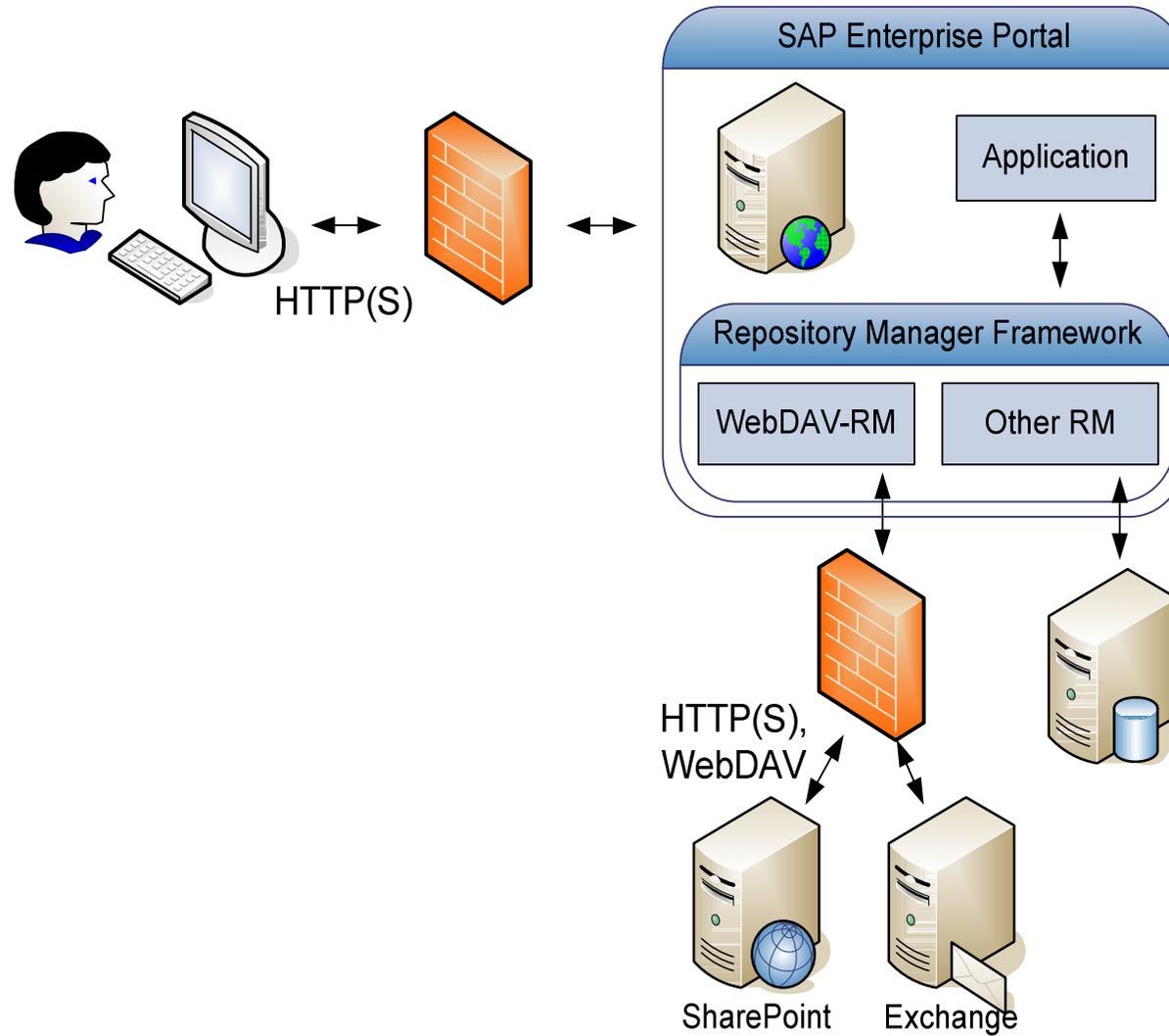
[Hide Advanced Options](#) (+ denotes advanced options)



-Demo -

**Integration of Windows SharePoint Services
into SAP Enterprise Portal**

Demo-Scenario



Integration – SAP EP Logon

Willkommen

Neu hier? [Jetzt registrieren...](#)

Benutzerkennung *

Kennwort *

Probleme bei der Anmeldung? [Support](#)



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Integration – Welcome Screen

The screenshot displays the SAP Portal Content Studio interface. At the top, a yellow banner reads "Welcome Herr Default Administrator". To the right are links for "Help", "Log Off", and the SAP logo. Below this is a search bar with "Search" and "Advanced Search" buttons. A navigation bar contains "Content Administration", "User Administration", and "System Administration". A secondary navigation bar lists various content management options: "Portal Content", "Multiple Property Replacement", "Unification", "Portal Content Translation", "Web Dynpro", "KM Content", "Collaboration Content", and "Workflow Content". The main content area is titled "Portal Content" and includes a "History" section with "Back" and "Forward" buttons. On the left, a "Portal Favorites" sidebar shows a tree structure under "KM-Content" with sub-items "Business Objects" and "Portal Content". The main content area features a large image of a city skyline at night, with the text "Portal Content Studio" overlaid. Below the image, a paragraph describes the studio as a central environment for developing and managing portal content, listing views, pages, layouts, worksets, roles, and packages. To the right of this text is a vertical list of links: "Icon Legend", "Interface Structure", "Main Concepts", and "Tips". At the bottom left of the main content area, there is a "Quick Info" section.

Integration – KM Content Tree

The screenshot displays a web application interface for content management. At the top, there is a navigation bar with tabs for 'Content Administration', 'User Administration', and 'System Administration'. Below this, a breadcrumb trail shows 'Portal Content | Multiple Property Replacement | Unification | Portal Content Translation | Web Dynpro | **KM Content** | Collaboration Content | Workflow Content'. The main area is titled 'KM Content' and features a 'Detailed Navigation' sidebar on the left with a tree view of folders like 'root', 'Toolbox', and 'KM-Content'. The central pane shows a file explorer view of the 'root' directory, listing various folders and files with columns for Name, Size, Modified, and Modified By. The list includes folders such as '~system', 'Bluserhome', 'cm', 'cmdb', 'cmdbfs', 'cmfs', 'discussiongroups', 'documents', 'Entry Points', 'etc', 'grouphome', 'ice', 'Reporting', 'rolehome', 'room_extensions', 'room_publicarea_structures', 'room_store_cm', 'room_structures', 'rooms', and 'runtime'. At the bottom of the list, there is a pagination control showing '1-20 21-29 > >> / 29'.

Name	Size	Modified	Modified By
~system		9/29/05 2:07:44 PM	cmadmin_service
Bluserhome		9/29/05 2:07:41 PM	
cm		11/29/05 12:49:44 PM	
cmdb		11/29/05 12:49:37 PM	
cmdbfs		11/29/05 12:49:44 PM	
cmfs		2/5/06 9:19:24 AM	
discussiongroups		9/29/05 2:07:41 PM	
documents		9/30/05 2:35:50 PM	admin_admin
Entry Points			
etc		11/28/05 5:26:14 AM	
grouphome		9/29/05 2:07:42 PM	
ice		5/4/06 10:42:30 AM	
Reporting		11/29/05 12:49:49 PM	cmadmin_service
rolehome		9/29/05 2:07:44 PM	
room_extensions		9/29/05 2:07:41 PM	
room_publicarea_structures		9/29/05 2:07:41 PM	
room_store_cm		9/29/05 2:07:44 PM	
room_structures		9/29/05 2:07:41 PM	
rooms		9/29/05 2:07:41 PM	
runtime			

Integration – Overview of SWCREF

Welcome Herr Default Administrator

Search [Advanced Search](#)

Content Administration | **User Administration** | System Administration

Portal Content | Multiple Property Replacement | Unification | Portal Content Translation | Web Dynpro | **KM Content** | Collaboration Content | Workflow Content

