



Configuration Guide

Instructions for configuring SLIP components in the SharePoint farm and on the Client Automation Servers

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Document History

Date	Description
March 14, 2011	Started document. Created section on Task List Solution.
June 29, 2011	Updating SLIP Task List solution features section.
July 1, 2011	Started SLIP SharePoint Connector features section.
November 14, 2011	Expanded on schema map example.
August 1, 2012	Added new functions for schema.
September 10, 2012	Added Parse function for schema.
April 15, 2013	Added detailed information on all schema functions.

Introduction

This document aims to guide you through the common configuration points while establishing a SLIP infrastructure and converting and publishing content to a standard SharePoint 2010 web application.

SLIP components are mainly targeted at SharePoint but, depending on requirements, you may have use for the non-SharePoint components as well for specific conversion tasks. This document describes the configuration process required to setup SLIP:td in a SharePoint farm.

High-level SLIP:td solution and features overview

The table shows all the SLIP:td SharePoint solutions and features and the different scope levels they are installed and activated on

Solution / Feature	Site	Site collection	Web application	Farm
SLIP Task List.wsp				
SLIP Task List Infrastructure		<input checked="" type="checkbox"/>		
SLIP Transaction Manage			<input checked="" type="checkbox"/>	
SLIP Clean Up Agent			<input checked="" type="checkbox"/>	
SLIP SharePoint Connector.wsp				
SLIP SharePoint Connector Web Application Configuration (Hidden)			<input checked="" type="checkbox"/>	
SLIP SharePoint Connector	<input checked="" type="checkbox"/>			
SLIP Create Tasks		<input checked="" type="checkbox"/>		
SLIP Redeployment		<input checked="" type="checkbox"/>		
SLIP SharePoint Publishing Foundation.wsp				
SLIP SharePoint Foundation		<input checked="" type="checkbox"/>		
SLIP SharePoint Publishing		<input checked="" type="checkbox"/>		
SLIP SharePoint Page Deployer		<input checked="" type="checkbox"/>		
SLIP HTML Converter Pack.wsp				
SLIP HTML Converter		<input checked="" type="checkbox"/>		
SLIP SharePoint HTML Converter		<input checked="" type="checkbox"/>		
SLIP OOX Converter Pack.wsp				
SLIP OOX Converter Pack		<input checked="" type="checkbox"/>		

SLIP PDF Converter Pack.wsp					
	SLIP PDF Converter Pack		<input checked="" type="checkbox"/>		
SLIP WAS Converter Pack.wsp					
	SLIP WAS Converter Pack		<input checked="" type="checkbox"/>		
SLIP SharePoint Client Automation Services.wsp					
	SLIP CAS Converter Pack		<input checked="" type="checkbox"/>		
SLIP Search.wsp					
	SLIP Search Infrastructure				<input checked="" type="checkbox"/>

Prerequisites

To get the most out of this document you should have a working SharePoint 2010 publishing web site up and running with all the required SLIP:td solutions installed. If you plan to convert and publish other formats than Microsoft Word you should also have a working SLIP Client Automation Server (SLIP CAS) running in your environment.

Refer to the SLIP:td Installation Guide for how to install the SLIP SharePoint solutions and a SLIP CAS.

SLIP Task List Solution

This solution is the foundation for the SLIP:td infrastructure and is required to be implemented in your SharePoint infrastructure. The SLIP Task List solution contains two web application features and a single site collection feature.

The following sections describe each of the features and their configuration options.

SLIP Task List Infrastructure

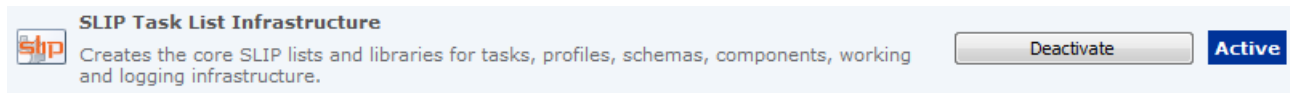
The *SLIP Task List Infrastructure* site collection feature must be activated on minimum one site collection and will automatically create the following base SLIP lists.

- *SLIP Profiles* – list of profiles defining the conversion and deployment rules to be assigned to a task
- *SLIP Components* – list of all available SLIP components organized by type
- *SLIP Log* – list containing all the logging information and errors reported by the SLIP components
- *SLIP Tasks* – the queue of tasks processed according to matching profiles
- *SLIP Work Library* – special document library that acts as a temporary internal storage
- *SLIP Schemas* – items containing the rules for mapping column values to be assigned to a profile

Typically the feature is activated in the root site collection of the web application but it's very flexible and can be running in its own web application or site collection depending on customer requirements.

For the use in this document and to walk-through the configuration steps we'll activate the SLIP Task List infrastructure feature on the root site collection by clicking *Site Settings*, *Site Collection Features* and the Activate button next to the *SLIP Task List Infrastructure* feature.

After a few seconds the feature is activated:



And all the SLIP lists described above should now be available in the left side navigation:

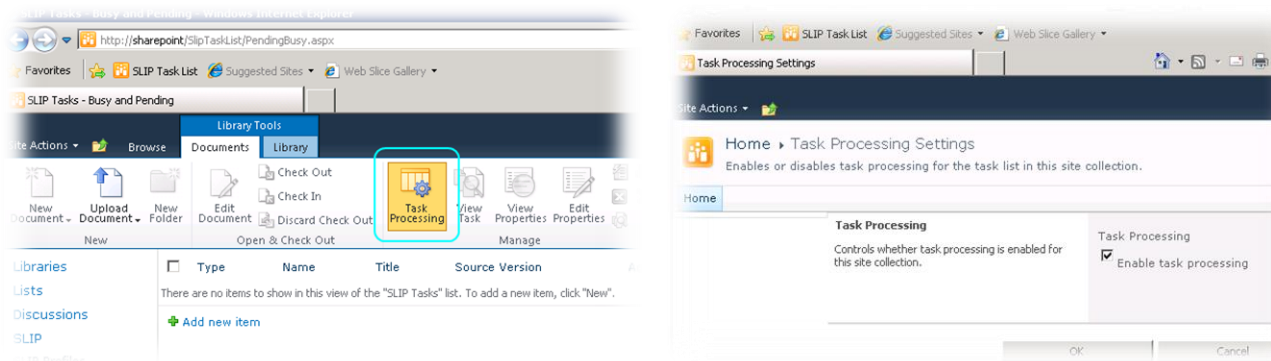


Your SLIP Task List is now created but it can't do anything on its own so for anything interesting to happen we need to activate some more features.

SLIP Transaction Manager

Processing of SLIP tasks can be enabled and disabled by activating or deactivating the transaction manager web application feature within the Central Administration. The *SLIP Transaction Manager* is a SharePoint timer job based solution which monitors all SLIP Task Lists and applies the profiles to pending SLIP tasks and initiates the conversion and deployment process.

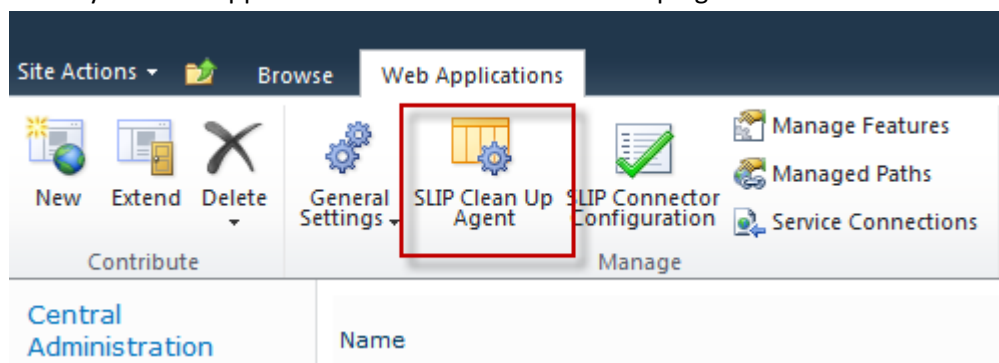
Even though the SLIP Transaction Manager works at web application level, it is possible to enable or disable processing of an individual task lists. This can be done from the task list itself with the toggle button *Task Processing*. For backwards compatibility with SharePoint 2007 the same option is available by clicking *Site Settings*, *Site Collection Administration* and finally *SLIP task processing settings*.