KM Content

Detailed Navigation

- KM Content
 - ▶ Toolbox

Portal Favorites

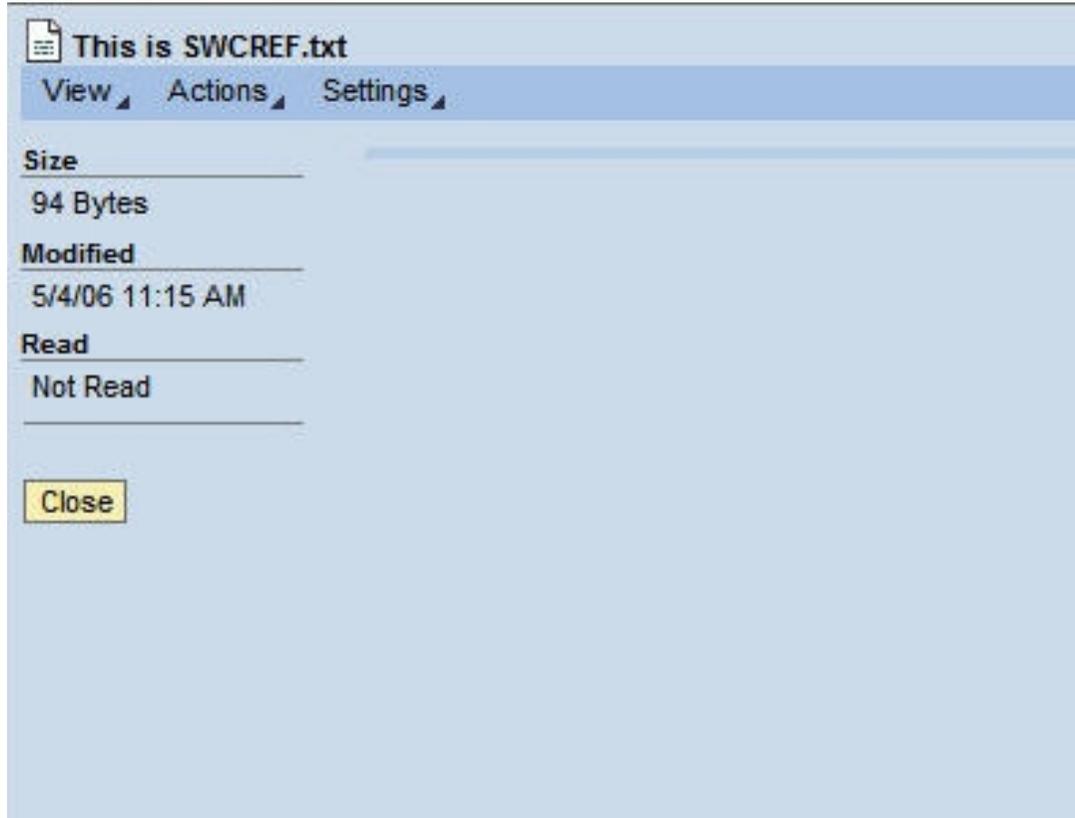
- KM-Content

View Folder Selection Go To

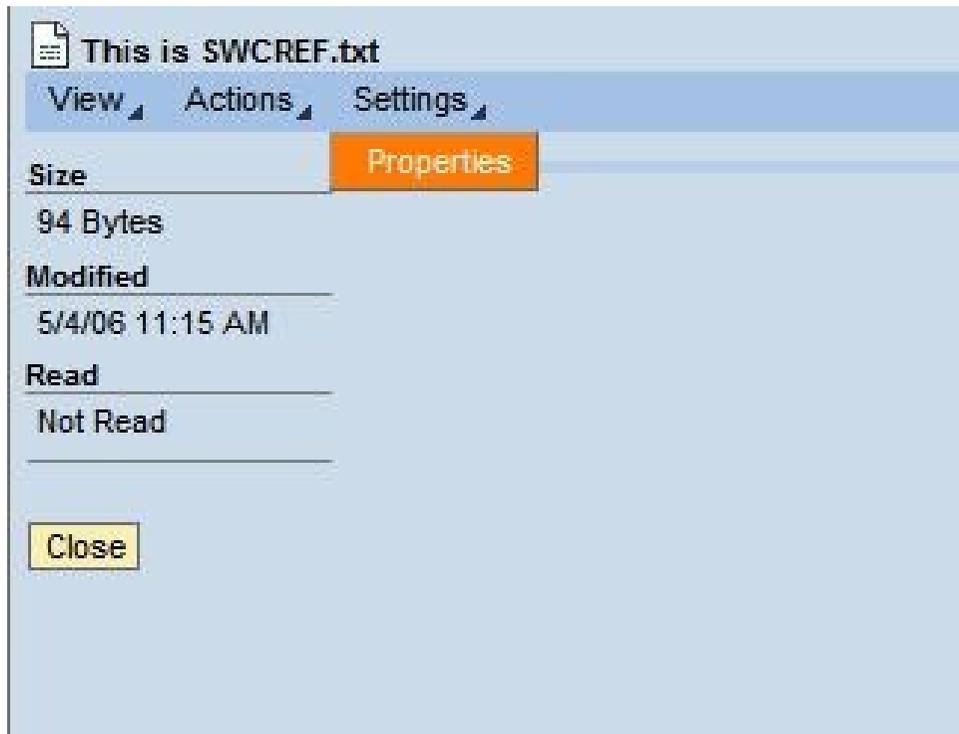
root > [swcref](#) > Shared Documents

root	Name	Size	Modified	Modified By
▶ ~system	Folder1		9/1/05 8:42:58 PM	
▶ Bluserhome	Folder2		9/1/05 8:42:58 PM	
▶ cm	Folder3		9/1/05 8:42:58 PM	
▶ cmdb	Forms		8/29/05 11:59:45 PM	
▶ cmdbfs	1.txt	197 Bytes	9/1/05 8:43:00 PM	
▶ cmfs	10.txt	198 Bytes	9/1/05 8:43:01 PM	
▶ discussiongroups	11.txt	198 Bytes	9/1/05 8:43:01 PM	
▶ documents	12.txt	198 Bytes	9/1/05 8:43:01 PM	
▶ Entry Points	2.txt	197 Bytes	9/1/05 8:43:00 PM	
▶ etc	3.txt	197 Bytes	9/1/05 8:43:00 PM	
▶ grouphome	4.txt	197 Bytes	9/1/05 8:43:00 PM	
▶ ice	5.txt	197 Bytes	9/1/05 8:43:00 PM	
▶ Reporting	6.txt	197 Bytes	9/1/05 8:43:00 PM	
▶ rolehome	7.txt	197 Bytes	9/1/05 8:43:00 PM	
▶ room_extensions	8.txt	197 Bytes	9/1/05 8:43:00 PM	
▶ room_publicarea_structures	9.txt	197 Bytes	9/1/05 8:43:00 PM	
▶ room_store_cm	This is SWCREF.txt	94 Bytes	5/4/06 11:10:39 AM	

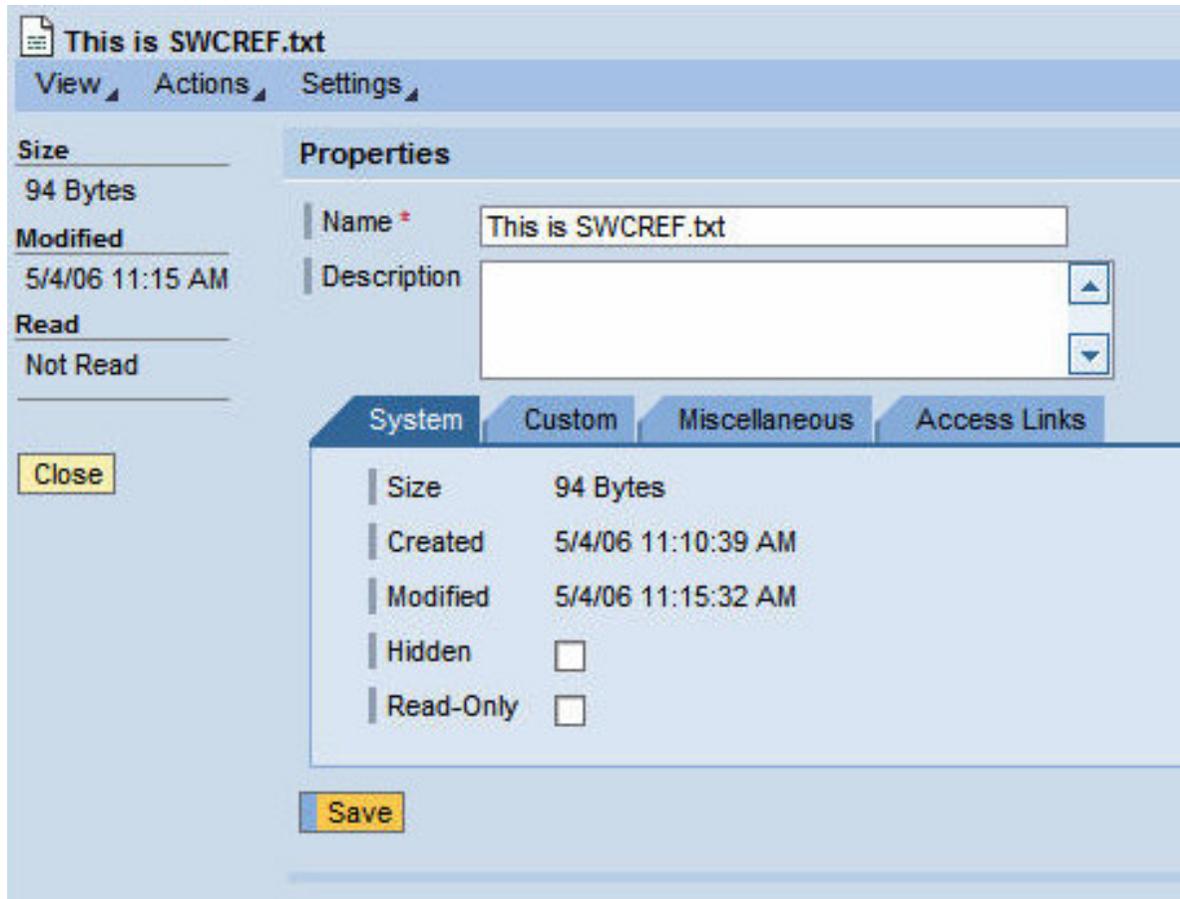
Integration – Details of Sample Document



Integration – Viewing Properties 1



Integration – Viewing Properties 2



Integration – Viewing Properties 3

This is SWCREf.txt

View Actions Settings

Size
94 Bytes

Modified
5/4/06 11:15 AM

Read
Not Read

Close

Properties

Name * This is SWCREf.txt

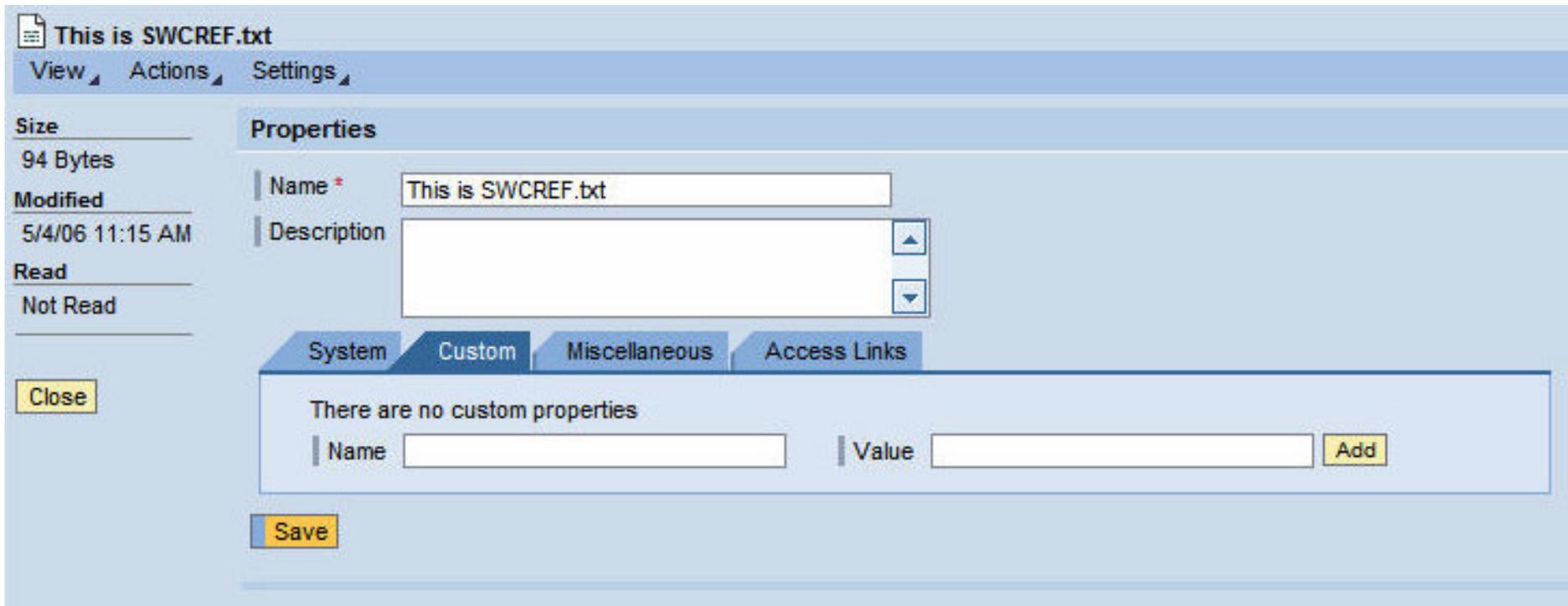
Description

System Custom Miscellaneous Access Links

There are no custom properties

Name Value Add

Save



Integration – Overview of SWCDEV

Welcome Herr Default Administrator

Search [Advanced Search](#)

Content Administration | **User Administration** | System Administration

Portal Content | Multiple Property Replacement | Unification | Portal Content Translation | Web Dynpro | **KM Content** | Collaboration Content | Workflow Content

KM Content

Detailed Navigation

- KM Content
 - ▶ Toolbox

Portal Favorites

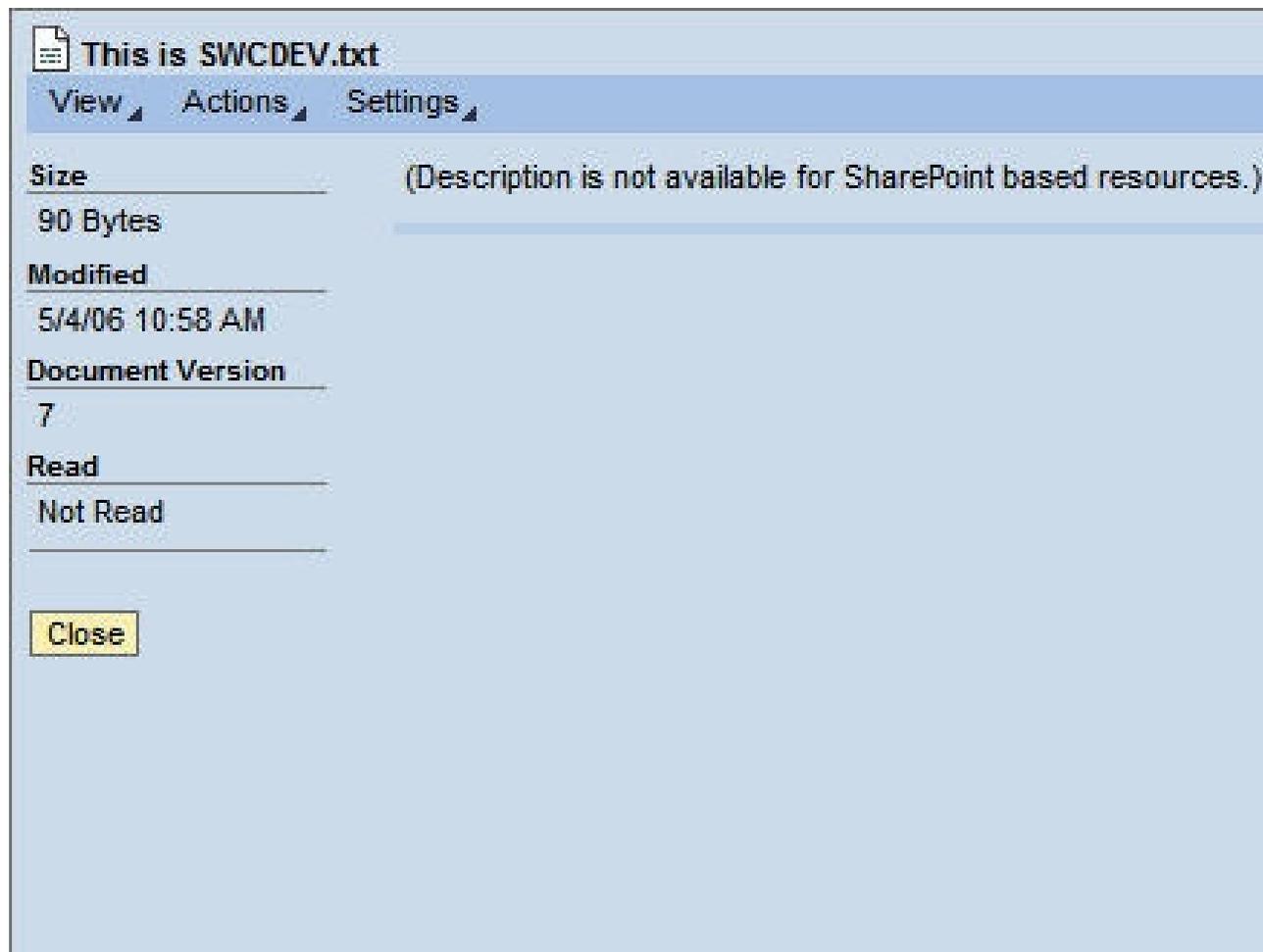
- KM-Content

View Folder Selection Go To

root > [swcdev](#) > Shared Documents

	Name	Size	Modified	Modified By
▶	Bluserhome			
▶	cm			
▶	cmdb			
▶	cmdbfs			
▶	cmfs			
▶	discussiongroups			
▶	documents			
▶	Entry Points			
▶	etc			
▶	grouphome			
▶	ice			
▶	Reporting			
▶	rolehome			
▶	room_extensions			
▶	room_publicarea_structures			
▶	room_store_cm			
▶	room_structures			
▶	rooms			
☐	Folder1			
☐	Folder2			
☐	Folder3			
☐	Forms			
☐	1.txt	199 Bytes	3/2/06 4:50:37 PM	
☐	10.txt	200 Bytes	5/4/06 11:12:30 AM	
☐	11.txt	200 Bytes	3/2/06 4:46:17 PM	
☐	12.txt	199 Bytes	3/2/06 4:50:36 PM	
☐	2.txt	199 Bytes	3/2/06 4:46:14 PM	
☐	3.txt	199 Bytes	3/2/06 4:46:14 PM	
☐	4.txt	199 Bytes	3/2/06 4:46:14 PM	
☐	5.txt	211 Bytes	3/6/06 3:59:25 PM	
☐	6.txt	228 Bytes	3/6/06 4:12:59 PM	
☐	7.txt	199 Bytes	3/2/06 4:46:15 PM	
☐	8.txt	199 Bytes	3/2/06 4:46:16 PM	
☐	9.txt	199 Bytes	3/2/06 4:46:16 PM	
☐	This is SWCDEV.txt	90 Bytes	5/4/06 10:58:47 AM	