SLIP Clean Up Agent

To keep all the SLIP Task List up to date and clean out all completed or obsolete tasks the *SLIP Clean Up Agent* can be activated on web application level within the Central Administration. After enabling the web application feature on your web application(s) it's now possible to specify the default clean up settings for all SLIP Task Lists created on the selected web application following the below steps.

1. Select your Web Application and click the SLIP Clean Up Agent button as illustrated below:



2. Enter the preferred clean up settings for the web application and click Apply -> OK

SLIP Clean Up Configuration

Web Application:

Scope
Specify the range of tasks to clean up.

Scope

Keep all tasks

Keep only tasks with latest source version

Remove all tasks

Method
Specify whether to delete the tasks permanently or move them to the recycle bin.

Method

Delete

Recycle

Age threshold
Specify how old each task must be before it is considered for removal.

Age Threshold

The settings specified on web application level are default clean up settings for all SLIP Task Lists created within the selected web application. Individual settings can be specified per Task List simply by clicking *Site Settings*, *Site Collection Administration* and finally *SLIP Clean Up Agent configuration* and enter your configuration settings followed by Apply > OK to save the settings.

After activating all the features found in the SLIP Task List infrastructure you're ready to connect your document libraries to the SLIP Task List and process some documents.

SLIP SharePoint Connector Solution

The main purpose of this solution is to SLIP enable your SharePoint based document management system by delivering a simple interface to connect standard SharePoint document libraries and lists to any SLIP Task Lists available within the SharePoint farm.

The *SharePoint Connector* listens for events in your SharePoint libraries and lists and creates tasks for appropriate events.

The SLIP SharePoint Connector solution is not required to be installed and configured since creation of SLIP Tasks can be accomplished directly from custom work flows and/or code using the supplied SLIP Connector interface, which is not currently covered in this document.

The SLIP Task List solution contains 4 features. One feature has web application scope, two have site collection scope and one has site scope.

Scope	Site	Site Collection	Web Application
SLIP SharePoint Connector Web Application Configuration (Hidden)			<input checked="" type="checkbox"/>
SLIP SharePoint Connector	<input checked="" type="checkbox"/>		
SLIP Create Tasks		<input checked="" type="checkbox"/>	
SLIP Redeployment		<input checked="" type="checkbox"/>	

The following sections describe each of the features and their configuration options.

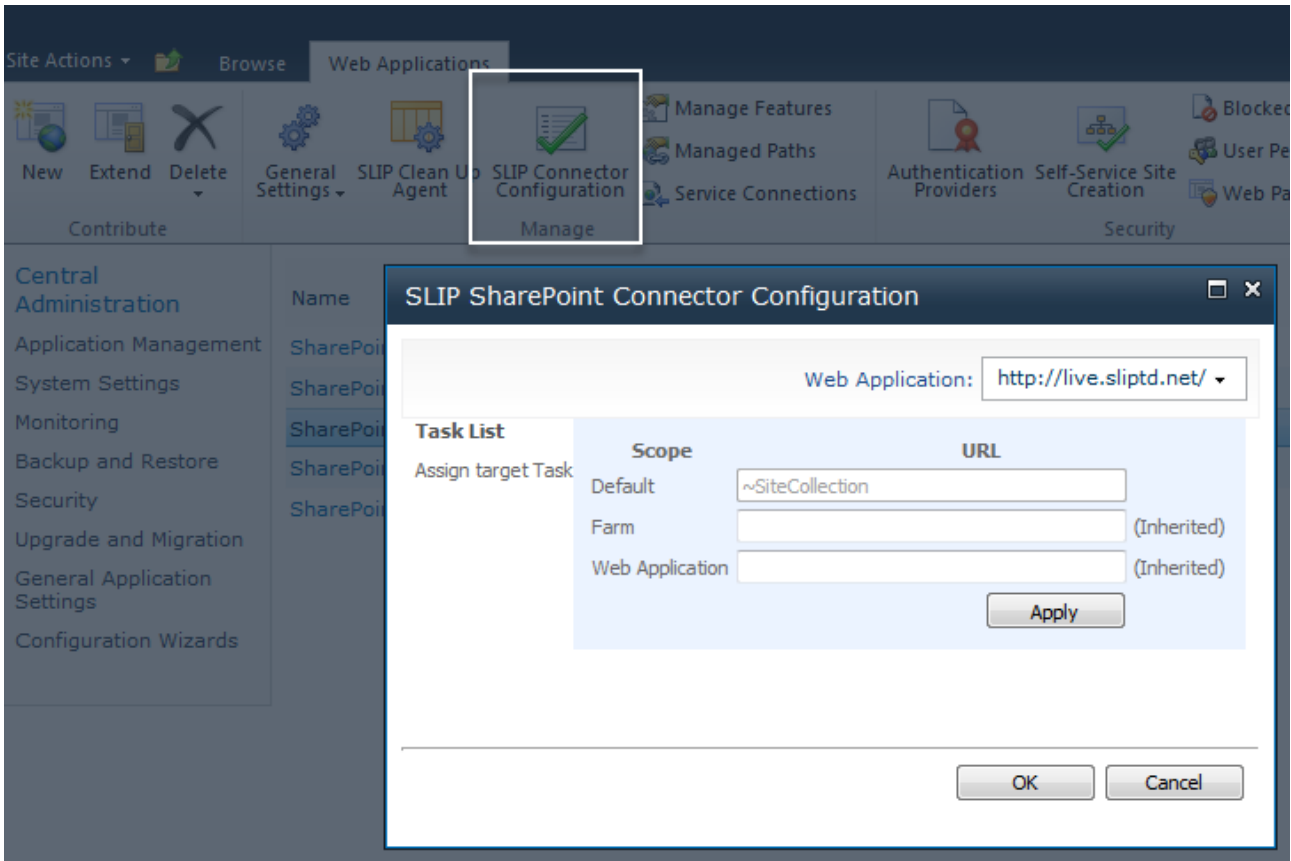
SLIP SharePoint Connector Web Application Configuration

The *SLIP SharePoint Connector Web Application Configuration* is a hidden web application scoped feature activated by default. The feature installs the SLIP SharePoint Connector Configuration pages and ribbon action menu buttons used to specify target task list settings. The different configuration points are covered in the next section.

SLIP SharePoint Connector

Besides configuration of list and library synchronization the SharePoint Connector enables you to configure which task list should receive the generated tasks, i.e. the target task list. The synchronization control is available only at site level through Site Settings, Site Administration and finally SLIP SharePoint Connector. The target task list can be configured for all farm levels from site to farm level. To configure the target task list for site or site collection level use the configuration page under Site Administration.

To configure the default target task list for web application or farm level go to *Central Administration, Application Management, Manage web applications*. Then click *SLIP Connector Configuration* to edit the target task list settings.



By Default the connector will target a task list at the site collection from which the list or library item event originates (defined by ~SiteCollection).

The *Farm* input box allows you to specify a fully qualified URL e.g. <http://administration.sliptd.com:8001> to the site collection hosting a SLIP Task List. The Farm setting will be used as the default configuration setting for all web applications created within the farm.