Integration – Details of Sample Document

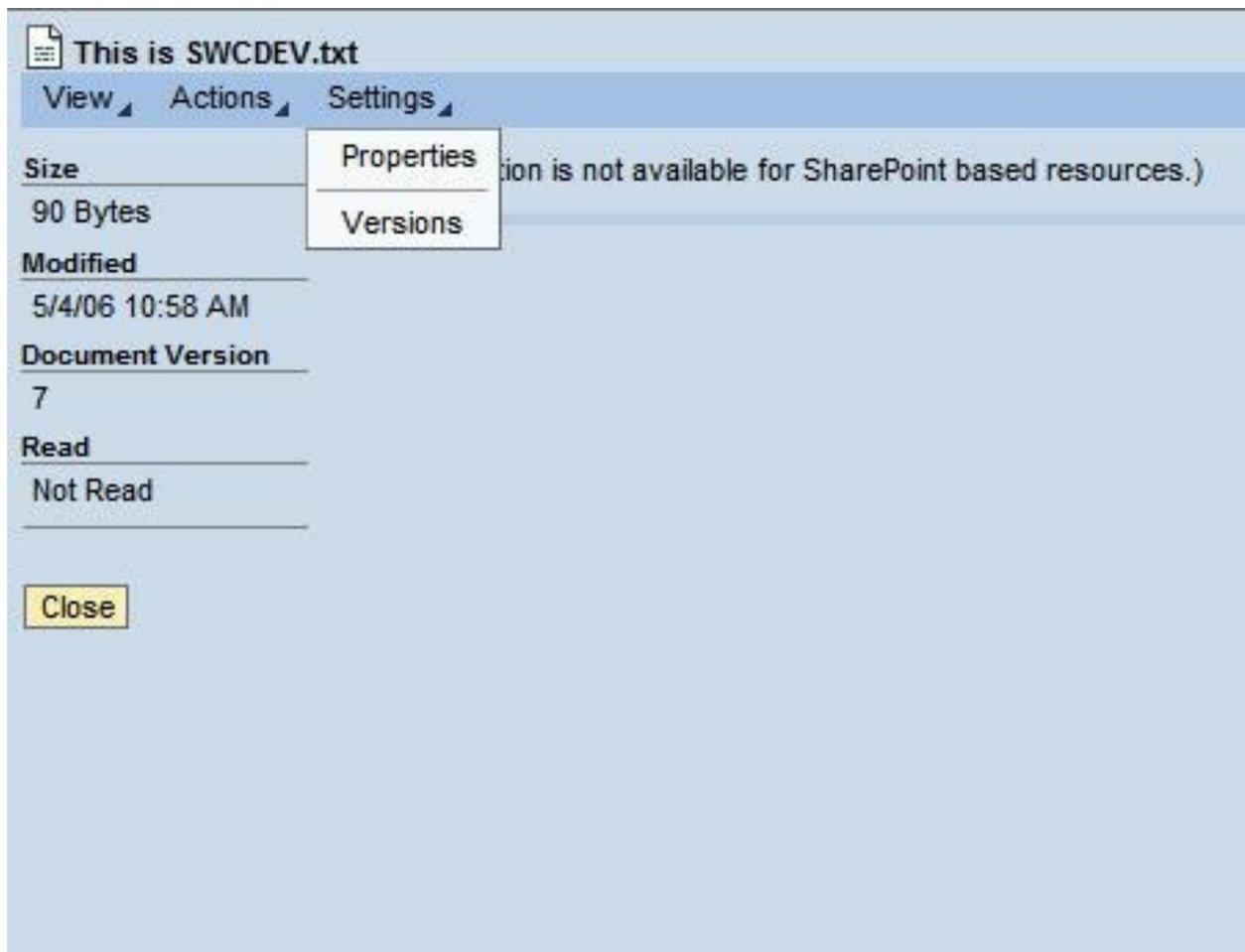


The screenshot shows a document details window for a file named "This is SWCDEV.txt". The window has a title bar with the file name and a menu bar with "View", "Actions", and "Settings". The main content area displays the following information:

Size	(Description is not available for SharePoint based resources.)
90 Bytes	
Modified	
5/4/06 10:58 AM	
Document Version	
7	
Read	
Not Read	

At the bottom left of the window, there is a "Close" button.

Integration – Properties and Versions 1



Integration – Properties and Versions 2

The screenshot shows a SharePoint file properties dialog box for a file named 'This is SWCDEV.txt'. The dialog is divided into several sections:

- File Information:** Shows the file name 'This is SWCDEV.txt', size '90 Bytes', and modification date '5/4/06 10:58 AM'. It also indicates the document version is '7' and the file is 'Not Read'.
- Properties:** Contains a 'Name' field with the value 'This is SWCDEV.txt' and a 'Description' field with the text '(Description is not available for SharePoint based resources.)'. Below these are tabs for 'System', 'Custom', 'Miscellaneous', and 'Access Links'.
- System Properties:** A list of system properties including:
 - MIME Type: FORTRAN Source File
 - Size: 90 Bytes
 - Created: 5/4/06 10:52:03 AM
 - Modified: 5/4/06 10:58:47 AM
 - Hidden:
 - Read-Only:
- Buttons:** 'Close' and 'Save' buttons are visible.

Integration – Properties and Versions 3

This is SWCDEV.txt

View Actions Settings

Size
90 Bytes

Modified
5/4/06 10:58 AM

Document Version
7

Read
Not Read

Close

Properties

Name * This is SWCDEV.txt

Description (Description is not available for SharePoint based resources.)

System Custom Miscellaneous Access Links

<input type="checkbox"/>	Created_x0020_Date	2006-05-04 10:52:03
<input type="checkbox"/>	LinkFilename	This is SWCDEV.txt
<input type="checkbox"/>	Author	SWCDEV\administrator
<input type="checkbox"/>	myCustomNumber	42
<input type="checkbox"/>	myDate	5/4/2006 12:00:00 AM
<input type="checkbox"/>	FileSizeDisplay	90
<input type="checkbox"/>	ID	1237
<input type="checkbox"/>	myCustomNumber2	42
<input type="checkbox"/>	Last_x0020_Modified	2006-05-04 10:58:47
<input type="checkbox"/>	LinkFilenameNoMenu	This is SWCDEV.txt
<input type="checkbox"/>	DocIcon	txt
<input type="checkbox"/>	Editor	SWCDEV\administrator
<input type="checkbox"/>	davOwner	Another owner
<input type="checkbox"/>	LinkCheckedOutTitle	#EMPTY#
<input type="checkbox"/>	Edit	#EMPTY#
<input type="checkbox"/>	myCalculatedValue	84.00000000000000
<input type="checkbox"/>	myCustomProp	Yet another test

Delete Properties

Name Value Add

Save

Integration – Properties and Versions 4

This is SWCDEV.txt

View Actions Settings

Size
90 Bytes

Modified
5/4/06 10:58 AM

Document Version
7

Read
Not Read

Close

Versions

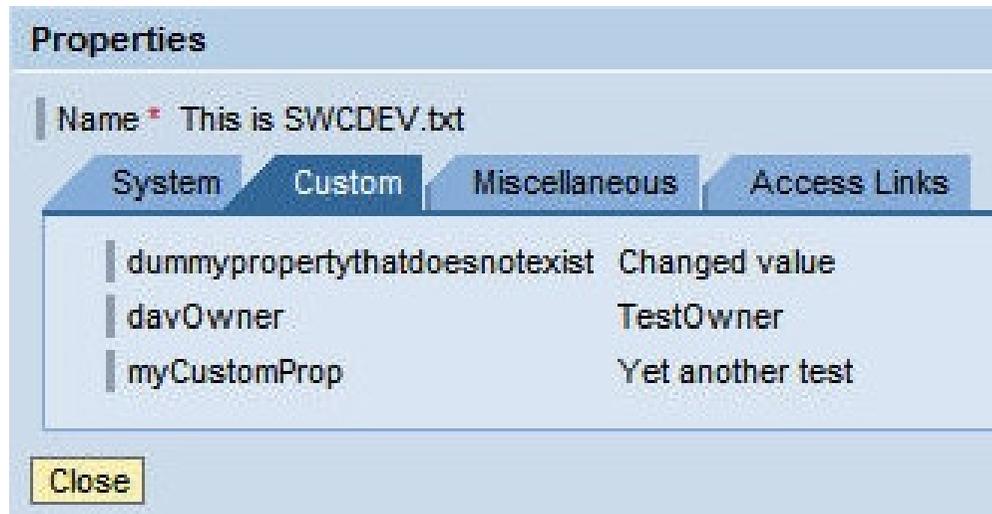
Each time an item is saved or uploaded to the repository, a new version is stored by the system. You can view older versions or copy an older version to be the new current version.
Start of revision table - 8 rows and 6 columns

Version	Name	Modified On	Properties
<input checked="" type="checkbox"/> Current	This is SWCDEV.txt	5/4/06 10:58:47 AM	Properties
<input type="checkbox"/> 6	This is SWCDEV.txt	5/4/06 10:53:16 AM	Properties
<input type="checkbox"/> 5	This is SWCDEV.txt	5/4/06 10:53:02 AM	Properties
<input type="checkbox"/> 4	This is SWCDEV.txt	5/4/06 10:52:59 AM	Properties
<input type="checkbox"/> 3	This is SWCDEV.txt	5/4/06 10:52:50 AM	Properties
<input type="checkbox"/> 2	This is SWCDEV.txt	5/4/06 10:52:21 AM	Properties
<input type="checkbox"/> 1	This is SWCDEV.txt	5/4/06 10:52:12 AM	Properties

End of revision table

Duplicate as Current Version Delete

Integration – Properties and Versions 5



Integration – Copying Documents 1

Welcome Herr Default Administrator

Search [Advanced Search](#)

Content Administration | User Administration | System Administration

Portal Content | Multiple Property Replacement | Unification | Portal Content Translation | Web Dynpro | **KM Content** | Collaboration Content | Workf

KM Content

Detailed Navigation

- KM Content
 - ▶ Toolbox

Portal Favorites

- KM-Content

View Folder Selection Go To

root > [swcdev](#) > Shared Documents

Name	Size	Modified M
Folder1		
Folder2		
Folder3		
Forms		
1.txt	199 Bytes	3/2/06 4:50:37 PM
10.txt	200 Bytes	5/4/06 11:12:30 AM
11.txt	200 Bytes	3/2/06 4:46:17 PM
12.txt	199 Bytes	3/2/06 4:50:36 PM
2.txt	199 Bytes	3/2/06 4:46:14 PM
3.txt	199 Bytes	3/2/06 4:46:14 PM
4.txt	199 Bytes	3/2/06 4:46:14 PM
5.txt	211 Bytes	3/6/06 3:59:25 PM
6.txt	228 Bytes	3/6/06 4:12:59 PM
7.txt	199 Bytes	3/2/06 4:46:15 PM
8.txt	199 Bytes	3/2/06 4:46:16 PM
9.txt	199 Bytes	3/2/06 4:46:16 PM
This is SWCDEV.txt	90 Bytes	5/4/06 10:58:47 AM

Copy...
Move...