The *Web Application* setting can again be a fully qualified URL e.g. <http://administration.sliptd.com:8001> or a relative path like / which will send all tasks to the SLIP Task list created in the root of the web application. This is a common configuration for customer using many site collections and wants to use a central Task List within the same web application.

For a basic setup use or create a simple document library within the same site collection where your task list exists. In our sample solution described in this document we use a single site collection with multiple sites. A site

Then enable the SLIP SharePoint Connector feature within that site and open the configuration page at *Site Settings, Site Administration* and finally *SLIP SharePoint Connector*.

In the *Synchronization Events* column click *Enable* next to the source list or document library to enable synchronization event handlers. Now, depending on the versioning settings for the library, a SLIP task will be created in the task list each time a document is checked in/out, edited, uploaded or deleted.

If you have configured the SLIP Profile you should be able to view the published result in a few seconds. Go to the task list to monitor progress.

Please note that if you use the *SLIP Document Converter* or use the *SLIP Task List Interface* programmatically you do not need to enable synchronization.

See *SLIP:td Getting Started Guide* for further details on getting started with the SLIP SharePoint Connector Solution.

In the following the sections you'll learn how to activate the SLIP SharePoint Connector and configure it to automatically synchronize all documents in a standard SharePoint Library with the SLIP Task List.

Follow the procedure below to activate the SLIP SharePoint Connector feature on your document site(s)

1. Open the SharePoint site hosting the source documents/libraries
2. Click *Site Actions > Site Settings*
3. Click *Manage site features* in the *Site Actions* section
4. Activate the *SLIP SharePoint Connector* site feature



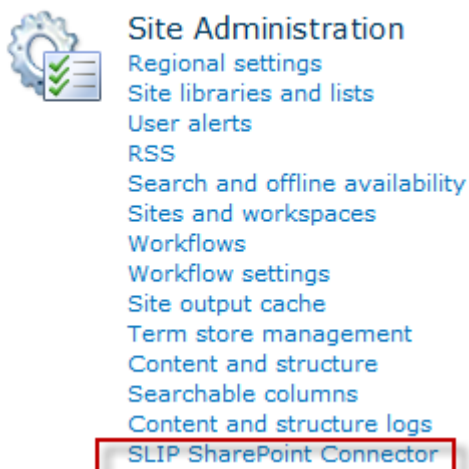
5. Click Site Settings in the bread crumbs and locate the new **SLIP SharePoint Connector** link found in the Site Administration section

SLIP SharePoint Connector Configuration

Follow the procedures below to configure the SLIP SharePoint Connector to automatically synchronize documents with your SLIP Task List for transformation and deployment to your web site.

NOTE: If you use the *SLIP Document Converter* or use the *SLIP Task List Interface* programmatically you do not need to enable synchronization.

1. Open the SharePoint site hosting the source documents/libraries
2. Click Site Actions > Site Settings
3. Click the new **SLIP SharePoint Connector** link found in the Site Administration section



- On the SLIP SharePoint Connector Configuration page all Document Libraries available on the current site are listed in an alphabetical order.

List	Synchronization Events	Context Event
Documents	Enabled <input type="button" value="Disable"/>	Disabled <input type="button" value="Enable"/>
Images	Disabled <input type="button" value="Enable"/>	Disabled <input type="button" value="Enable"/>
Master Page Gallery	Disabled <input type="button" value="Enable"/>	Disabled <input type="button" value="Enable"/>
Pages	Disabled <input type="button" value="Enable"/>	Disabled <input type="button" value="Enable"/>
Workflow Tasks	Disabled <input type="button" value="Enable"/>	Disabled <input type="button" value="Enable"/>

Task List
Assign target Task List.

Scope	URL
Default	<input type="text" value="~SiteCollection"/>
Farm	<input type="text"/> (Inherited)
Web Application	<input type="text"/> (Inherited)
Site Collection	<input type="text"/> (Inherited)
Site	<input type="text"/> (Inherited)

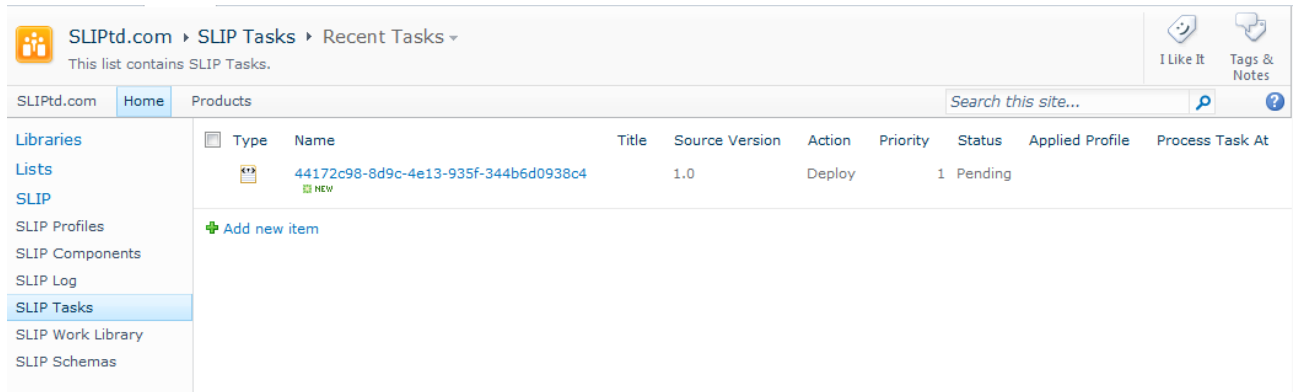
- Click the Enable button next to your document library either under the **Synchronization Events** (will automatically create tasks in the Task List).
 NOTE: The **Context Event** requires special action buttons implemented into your Document Library context menu or workflow.
- In the Task List section below you can leave the inherited settings defined on web application level earlier in this document or specify individual site setting if you need to connect documents to a special Task List.

Task List
Assign target Task List.


Scope	URL
Default	<input type="text" value="~SiteCollection"/>
Farm	<input type="text"/> (Inherited)
Web Application	<input type="text"/> (Inherited)
Site Collection	<input type="text"/> (Inherited)
Site	<input type="text"/> (Inherited)

- Click OK to finish the SLIP SharePoint Configuration

8. Try to upload and check in a Microsoft Word 2010 (.DOCX) source document as a major version into your document library and verify a task is created in the SLIP Task list



The screenshot shows the SLIPtd.com interface. The breadcrumb navigation is SLIPtd.com > SLIP Tasks > Recent Tasks. Below the breadcrumb, it says "This list contains SLIP Tasks." There are navigation tabs for Home and Products, and a search bar with the text "Search this site...". On the left, there is a sidebar menu with options: Libraries, Lists, SLIP, SLIP Profiles, SLIP Components, SLIP Log, SLIP Tasks (highlighted), SLIP Work Library, and SLIP Schemas. The main content area displays a table with the following data:

Type	Name	Title	Source Version	Action	Priority	Status	Applied Profile	Process Task At
	44172c98-8d9c-4e13-935f-344b6d0938c4 <small>NEW</small>		1.0	Deploy	1	Pending		




Below the table, there is a link: [Add new item](#)

9. Refresh the Task List and the status will soon change the Complete.

Configuration of SLIP:td

After you have successfully connected your document library to a task list and seen a task gets processed the SLIP:td foundation is in place but we're not ready yet!

Open the SLIP Log list and you'll notice that even the Deployment completed the "The profile 'Default' does not have any process defined. No preparation, conversion or deployment entries are defined."