Integration – Copying Documents 2

Welcome Herr Default Administrator

Search [Advanced Search](#)

Content Administration | **User Administration** | System Administration

Portal Content | Multiple Property Replacement | Unification | Portal Content Translation | Web Dynpro | **KM Content** | Collaboration Content | Workflow Content

KM Content

Detailed Navigation

- KM Content
 - ▶ Toolbox

Portal Favorites

- KM-Content

This is SWCDEV.txt - Copy

Browse to the folder into which you want to copy the item "This is SWCDEV.txt".

[Favorites](#) [Personal Documents](#) [Recently Used](#) [Common folders](#) [Public Documents](#)

root > [swcdev](#) > [Shared Documents](#)

Name	Size	Modified	Modified By
Folder1			
Folder2			
Folder3			
Forms			
1.txt	199 Bytes	3/2/06 4:50:37 PM	
10.txt	200 Bytes	5/4/06 11:12:30 AM	
11.txt	200 Bytes	3/2/06 4:46:17 PM	
12.txt	199 Bytes	3/2/06 4:50:36 PM	
2.txt	199 Bytes	3/2/06 4:46:14 PM	
3.txt	199 Bytes	3/2/06 4:46:14 PM	

1-10 11-17 > >> / 17

OK Cancel



Integration – Copying Documents 3

Welcome Herr Default Administrator

Search [Advanced Search](#)

Content Administration | User Administration | System Administration

Portal Content | Multiple Property Replacement | Unification | Portal Content Translation | Web Dynpro | **KM Content** | Collaboration Content | Workflow Content

KM Content

Detailed Navigation

- KM Content
 - ▶ Toolbox

Portal Favorites

- KM-Content

Item has been copied

View Folder Selection Go To

root > [swcdev](#) > Shared Documents

Name	Size	Modified	Modified By
Folder1			
Folder2			
Folder3			
Forms			
1.txt	199 Bytes	3/2/06 4:50:37 PM	
10.txt	200 Bytes	5/4/06 11:12:30 AM	
11.txt	200 Bytes	3/2/06 4:46:17 PM	
12.txt	199 Bytes	3/2/06 4:50:36 PM	
2.txt	199 Bytes	3/2/06 4:46:14 PM	
3.txt	199 Bytes	3/2/06 4:46:14 PM	
4.txt	199 Bytes	3/2/06 4:46:14 PM	
5.txt	211 Bytes	3/6/06 3:59:25 PM	
6.txt	228 Bytes	3/6/06 4:12:59 PM	
7.txt	199 Bytes	3/2/06 4:46:15 PM	
8.txt	199 Bytes	3/2/06 4:46:16 PM	
9.txt	199 Bytes	3/2/06 4:46:16 PM	
This is SWCDEV.txt	90 Bytes	5/4/06 10:58:47 AM	

Integration – Copying Documents 4

Welcome Herr Default Administrator

Search [Advanced Search](#)

[Content Administration](#) [User Administration](#) [System Administration](#)

[Portal Content](#) | [Multiple Property Replacement](#) | [Unification](#) | [Portal Content Translation](#) | [Web Dynpro](#) | [KM Content](#) | [Collaboration Content](#) | [Workflow Content](#)

KM Content

Detailed Navigation

- **KM Content**
 - ▶ Toolbox

Portal Favorites

- KM-Content

View Folder Selection Go To

root > documents > Public Documents

- ▼ root
 - ▶ [~system](#)
 - ▶ [Bluserhome](#)
 - ▶ [cm](#)
 - ▶ [cmdb](#)
 - ▶ [cmdbfs](#)
 - ▶ [cmfs](#)
 - ▶ [discussiongroups](#)
 - ▼ documents
 - ▶ [~system~](#)
 - ▶ [DeveloperContent](#)
 - ▶ [Discussions](#)
 - ▶ [Links](#)
 - ▶ [News](#)
 - [Public Documents](#)

	Name	Size	Modified	Modified By
<input type="checkbox"/>	This is SWCDEV.txt	90 Bytes	5/4/06 10:58:47 AM	Administrator, Default

Integration – Copying Documents 6

This is SWCDEV.txt

View Actions Collaboration Settings

Size
90 Bytes

Created
5/4/06 12:26 PM
[Administrator, Default](#)

Modified
5/4/06 10:58 AM
[Administrator, Default](#)

Read
Not Read

[Close](#)

Properties

Name * This is SWCDEV.txt

Description (Description is not available for SharePoint based resources.)

System Custom Rendering Miscellaneous Access Links

<input type="checkbox"/>	Created_x0020_Date	2006-05-04 10:52:03
<input type="checkbox"/>	LinkFilename	This is SWCDEV.txt
<input type="checkbox"/>	Author	SWCDEV\administrator
<input type="checkbox"/>	myDate	5/4/2006 12:00:00 AM
<input type="checkbox"/>	myCustomNumber	42
<input type="checkbox"/>	FileSizeDisplay	90
<input type="checkbox"/>	ID	1237
<input type="checkbox"/>	myCustomNumber2	42
<input type="checkbox"/>	Last_x0020_Modified	2006-05-04 10:58:47
<input type="checkbox"/>	LinkFilenameNoMenu	This is SWCDEV.txt
<input type="checkbox"/>	DocIcon	txt
<input type="checkbox"/>	davOwner	Another owner
<input type="checkbox"/>	Editor	SWCDEV\administrator
<input type="checkbox"/>	LinkCheckedOutTitle	#EMPTY#
<input type="checkbox"/>	Edit	#EMPTY#
<input type="checkbox"/>	myCalculatedValue	84.00000000000000
<input type="checkbox"/>	myCustomProp	Yet another test

[Delete Properties](#)

Name Value [Add](#)

[Save](#)



-Demo -

TREX Configuration Searching Documents

TREX Configuration

Content Administration | User Administration | **System Administration** | MSCTSCDEMO | Content Management

Transport | Monitoring | Permissions | **System Configuration** | Portal Display | Support | Global Portal | Distributed Query Engine | Navigation

Index Administration

Detailed Navigation

- System Landscape
- System Landscape Overview
- Keystore Administration
- UM Configuration
- Service Configuration
- Knowledge Management
 - Content Management
 - Collaboration
 - Index Administration**

Index Administration

	ID	Name	Active	Service	Service Typ
<input type="checkbox"/>	msctscowa3	msctscowa3	✓	Trex Search	Search
<input type="checkbox"/>	msctscowa3_with_secman	msctscowa3_with_secman	✓	Trex Search	Search
<input type="checkbox"/>	msctscsps	msctscsps	✓	Trex Search	Search

TREX Configuration

Index Administration

msctscsps

[Properties](#)

[Data Sources](#)

[Permissions](#)

Back

Properties

ID	<input type="text" value="msctscsps"/>
Name	<input type="text" value="msctscsps"/>
Group	<input type="text" value="-Select-"/> <input type="button" value="Add"/>
Crawler Parameters	<input type="text" value="standard"/> <input type="button" value="Modify Schedule"/> <input type="button" value="Remove Schedule"/>
Active	<input checked="" type="checkbox"/>
Service	<input type="text" value="Trex Search"/>
Service Type	<input type="text" value="Search"/>
Items to Index	<input type="text" value="Documents"/>
fuzziness	<input type="text" value="0.7"/>

Save

TREX Configuration

Index Administration

msctscsps

[Properties](#)

[Data Sources](#)

[Permissions](#)

The data sources assigned to an index determine its scope. You can assign folders or entire repositories saved, the documents within the folders and repositories specified are indexed, ensuring that the index additions, and deletions.

Data Sources

root > msctscsps (349)

Crawler Parameter Index Default: standard Index schedule defined

Searching documents

The screenshot displays a SharePoint portal interface. At the top left, a yellow banner reads "Welcome Andre Fischer". Below this is a search bar with a "Search" button and a link to "Advanced Search". A navigation bar contains "Content Administration", "User Administration", "System Administration", and "MSCTSCDEMO". Below the navigation bar, a breadcrumb trail shows "Portal Content | Multiple Property Replacement | Unification | Portal Content Translation |". A "Portal Content" section is visible, followed by a "Portal Favorites" section. The "Portal Favorites" section includes a "Browse" button and a "Search" button. Below these buttons, a list of folders is shown: "Business Objects" and "Portal Content".

Searching documents

* [Hide Options](#)

You can search using Boolean keywords such as AND and OR. Use double quotes around phrases.

Search Options

Search Scope

Index Groups: [Show Indexes](#)

Miscellaneous

Folders (and Subfolders):

Filter by Properties

Name

Description

Last Modified By

Last Modified

Display Results

Sort By in Order

Results Per Page

Items

Max No. of Categories

Filter by Predefined Properties

Property Value

Filter by Custom Properties

Property Value

Searching documents

* [Show Options](#)

Search Results For *

	simple1.txt	Open Folder See Also Details
98%	text1 test mit update über edit online 11 :1411:5512:2114:5417:18	
	78 Bytes 1/31/06 5:18:58 PM HTML Version	
	Test2.txt	Open Folder See Also Details
98%	Just a simple test documen .It contains the keyword " SWC " .	
	59 Bytes 4/10/06 10:26:07 AM HTML Version	

Searching documents

SAP Enterprise Portal 6.0 - Microsoft Internet Explorer

simple1.txt

View Actions Settings

Size
78 Bytes

Locked By
ep6adm

Modified
1/31/06 5:18 PM

Number of Versions

Read
Not Read

Close

Properties

Name * simple1.txt

Description (Description is not available for SharePoint based resources.)

System Custom Miscellaneous Access Links

myStringProp	Test von Robert Draken aus dem IE
LinkFilename0	#EMPTY#
LinkFilename	simple1.txt
Created_x005f_x0020_Date	#EMPTY#
Last_x005f_x0020_Modified	#EMPTY#
xyz	#EMPTY#
Last_x0020_Modified	2006-01-31 17:18:58
LinkFilenameNoMenu	simple1.txt



- Demo -

**Maintenance of
Windows SharePoint Services
Connector for WebDAV**

Repair SWC

The screenshot shows a Microsoft Internet Explorer browser window displaying the administration page for the Windows SharePoint Services Connector for WebDAV. The address bar shows the URL `http://localhost:12001/default.aspx`. The page title is "Windows SharePoint Services Connector for WebDAV - Administration - Microsoft Internet Explorer".