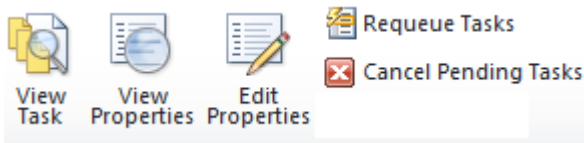
-  Deployment of " 1.0 completed in 373.9ms
-  The profile 'Default' does not have any process defined. No preparation, conversion or deployment entries are defined.
-  SLIP Infrastructure successfully activated

In the next steps we'll apply a conversion and deployment process matching our business requirements for automating the content flow between authors and consumers.

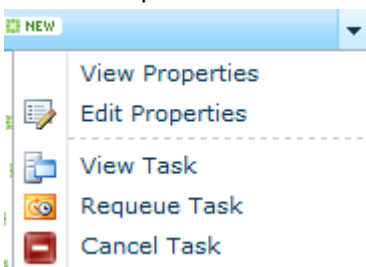
Useful SLIP Task List Actions Buttons

Working within the SLIP Task List as an administrator or while configuring SLIP a set of useful actions buttons are available and worth knowing.

When a SLIP Task is selected within the SLIP Task List the below buttons are selectable in the Documents Ribbon tool bar



The same options are available from the item action menu



View/Edit Properties

Standard SharePoint Properties actions which are often used to view or change Properties of a SLIP Task.

View Task action button

Each SLIP task contains the source file and a set of metadata properties including information about where the document is stored. The view task action is useful when configuring SLIP:td or need to get a pointer to the location of the source document or the output deployed by SLIP:td.

Figur 1 Example of a Viewed Task

"SLIP:td Out of the Box Components List" 6.0 (74040ad1-72ba-4ce6-aaba-d174437c6553)
 Publication ID: c976511c-7722-43b5-b3bc-4103ca8a69ec

State		Sources		
Name	Value	Filename	Content Type	Creator
Original Action	Deploy	SLIP-OOTB-Components-List.docx	application/vnd.openxmlformats-officedocument.wordprocessingml.document	SharePoint Connector/source
Current Action	Deploy			
Preferred Profile	-			
Applied Profile	Products			
Status	Complete			
Priority	1			
Process Task At	-			

Targets

URL
<http://sliptd.com/products/Pages/SLIP-td-Out-of-the-Box-Components-List.aspx>

Publication Properties		
Name	Type	Value
_checkincomment	String	15;#
_editmenutablestart2	String	15
_iscurrentversion	Boolean	True
_uiversion	Int32	3072
_uiversionstring	String	6.0
author	String	2;#office\fb
authorlogin	String	OFFICE\fb
authorname	String	office\fb
basename	String	SLIP-OOTB-Components-List
checkedouttitle	String	15;#
checkedoutuserid	String	15;#
combine	String	0
contenttype	String	Document
contenttypeid	String	0x01010056812f3ef485404297c5386755cbdd09
created	DateTimeOffset	9/1/2011 12:58:08 PM +02:00
docconcurrencynumber	String	11;#
docicon	String	docx
edit	String	0
editor	String	2;#office\fb
editorlogin	String	OFFICE\fb
editorname	String	office\fb
encodedabsurl	String	http://sliptd.com/products/Documents/SLIP-OOTB-Components-List.docx
file type	String	docx
filedirref	String	/products/Documents
fileleafref	String	SLIP-OOTB-Components-List.docx
fileref	String	/products/Documents/SLIP-OOTB-Components-List.docx
filesize	Int64	532126
filesizedisplay	String	532126
guid	String	{4E129971-5801-4ED3-86E3-1EE0943C5C45}
id	Int32	15
initiatorlogin	String	OFFICE\fb
initiatorname	String	office\fb
level	String	Published
linkfilename	String	SLIP-OOTB-Components-List.docx
linkfilename2	String	SLIP-OOTB-Components-List.docx
linkfilenamemenu	String	SLIP-OOTB-Components-List.docx
listid	String	c8765ea5-27ef-4067-9889-146e84ee2fc3
listname	String	Documents
listtitle	String	Documents

Queue Tasks

Use this action to change the change the Task status from Failed or Completed to Pending to start the conversion process again.

Cancel Pending Tasks

Use this action to cancel one or more Pending tasks

SLIP Profile

Open the SLIP Profiles list <http://siteName/Lists/SlipProfileList/AllItems.aspx> and locate the existing entry named Default.

Figur 2 Illustration of the Default SLIP Profile matching all incoming tasks

The screenshot shows the configuration interface for a SLIP Profile named 'Default'. The interface includes a ribbon with 'Edit' selected, containing buttons for Save, Cancel, Paste, Copy, Delete Item, Attach File, and Spelling. Below the ribbon are several input fields: Title (Default), Matching Sequence (1,000), Property Name, Property Value, Schema (Default), and External Processing (checked). There are three sections for Preparation, Conversion, and Deployment, each with a 'Component' header and a 'New Entry' button. At the bottom, there are 'Save' and 'Cancel' buttons and a metadata section showing creation and modification dates and users.

SLIP Profiles are automatically assigned to Pending tasks by the SLIP Transaction Manager timer job based on the sequence and matching rule specified on the Profile(s). A SLIP Profile is basically a rule set for what to do with a task in other words how to convert the incoming document and where to deploy the output to.

The best way to learn how a SLIP Profile works and can be configured to meet our business requirements are learning by examples. In the following sections we'll built a Profile named *Products* which will match incoming tasks from a specific folder within a standard SharePoint document library.

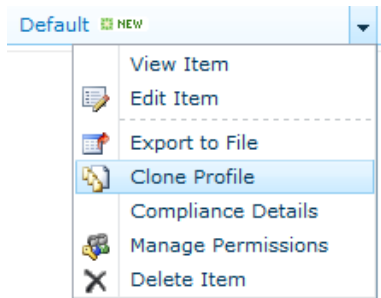
Step by step we'll add SLIP components to the profile and enable html and pdf publishing to an internet/intranet facing SharePoint Publishing site.

Let's get started and create our own *Products* Profile used in all samples in the rest of this guide.

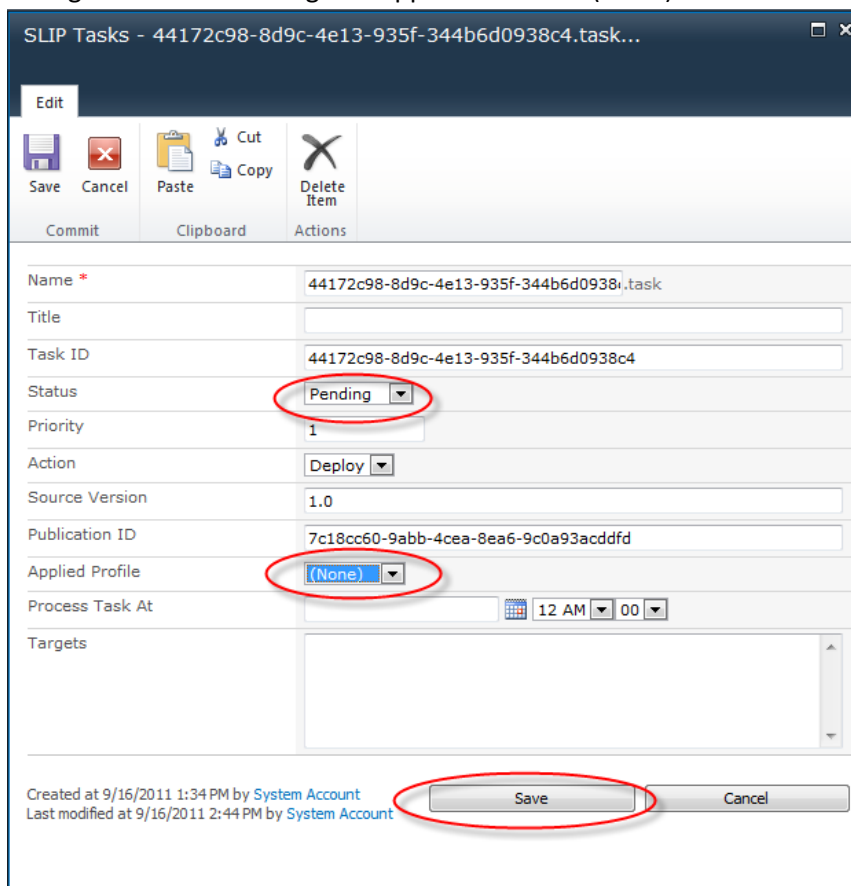
Clone a Profile

Within the SLIP Profiles list it's possible to make a copy of an existing Profile which makes it very easy to reuse exiting Profile settings and simply amend the changes to meet the new business requirements. In our sample we'll clone the default profile and make a new Products profile.

1. Open the SLIP Profiles list
2. Select the Default profile from the action menu and click Clone Profile.



3. Edit the newly cloned Profile and change the title to *Products* and the Matching sequence to 50
4. Save the profile
5. Open the SLIP Task list and Edit Properties on the existing Completed task
6. Change Status to Pending and Applied Profile to (None)



7. Save the task

8. Refresh the Task List and the new Products profile is now applied to the task due to the lower Matching sequence number.

Type	Name	Title	Source Version	Action	Priority	Status	Applied Profile
	44172c98-8d9c-4e13-935f-344b6d0938c4 <small>NEW</small>		1.0	Deploy	1	Busy	Products

Property matching and sequence

The underlying SLIP Transaction Manager attempts to match each profile sequentially based on the Matching sequence number amended to each profile (lowest number first).

To match anything before the Default profile shipped with the Standard SLIP:td solution a profile with a lower matching sequence number must be created. If you like to match specific tasks and apply a different conversion and/or deployment profile it's possible to do so using property name and value matching.

In the sample below the Matching Sequence is set to 50 and will only match tasks with an exact SharePoint *sitetitle* property value of "Products". The property value can be a simple string or as illustrated below a regular expression.

Matching Sequence	50
Property Name	sitetitle
Property Value	^Products\$

Edit the Products profile and apply the above Property name "sitetitle" and Property value "^Products\$" and save the profile again.

Schema

The schema enables mapping of metadata properties to publishing fields. There are a number of mapping functions available that allow you to adjust the published values significantly. The following is a sample schema that includes examples of all available functions. Below that you'll find technical descriptions of each one.

```
<Map xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```
  <Mapping TargetName="SlipVersion">
    <Property>_uiversionstring</Property>
  </Mapping>
```

```
  <Mapping TargetName="Modified">
    <Property>Modified</Property>
  </Mapping>
```

```
  <Mapping TargetName="Created">
    <Property>Created</Property>
  </Mapping>
```

```
  <Mapping TargetName="Author">
    <Property>Author</Property>
  </Mapping>
```

```
<Mapping TargetName="Editor">
  <Property>Editor</Property>
</Mapping>

<Mapping TargetName="Comments">
  <Property>Comments</Property>
</Mapping>

<Mapping TargetName="TaxKeyword">
  <Property>taxkeyword</Property>
</Mapping>

<Mapping TargetName="TaxOrganization">
  <Property>taxorganization</Property>
</Mapping>

<Mapping TargetName="Departments">
  <Regex Expression="^(?:\d+;#)?(.*)$" Replacement="$1">
    <Property>departments</Property>
  </Regex>
</Mapping>

<Mapping TargetName="Extension">
  <Regex Expression="(\.[^.]+)$">
    <Property>filename</Property>
  </Regex>
</Mapping>

<Mapping TargetName="Category">
  <Value xsi:type="xs:string">Main</Value>
</Mapping>

<Mapping TargetName="Expires">
  <Value xsi:type="xs:dateTime">2018-03-15T10:00:00+01:00</Value>
</Mapping>

<Mapping TargetName="ModifiedFormatted">
  <Format Pattern="m" Culture="en-US">
    <Property>Modified</Property>
  </Format>
</Mapping>

<Mapping TargetName="SlipDmsDocumentUrl">
  <Concat Prefix="" Separator="" Postfix="">
    <Property>SiteUrl</Property>
    <Property>SiteRelativeDisplayFormUrl</Property>
    <Value xsi:type="xs:string">?ID=</Value>
    <Property>Id</Property>
  </Concat>
</Mapping>

<Mapping TargetName="DeployerContentType">
  <Conditional>
    <Equals>
      <Operand>
        <Property>doctype</Property>
      </Operand>
    </Equals>
  </Conditional>
</Mapping>
```

```
        </Operand>
        <Operand>
            <Value xsi:type="xs:string">IMAP Document</Value>
        </Operand>
    </Equals>
    <Result>
        <Value xsi:type="xs:string">0x010100527d73a3b86d4d6dafa6128f6177dd75</Value>
    </Result>
</Conditional>
</Mapping>

<Mapping TargetName="DocumentStartDate">
    <Parse Pattern="dd-MM-yyyy" xsi:type="xs:dateTime" Culture="">
        <Property>DocValidFromText</Property>
    </Parse>
</Mapping>

<Mapping TargetName="WordCategory">
    <Slice Take="1" Skip="0">
        <Regex Expression="^\s*(\d+)\s*\.\s*(.)*\s*$" Replacement="$2">
            <Property>Category</Property>
            <Property>ITCategory</Property>
            <Property>HRCategory</Property>
            <Property>OBFCategory</Property>
        </Regex>
        <Value xsi:type="xs:string">Office Procedures</Value>
    </Slice>
</Mapping>

<Mapping TargetName="TargetPath">
    <Concat Prefix="/" Separator="/" Postfix="/">
        <Transliterate>
            <Regex Expression="\W+" Replacement="-">
                <Regex Split="\s*:\s*">
                    <Property>Structure</Property>
                </Regex>
            </Regex>
        </Transliterate>
    </Concat>
</Mapping>
```

</Map>

- *Property* names are **not** case-sensitive.
- The *Format*, *Regex*, *Parse*, *Concat*, *Operand*, *Parse*, *Slice* and *Result* functions allows functions as nested input values.
- For the *Regex* function, the *Replacement* attribute is optional and the result will be the matched value if that attribute is not present.
- For the *Parse* function, the *Pattern* and *Culture* attributes are optional. If the *xsi:type* attribute is not specified or supported, the output type defaults to string. The *Pattern* and *Culture* do not apply to all output types.
- If no format or parse culture is specified, the invariant culture is used.
- The *Culture* reference may be either a decimal LCID or a *Culture Name* from the table at [National Language Support \(NLS\) API Reference](#).

The following table provides links to detailed information on the format syntax that can be used for the various property types.

Type	Standard format strings	Custom format strings
Number	Standard Numeric Format Strings	Custom Numeric Format Strings
Date and time	Standard Date and Time Format Strings	Custom Date and Time Format Strings
Duration	Standard TimeSpan Format Strings	Custom TimeSpan Format Strings



MetadataMap.dtd



MetadataMap.xsd

Mapping

Usage: `<Mapping TargetName="FieldName">...</Mapping>`

The *Mapping* element points to a publishing field that should receive the values enclosed in the element.

Elements:

- *Custom* – this optional element may contain deployer-specific key/value properties.

Attributes:

- *TargetName* – this required attribute specifies the name of the destination publishing field.

Property

Usage: `<Property>Task property name</Property>`

The *Property* element selects the values of a task property. The contents of the element specifies the name of the task property. Please note that a task property may contain more than one value.

Elements:

The Property element does not contain child elements.

Attributes:

The Property element does not contain attributes.