The main content area is titled "Windows SharePoint Services Connector for WebDAV Central Administration". It includes a "Central Navigation" sidebar with links for "End User License Agreement", "Configuration Settings", and "Database Logging". The main content area is divided into three sections:

- Installation & Maintenance**: "Install, Repair or Remove Windows SharePoint Services Connector for WebDAV on Virtual Server." with sub-links for "Extend Virtual Server with Windows SharePoint Services Connector for WebDAV" and "Remove or Repair Windows SharePoint Services Connector for WebDAV".
- Configuration Settings**: "View and change configuration settings of Windows SharePoint Services Connector for WebDAV." with a sub-link for "Configuration Settings".
- Database Logging**: "View Database Logging Entries of Windows SharePoint Services Connector for WebDAV." with a sub-link for "View Database Logging".

The status bar at the bottom indicates "Local intranet".

Repair SWC

The screenshot shows a web browser window titled "Windows SharePoint Services Connector for WebDAV - Installation V5List - Microsoft Internet Explorer". The address bar shows the URL: `http://localhost:12001/ExtendList.aspx?Operation=2`. The page content includes a navigation sidebar on the left with links for "End User License Agreement", "Administration", "Configuration Settings", and "Database Logging". The main content area is titled "Virtual Server List" and contains a table with the following data:

Remove or Repair Windows SharePoint Services Connector for WebDAV						
Name	URL	Filter Version	Handler Version	Status	IIS Instance ID	
Default Web Site	<code>http://swcref/</code>	1.0.0.0	1.0.2315.14795	Extended	1	

The status bar at the bottom of the browser window shows "Done" and "Local intranet".

Repair SWC

Windows SharePoint Services Connector for WebDAV - Remove Options - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail

Address http://localhost:12001/RemoveOptions.aspx?Url=http%3a%2f%2fswcref%2f&Operation=2 Go Links

Windows SharePoint Services Connector for WebDAV Remove / Repair

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

Use this page to remove or repair Windows SharePoint Services Connector for WebDAV.

Current Virtual Server

Note the current virtual server name. To change virtual servers, go to the [Choose Virtual Server](#) page.

Virtual Server Name:	Default Web Site
URL:	http://swcref/
Filter Version:	1.0.0.0
Handler Version:	1.0.2315.14795
Status:	Extended
IIS Instance ID:	1

Options

Choose the appropriate operation.

Remove will remove the SwcFilter and the SwcHandler.

Repair and leave configuration will repeat all extension steps and resets settings to original values, but does not change the current configuration file.

Repair and reset configuration will repeat all extension steps and resets settings to original values, and replaces the current configuration file with the default configuration file.

Remove Windows SharePoint Services Connector for WebDAV.

Repair Windows SharePoint Services Connector for WebDAV and leave current configuration.

Repair Windows SharePoint Services Connector for WebDAV and reset configuration.

OK Cancel

Local intranet

Repair SWC

Windows SharePoint Services Connector for WebDAV - Remove Options - Microsoft Internet Explorer

Address: http://localhost:12001/RemoveOptions.aspx?Url=http%3a%2f%2fswceref%2f&Operation=2

Windows SharePoint Services Connector for WebDAV Remove / Repair

Use this page to remove or repair Windows SharePoint Services Connector for WebDAV.

Current Virtual Server

Virtual Server Name:	Default Web Site
URL:	http://swceref/
Filter Version:	1.0.0.0
Handler Version:	1.0.2315.14795
Status:	Extended
IIS Instance ID:	1

Options

Choose the appropriate operation.

Remove will remove the SwcFilter and the SwcHandler.

Repair and leave configuration will repeat all extension steps and resets settings to original values, but does not change the current configuration file.

Repair and reset configuration will repeat all extension steps and resets settings to original values, and replaces the current configuration file with the default configuration file.

Remove Windows SharePoint Services Connector for WebDAV.

Repair Windows SharePoint Services Connector for WebDAV and leave current configuration.

Repair Windows SharePoint Services Connector for WebDAV and reset configuration.

To remove or repair Windows SharePoint Services Connector for WebDAV, the IIS Web Site will be automatically stopped - and restarted after the operation completes.

Please confirm by clicking the OK button again.

To abort, click the Cancel button.

OK Cancel

Repair SWC

Windows SharePoint Services Connector for WebDAV - Installation V\$List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address <http://localhost:12001/ExtendList.aspx?Operation=0&task=Repairing%20Windows%20SharePoint%20Services%20Connector%20for%20WebC> Go Links >>

Windows SharePoint Services Connector for WebDAV
Virtual Server List

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

To perform maintenance tasks for a virtual server, click the virtual server name.

Repairing Windows SharePoint Services Connector for WebDAV: successful.

Complete List

Name	URL	Filter Version	Handler Version	Status	IIS Instance ID
Default Web Site	http://swcref/	1.0.0.0	1.0.2315.14795	Extended	1

Done Local intranet

Repair SWC

Windows SharePoint Services Connector for WebDAV - Remove Options - Microsoft Internet Explorer

Address: http://localhost:12001/RemoveOptions.aspx?Url=http%3a%2f%2fswceref%2f&Operation=2

Windows SharePoint Services Connector for WebDAV Remove / Repair

Use this page to remove or repair Windows SharePoint Services Connector for WebDAV.

Current Virtual Server

Virtual Server Name:	Default Web Site
URL:	http://swceref/
Filter Version:	1.0.0.0
Handler Version:	1.0.2315.14795
Status:	Extended
IIS Instance ID:	1

Options

Choose the appropriate operation.

Remove will remove the SwcFilter and the SwcHandler.

Repair and **leave** configuration will repeat all extension steps and resets settings to original values, but does not change the current configuration file.

Repair and **reset** configuration will repeat all extension steps and resets settings to original values, and replaces the current configuration file with the default configuration file.

Remove Windows SharePoint Services Connector for WebDAV.

Repair Windows SharePoint Services Connector for WebDAV and **leave current configuration**.

Repair Windows SharePoint Services Connector for WebDAV and **reset configuration**.

OK Cancel

Repair SWC

Windows SharePoint Services Connector for WebDAV - Remove Options - Microsoft Internet Explorer

Address: http://localhost:12001/RemoveOptions.aspx?Url=http%3a%2f%2fswcref%2f&Operation=2

Windows SharePoint Services Connector for WebDAV Remove / Repair

Use this page to remove or repair Windows SharePoint Services Connector for WebDAV.

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

Current Virtual Server

Note the current virtual server name. To change virtual servers, go to the [Choose Virtual Server](#) page.

Virtual Server Name:	Default Web Site
URL:	http://swcref/
Filter Version:	1.0.0.0
Handler Version:	1.0.2315.14795
Status:	Extended
IIS Instance ID:	1

Options

Choose the appropriate operation.

Remove will remove the SwcFilter and the SwcHandler.

Repair and **leave** configuration will repeat all extension steps and resets settings to original values, but does not change the current configuration file.

Repair and **reset** configuration will repeat all extension steps and resets settings to original values, and replaces the current configuration file with the default configuration file.

- Remove** Windows SharePoint Services Connector for WebDAV.
- Repair** Windows SharePoint Services Connector for WebDAV and **leave current configuration**.
- Repair** Windows SharePoint Services Connector for WebDAV and **reset configuration**.

To remove or repair Windows SharePoint Services Connector for WebDAV , the IIS Web Site will be automatically stopped - and restarted after the operation completes.

Please confirm by clicking the OK button again.

To abort, click the Cancel button.

OK Cancel

Repair SWC

Windows SharePoint Services Connector for WebDAV
Virtual Server List

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

To perform maintenance tasks for a virtual server, click the virtual server name.

Repairing Windows SharePoint Services Connector for WebDAV: successful.

Complete List

Name	URL	Filter Version	Handler Version	Status	IIS Instance ID
Default Web Site	http://sworef/	1.0.0.0	1.0.2315.14795	Extended	1