Regex

Usage:

```
<Regex Expression="\d+">...</Regex>  
  
<Regex Expression="(\d+;#)?(.*)" Replacement="$2">...</Regex>  
  
<Regex Expression="(\d+;#)?(.*)">  
    <Replacement>...</Replacement>  
  
</Regex>
```

`<Regex Split="\s*:\s*">...</Regex>`

The *Regex* element executes a regular expression over each input value. If you specify the *Replacement* attribute, the result is the replaced value. If you omit the *Replacement* attribute, the result is the matched value. If you specify the *Split* attribute, the result is a set of substrings. The *Expression* and *Split* attributes are mutually exclusive and you cannot use the *Replacement* attribute or the *Replacement* element along with the *Split* attribute either. Please note that each input value results in an output value for non-split operations. Any input values that are not of type string are converted to their string representation using the invariant culture.

Elements:

- *Property*
- *Regex*
- *Value*
- *Format*
- *Concat*
- *Conditional*
- *Parse*
- *Slice*
- *Replacement*

Attributes:

- *Expression* – this required attribute defines the regular expression pattern.
- *Replacement* – this optional attribute defines the replacement pattern.
- *Split* – this optional attribute defines the split pattern.

Now

Usage: `<Now Zone="PT2H" />`

The *Now* element evaluates to the current date and time. You may specify a specific time zone or use the default local time zone.

Elements:

The Now element does not contain child elements.

Attributes:

- *Zone* – this optional attribute allows you to control the time zone associated with the output date time. Use “z” or “utc” (not case-sensitive) for [zulu time](#). If no value is present, the local time zone is used. You can specify any other value as an [ISO 8601 duration](#).

Please note that if you only require a date value, you can use the *Format* function to output the required bits.

Value

Usage: <Value xsi:type="...">...</Value>

The *Value* element contains a static value that accepts a type designation like string or date.

Elements:

The Value element does not contain child elements.

Attributes:

- *xsi:type* – this optional attribute specifies how the system should interpret the element contents.

The following types have meaning for the SLIP schema. The system will read any other value as a simple string.

xsi:type	Example	Reference
xs:anyURI	http://sliptd.com/solutions	http://www.w3.org/TR/xmlschema-2/#anyURI
xs:duration	P1DT12H	http://www.w3.org/TR/xmlschema-2/#duration http://en.wikipedia.org/wiki/ISO_8601#Durations
xs:dateTime	2002-10-10T12:00:00-05:00	http://www.w3.org/TR/xmlschema-2/#dateTime http://en.wikipedia.org/wiki/ISO_8601#Dates
xs:float	12.78e-2	http://www.w3.org/TR/xmlschema-2/#float
xs:double	1267.43233E12	http://www.w3.org/TR/xmlschema-2/#double
xs:int	126789675	http://www.w3.org/TR/xmlschema-2/#int
xs:long	12678967543233	http://www.w3.org/TR/xmlschema-2/#long
xs:short	12678	http://www.w3.org/TR/xmlschema-2/#short
xs:unsignedByte	193	http://www.w3.org/TR/xmlschema-2/#unsignedByte
xs:decimal	12678967.543233	http://www.w3.org/TR/xmlschema-2/#decimal
xs:boolean	true	http://www.w3.org/TR/xmlschema-2/#boolean
xs:string	Pretty much anything.	http://www.w3.org/TR/xmlschema-2/#string

Format

Usage: <Format Pattern="m" Culture="da-DK">...</Format>

The *Format* element converts a typed value into a string representation.

Elements:

- *Property*
- *Regex*
- *Value*
- *Format*
- *Concat*
- *Conditional*
- *Parse*
- *Slice*

Attributes:

- *Pattern* – this required attribute defines pattern for the output format. Please refer to the following table for possible values:

Type	Standard format strings	Custom format strings
Number	Standard Numeric Format Strings	Custom Numeric Format Strings
Date and time	Standard Date and Time Format Strings	Custom Date and Time Format Strings
Duration	Standard TimeSpan Format Strings	Custom TimeSpan Format Strings

- *Culture* – this optional attribute may be either a decimal LCID or a *Culture Name* from the table at [National Language Support \(NLS\) API Reference](#). If this attribute is missing, the invariant culture is used.

Concat

Usage: <Concat Prefix="..." Separator="..." Postfix="...">...</Concat>

The *Concat* element glues several values together as one using optional prefix, postfix and separator values.

Elements:

- *Property*
- *Regex*
- *Value*
- *Format*
- *Concat*
- *Conditional*
- *Parse*
- *Slice*

Attributes:

- *Prefix* – this optional attribute specifies the beginning of the resulting string.
- *Separator* – this optional attribute defines the separator value.
- *Postfix* – this optional attribute specified the ending of the resulting string.

Transliterate

Usage:

```
<Transliterate>  
...  
</Transliterate>
```

The *Transliterate* element maps any non-ascii character to one or more roughly equivalent ascii characters.

Elements:

- *Property*
- *Regex*
- *Value*

- *Format*
- *Concat*
- *Conditional*
- *Parse*
- *Slice*

This function has no attributes.

Conditional, Equals, NotEquals, Contains, Operand, Result

Usage:

```
<Conditional>  
  <Test>  
    <Operand>...</Operand>  
    <Operand>...</Operand>  
  </Test>  
  <Result>  
    ...  
  </Result>  
</Conditional>
```

The *Conditional* element yields its result only if the test operation evaluates to true.

Elements:

- *Equals* – this test operation is true when the values in the first operand are the same as the values in the second operand and they have the same order.
- *NotEquals* – this test operation is true when the values in the first operand are different from the values in the second operand or they have a different order.
- *Contains* – this test operation is true when all the values in the second operand are also present in the first operand. The order is irrelevant.
- *Result* – when the conditional test operation is true, this is the result.

Parse

Usage: `<Parse Pattern="..." Culture="..." xsi:type="...">...</Parse>`

The *Parse* element glues several values together as one using optional prefix, postfix and separator values.

Elements:

- *Property*
- *Regex*
- *Value*
- *Format*
- *Concat*
- *Conditional*
- *Parse*
- *Slice*

Attributes:

- *Pattern* – this optional attribute defines the input format pattern for date time values. Please refer to the following links for possible values: [Standard Date and Time Format Strings](#), [Custom Date and Time Format Strings](#).
- *Culture* – this optional attribute may be either a decimal LCID or a *Culture Name* from the table at [National Language Support \(NLS\) API Reference](#). If this attribute is missing, the invariant culture is used.
- *xsi:type* – this optional attribute specified the output type for the parse operation.

Slice

Usage: <Slice Skip="..." Take="...">...</Slice>

The *Slice* element picks a specific range of values from a value list. You may skip some values at the beginning and specify how many values to include.

Elements:

- *Property*
- *Regex*
- *Value*
- *Format*
- *Concat*
- *Conditional*
- *Parse*
- *Slice*

Attributes:

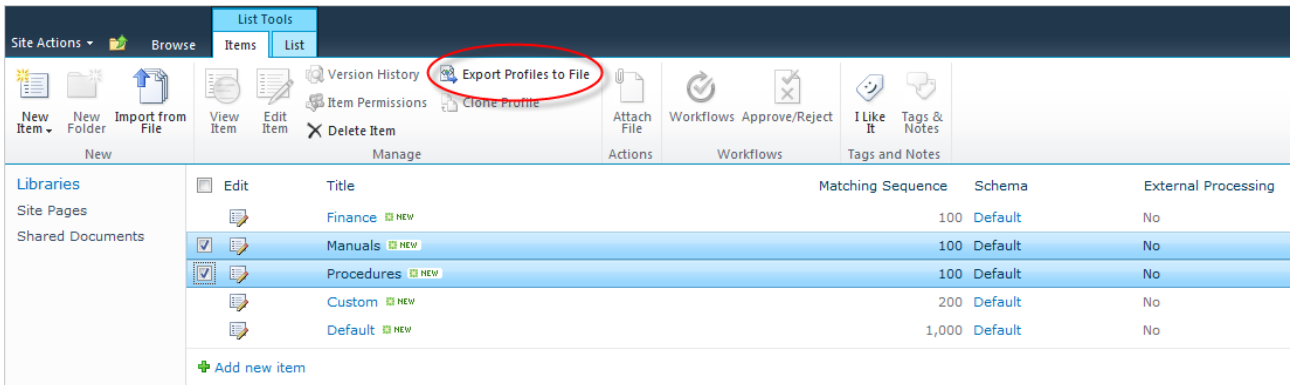
- *Skip* – this optional attribute specifies how many values to skip at the beginning.
- *Take* – this optional attribute specified how many values to include.