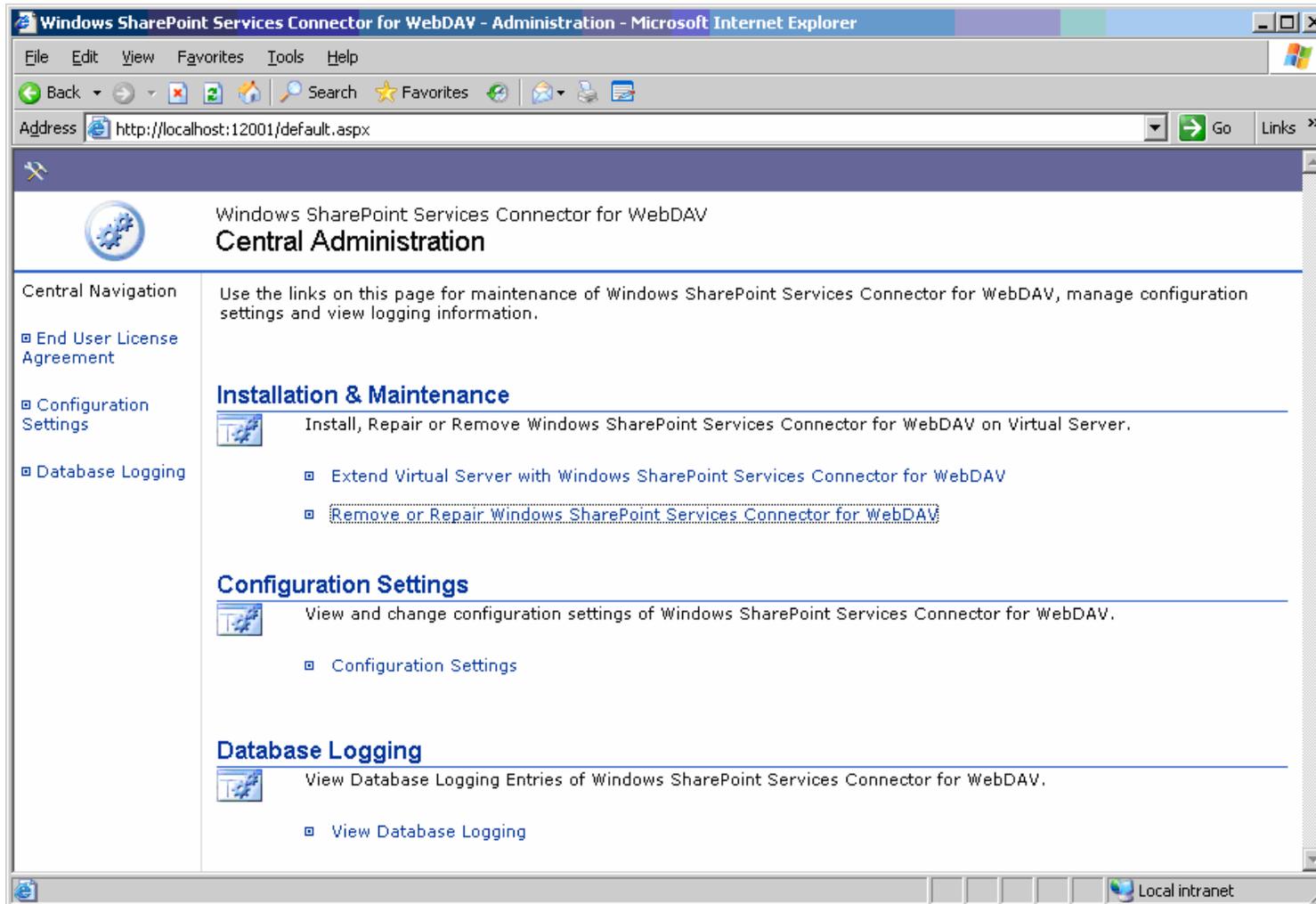
Done Local intranet



-Demo -

**Remove
Windows SharePoint Services
Connector for WebDAV**

Remove SWC



Remove SWC

Windows SharePoint Services Connector for WebDAV - Installation VList - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address <http://localhost:12001/ExtendList.aspx?Operation=2> Go Links

Windows SharePoint Services Connector for WebDAV
Virtual Server List

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

To perform maintenance tasks for a virtual server, click the virtual server name. To view all virtual servers for this server computer, go to the [complete list](#).

Remove or Repair Windows SharePoint Services Connector for WebDAV

Name	URL	Filter Version	Handler Version	Status	IIS Instance ID
Default Web Site	http://swcref/	1.0.0.0	1.0.2315.14795	Extended	1

<http://localhost:12001/RemoveOptions.aspx?Url=http%3a%2f%2fswcref%2f&Operation=2> Local intranet

Remove SWC

The screenshot shows a web browser window titled "Windows SharePoint Services Connector for WebDAV - Remove Options - Microsoft Internet Explorer". The address bar shows the URL: `http://localhost:12001/RemoveOptions.aspx?Url=http%3a%2f%2fswcref%2f&Operation=2`. The page content includes a navigation sidebar on the left with links for "End User License Agreement", "Administration", "Configuration Settings", and "Database Logging". The main content area is titled "Remove / Repair" and contains the following sections:

- Current Virtual Server**: A table showing server details.

Virtual Server Name:	Default Web Site
URL:	http://swcref/
Filter Version:	1.0.0.0
Handler Version:	1.0.2315.14795
Status:	Extended
IIS Instance ID:	1
- Options**: A section with instructions and radio button options for "Remove", "Repair and leave current configuration", and "Repair and reset configuration".

At the bottom right of the main content area, there are "OK" and "Cancel" buttons. The browser's status bar at the bottom shows "Done" and "Local intranet".

Remove SWC

The screenshot shows a web browser window titled "Windows SharePoint Services Connector for WebDAV - Remove Options - Microsoft Internet Explorer". The address bar shows the URL: `http://localhost:12001/RemoveOptions.aspx?Url=http%3a%2f%2fswc%2f&Operation=2`. The page content is as follows:

Windows SharePoint Services Connector for WebDAV
Remove / Repair

Use this page to remove or repair Windows SharePoint Services Connector for WebDAV.

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

Current Virtual Server

Virtual Server Name:	Default Web Site
URL:	<code>http://swc/</code>
Filter Version:	1.0.0.0
Handler Version:	1.0.2315.14795
Status:	Extended
IIS Instance ID:	1

Options

Choose the appropriate operation.

Remove will remove the SwcFilter and the SwcHandler.

Repair and **leave** configuration will repeat all extension steps and resets settings to original values, but does not change the current configuration file.

Repair and **reset** configuration will repeat all extension steps and resets settings to original values, and replaces the current configuration file with the default configuration file.

Remove Windows SharePoint Services Connector for WebDAV.

Repair Windows SharePoint Services Connector for WebDAV and **leave current configuration**.

Repair Windows SharePoint Services Connector for WebDAV and **reset configuration**.

To remove or repair Windows SharePoint Services Connector for WebDAV , the IIS Web Site will be automatically stopped - and restarted after the operation completes.

Please confirm by clicking the OK button again.

To abort, click the Cancel button.

OK Cancel

Remove SWC

Windows SharePoint Services Connector for WebDAV - Installation VList - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail

Address http://localhost:12001/ExtendList.aspx?Operation=0&task=Removing%20Windows%20SharePoint%20Services%20Connector%20for%20WebDAV Go Links >>

Windows SharePoint Services Connector for WebDAV
Virtual Server List

Central Navigation

- End User License Agreement
- Administration
- Configuration Settings
- Database Logging

To perform maintenance tasks for a virtual server, click the virtual server name.

Removing Windows SharePoint Services Connector for WebDAV: successful.

Complete List

Name	URL	Filter Version	Handler Version	Status	IIS Instance ID
Default Web Site	http://swcref/	Not Installed	Not Installed	Not Extended	1

Done Local intranet



-Demo -

**Repair / Uninstall
Windows SharePoint Services
Connector for WebDAV**

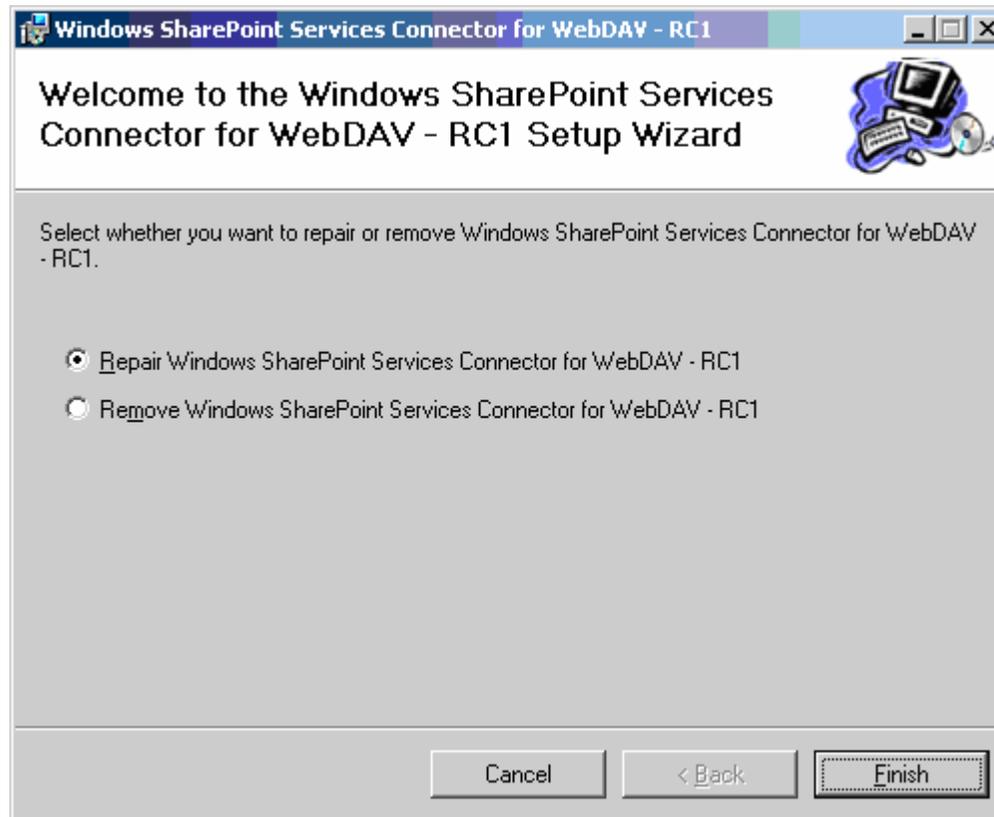
Repair / Uninstall SWC

Currently installed programs: Show updates Sort by: Name

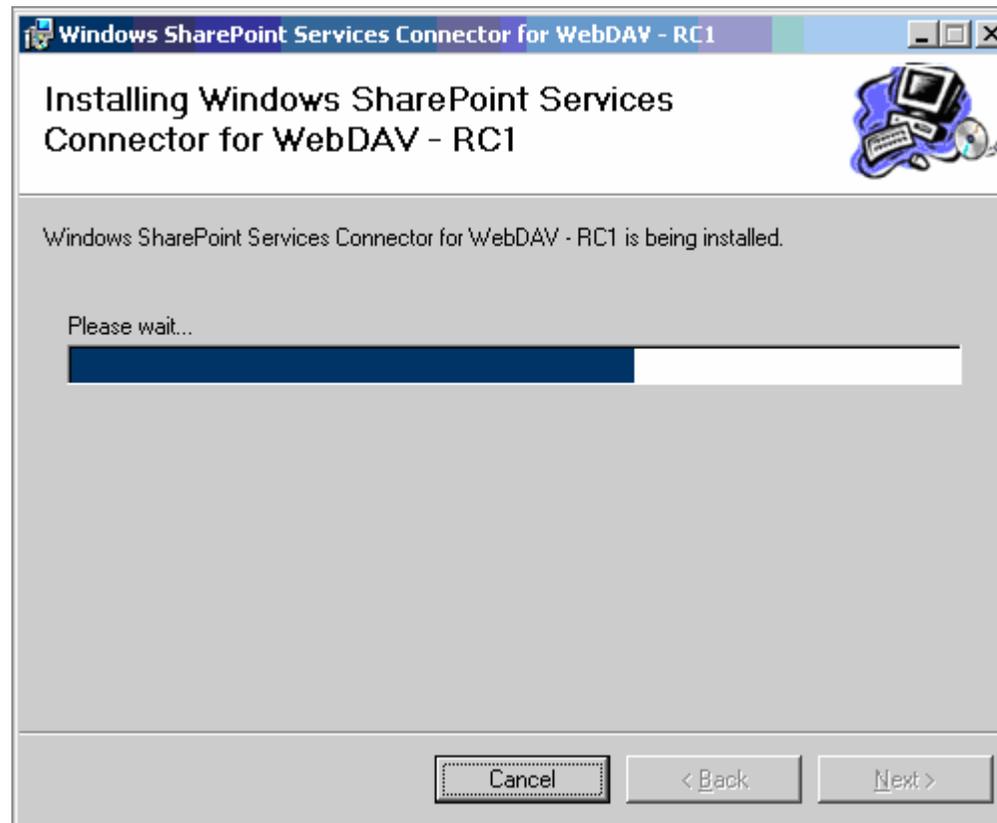
Microsoft SQL Server Desktop Engine (SHAREPOINT)	Size	69.24MB
Microsoft Windows SharePoint Services 2.0	Size	48.05MB
Virtual Machine Additions	Size	0.90MB
Windows Server 2003 Service Pack 1		
Windows SharePoint Services Connector for WebDAV - RC1	Size	<u>1.95MB</u>
Click here for support information.	Used	<u>rarely</u>

To change this program or remove it from your computer, click Change or Remove.

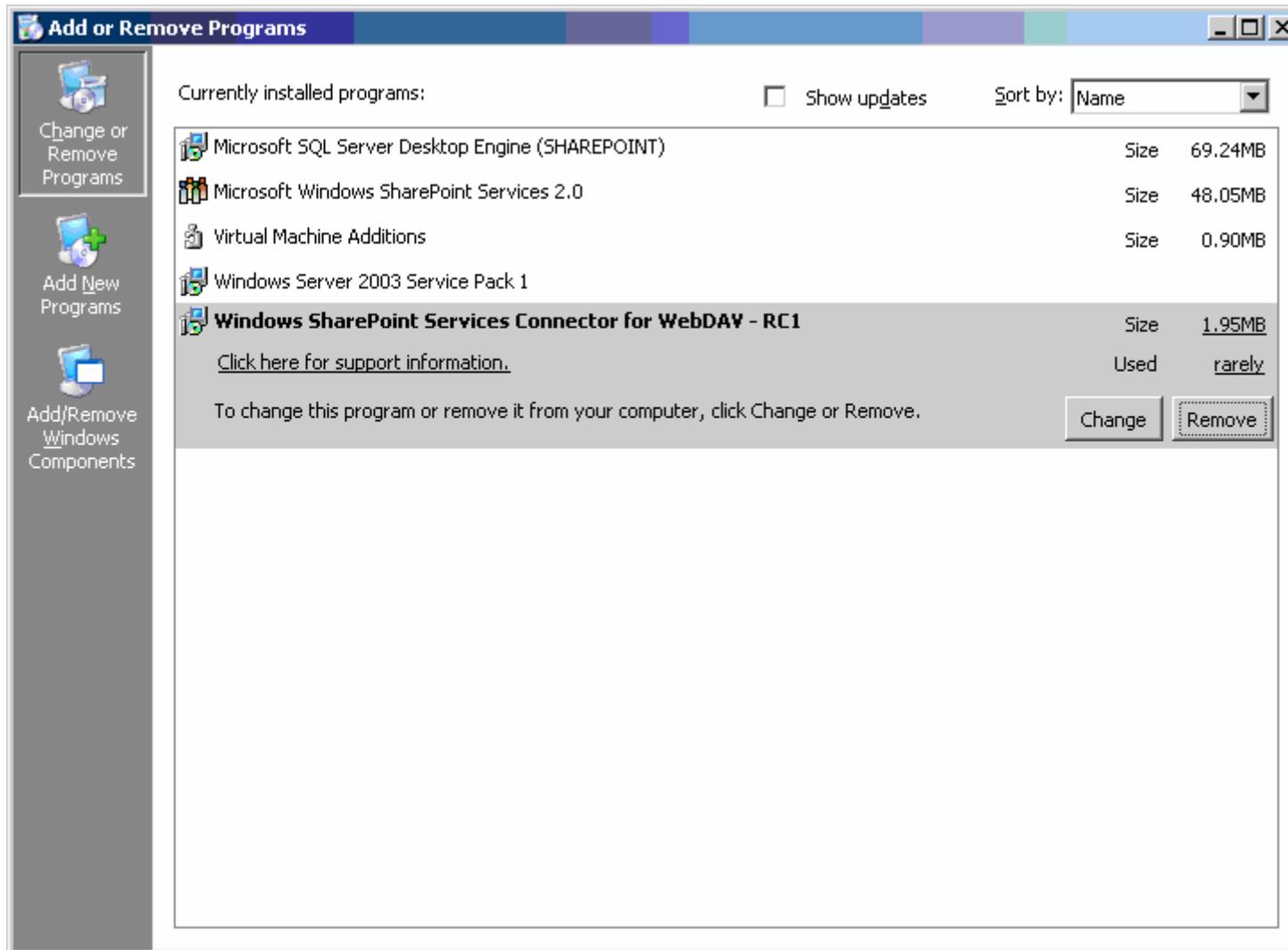
Repair / Uninstall SWC



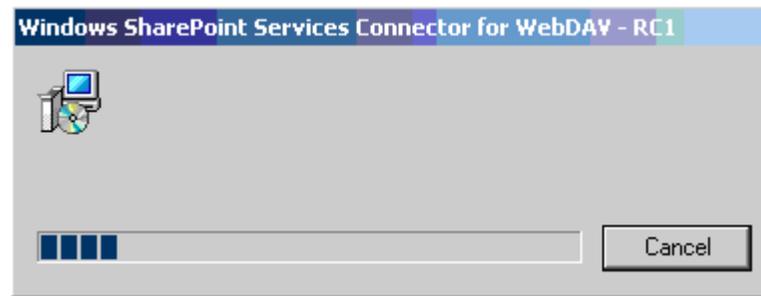
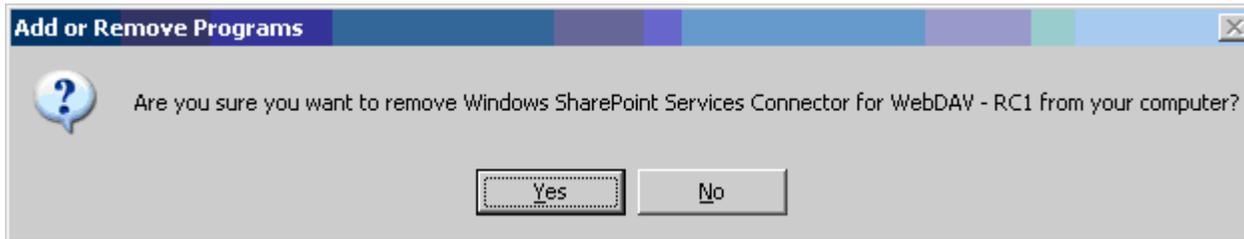
Repair / Uninstall SWC

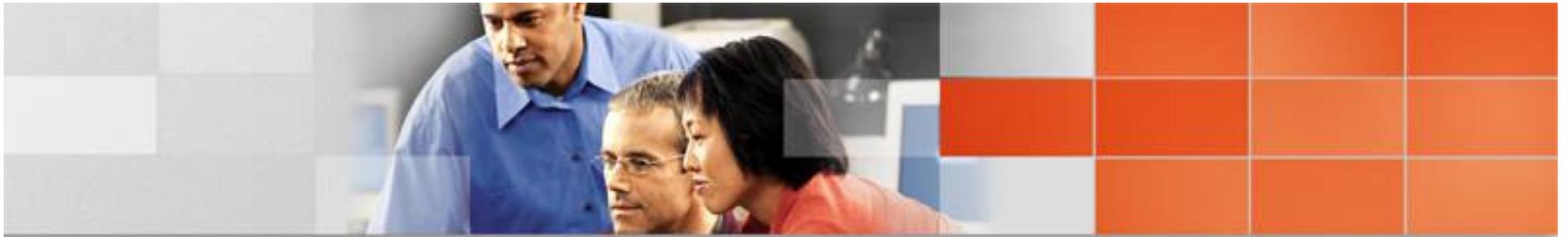


Repair / Uninstall SWC



Repair / Uninstall SWC





Demo

T H E K N O W L E D G E P E O P L E

Thank you for your attention !

Microsoft