Profile and Schema Export / Import

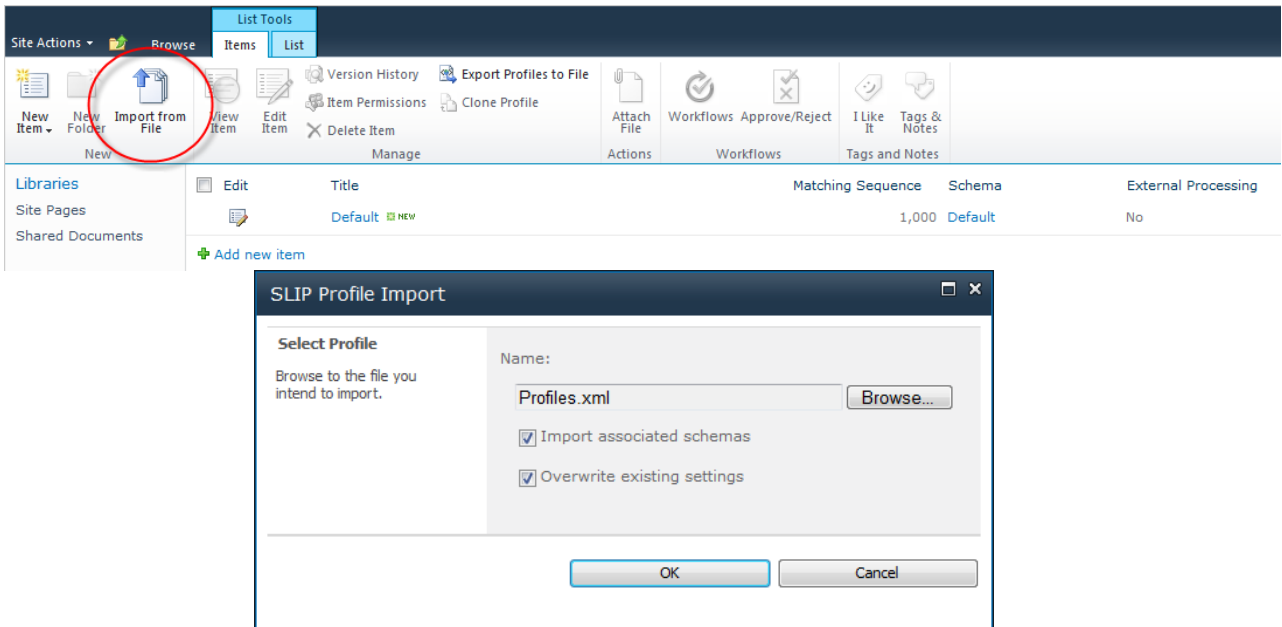
To move profile and schema settings from one system to another or to back up and restore those settings, the SLIP:td infrastructure provides powerful export and import functionality.

To export one or more profiles, please go to the *SLIP Profiles* list. Here you can choose to export all the profiles listed and their associated schemas by simply clicking the *Export Profiles to File* button or you can pick out the relevant profiles by ticking the checkbox for each one and then click the export button.

Please beware that only schemas that are used by the exported profiles are included in the export. Therefore orphan schemas may be lost in a backup-cleanup-restore cycle.



The data for the selected profiles and the associated schemas is written to a single XML file. You are free to edit this file before importing the data again. Using a simple text editor to do search and replace in a profile data file may be the easiest way to change several profiles or schemas in one go.



To perform an import, go to the *SLIP Profiles* list where you wish to store your new or updated profiles. Click the *Items* tab and in the *New* section click *Import from File*. In the Profile Import dialog window browse to the profile data file and adjust the import options if necessary.

- Uncheck *Import associated schemas* to skip schema import and only import profiles.
- Uncheck *Overwrite existing settings* to not update existing profiles and schemas, but rather create new ones even though the existing ones have the same title as the imported ones.

When you perform an import, profiles and schemas are matched by title. This means that when overwriting existing settings, a profile or a schema is considered the same item if it has the same title. Also imported profiles are associated by schema using the title value.

If you have several profiles or schemas with the same title, this may lead to surprising results when importing, so in general it is advised to keep profile and schema titles unique. There is no reason why a profile and a schema cannot have the same title, though.

Display SLIP Pages

```
<Slip>
  <Displays>
    <Display Title="Standard">
      <Property Name="*" Value="" />
      <ShowFrontMatter>>false</ShowFrontMatter>
      <ShowEmptySections>>false</ShowEmptySections>
      <UseRedirect>>true</UseRedirect>
      <Structure>
        <Level>
          <Matcher>p.Heading1</Matcher>
          <Matcher>p.Overskrift1</Matcher>
        </Level>
        <Level>
          <Matcher>p.Heading2</Matcher>
          <Matcher>p.Overskrift2</Matcher>
        </Level>
        <Level>
          <Matcher>p.Heading3</Matcher>
        </Level>
      </Structure>
    </Display>
  </Displays>
</Slip>
```

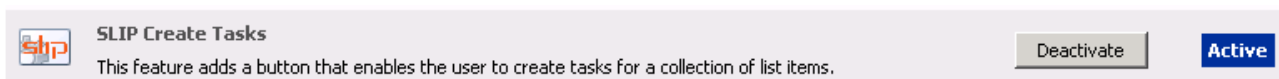
Appendix – How-to

SLIP Create Tasks feature

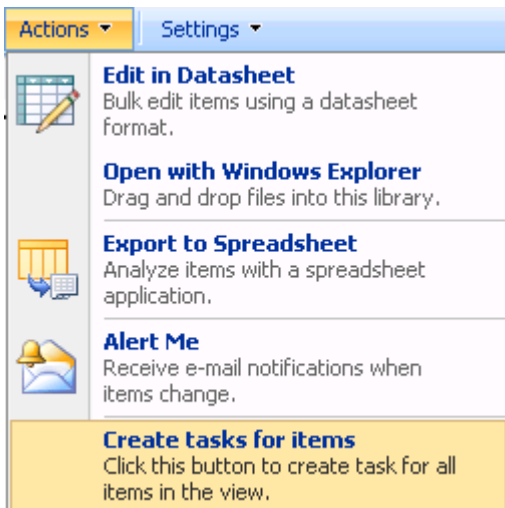
In some cases a need for republish all or a selection of documents are available. For this purpose a special **SLIP Create Tasks** site collection feature has been implemented into the standard SLIP SharePoint connector solution. The button is very helpful but must be used with extreme care and only by trained people and using a special domain user with correct access permissions described later in this document.

How to use the Create tasks for items action button

When the need to republish occurs the SLIP Create Tasks site collection featrure must be activated on site collection level.



When activate a **Create tasks for items** button is added to the Actions menu for all Document Libraries found on all sites and sub sites available within the site collection.



When clicking the “Create tasks for items” button a task for all visible documents in the current view will be created in the SLIP Task List ALSO drafts if the user has permission to see Drafts. Therefore use the button with extreme care and always deactivate the SLIP Create Tasks site collection feature when the process has been completed.

When using the button on document libraries which allow the use of major and minor versions (drafts) you need to be careful not to publish non approved drafts. Below we have described one way to work around it simply by using the correct library settings and a user with only read permissions.

To prevent Drafts/Minor versions being published

1. the Draft Item Security setting is changed to “Only users who can edit items”

Document Library Versioning Settings: Shared Documents

Content Approval Specify whether new items or changes to existing items should remain in a draft state until they have been approved. Learn about requiring approval.	Require content approval for submitted items? <input type="radio"/> Yes <input checked="" type="radio"/> No
Document Version History Specify whether a version is created each time you edit a file in this document library. Learn about versions.	Create a version each time you edit a file in this document library? <input type="radio"/> No versioning <input type="radio"/> Create major versions Example: 1, 2, 3, 4 <input checked="" type="radio"/> Create major and minor (draft) versions Example: 1.0, 1.1, 1.2, 2.0 Optionally limit the number of versions to retain: <input type="checkbox"/> Keep the following number of major versions: <input type="text"/> <input type="checkbox"/> Keep drafts for the following number of major versions: <input type="text"/>
Draft Item Security Drafts are minor versions or items which have not been approved. Specify which users should be able to view drafts in this document library. Learn about specifying who can view and edit drafts.	Who should see draft items in this document library? <input type="radio"/> Any user who can read items <input checked="" type="radio"/> Only users who can edit items <input type="radio"/> Only users who can approve items (and the author of the item)
Require Check Out Specify whether users must check out documents before making changes in this document library. Learn about requiring check out.	Require documents to be checked out before they can be edited? <input type="radio"/> Yes <input checked="" type="radio"/> No

2. Create/use an active directory user with only Read Permissions (e.g. named SLIP Task Creator) to the documents in the library.
 3. Login with the new user and verify the user can't see any drafts in the document library
 4. Make sure the user has the below specified minimum Permission Level to the SLIP Task List.
- NOTE: The built-in “Contribute” role can be used but will allow the user to open and view the task

list, which you might not want.

[Primary](#) > [Site Settings](#) > [Permissions](#) > [Permission Levels](#) > Add a Permission Level

Add a Permission Level

Name and Description

Type a name and description for your permission level. The name is shown on the permissions page. The name and description are shown on the add users page.

Name:

Description:

Permissions

Choose which permissions to include in this permission level. Use the **Select All** check box to select or clear all permissions.

Select the permissions to include in this permission level.

Select All

List Permissions

- Manage Lists - Create and delete lists, add or remove columns in a list, and add or remove public views of a list.
- Override Check Out - Discard or check in a document which is checked out to another user.
- Add Items - Add items to lists, add documents to document libraries, and add Web discussion comments.
- Edit Items - Edit items in lists, edit documents in document libraries, edit Web discussion comments in documents, and customize Web Part Pages in document libraries.
- Delete Items - Delete items from a list, documents from a document library, and Web discussion comments in documents.
- View Items - View items in lists, documents in document libraries, and view Web discussion comments.
- Approve Items - Approve a minor version of a list item or document.
- Open Items - View the source of documents with server-side file handlers.
- View Versions - View past versions of a list item or document.
- Delete Versions - Delete past versions of a list item or document.
- Create Alerts - Create e-mail alerts.
- View Application Pages - View forms, views, and application pages. Enumerate lists.

When the read only user and the SLIP Task List access permissions are in place you're ready to create tasks by following one of the procedures described below:

How to create tasks for items and delete existing SLIP Pages initially

Follow the steps below in the specified order to create slip tasks and delete exiting SLIP Pages in your SharePoint web site. If Hyper.Net are used as the converter technology special steps are required in order for the requests to be created in the Hyper.Net administration/book-keeping system.

1. Disable the Task list processing using the SLIP Task processing configuration procedure
2. Login to the SharePoint as the Read Only user
3. Open your Document Library and select the view/items you'll create tasks for
4. Click the **Create Tasks for items** button and wait until it's completed
5. Repeat step 3-4 for your remaining Document Libraries
6. Clean up data depending on the converter technology used in your installation:
7. If Hyper.Net is used as the converter service perform the following steps:
 - a. Open the Hyper.Net Administration web site
 - b. Open the Request View > select All Requests > Display 100 requests
 - c. Click **Select all**
 - d. Click **Delete All** selected
 - e. Repeat step c-d until all Hyper.Net requests are removed from the Request View

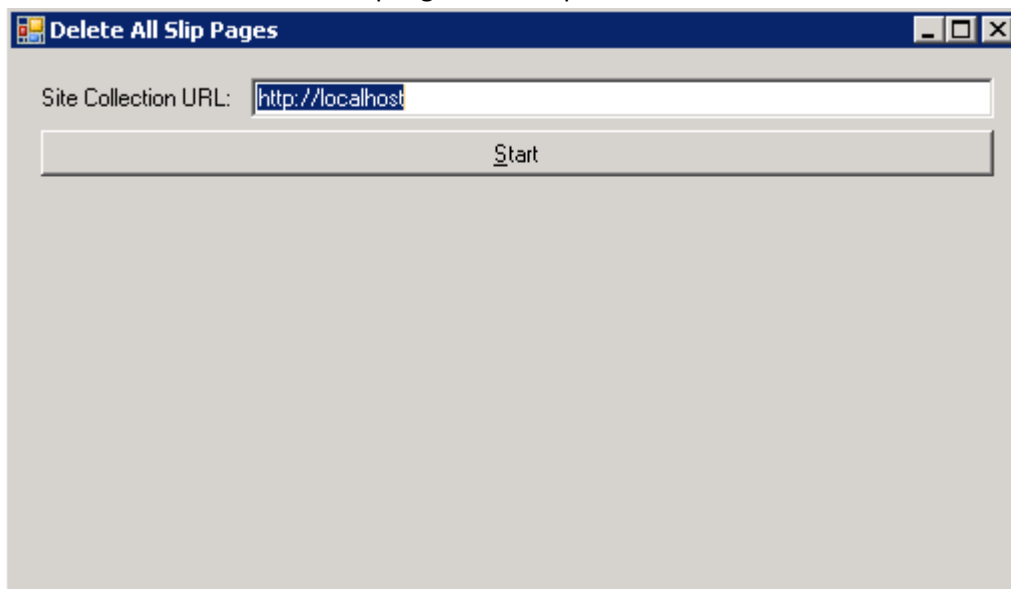
- f. Logon to the Hyper.Net Server
 - g. Stop and Disable the HN_KTService
 - h. Enable the SLIP Task list processing using the SLIP Task processing configuration procedure (Hyper.Net will not start to publish yet only prepare the requests)
 - i. Monitor that all Tasks are changed to Busy and Requests in the Hyper.Net Administration are created
8. Delete all the published pages either manually or refer to the How to use the DeleteAllSlipPages.exe tool procedure for an automated process
 9. If Hyper.Net is used as a converter service perform the following steps:
 - a. Logon to the Hyper.Net server
 - b. Enabled and start the HN_KTService windows service
 10. If not already enabled - Enable the Task list processing using the SLIP Task processing configuration procedure
 11. Monitor the tasks being processed in the SLIP Task List and check the published result

How to use the DeleteAllSlipPages.exe tool

If you need to delete all SLIP Pages the simple tool DeleteAllSlipPages.exe can perform this for all SLIP Pages found in any site within a single site collection. The tool has been developed internally by Coextant Systems A/S for Microsoft Office SharePoint Server 2007 using the SharePoint Api and is delivered as-is. The tool must be executed directly on a SharePoint server connected to the farm as a farm administrator.

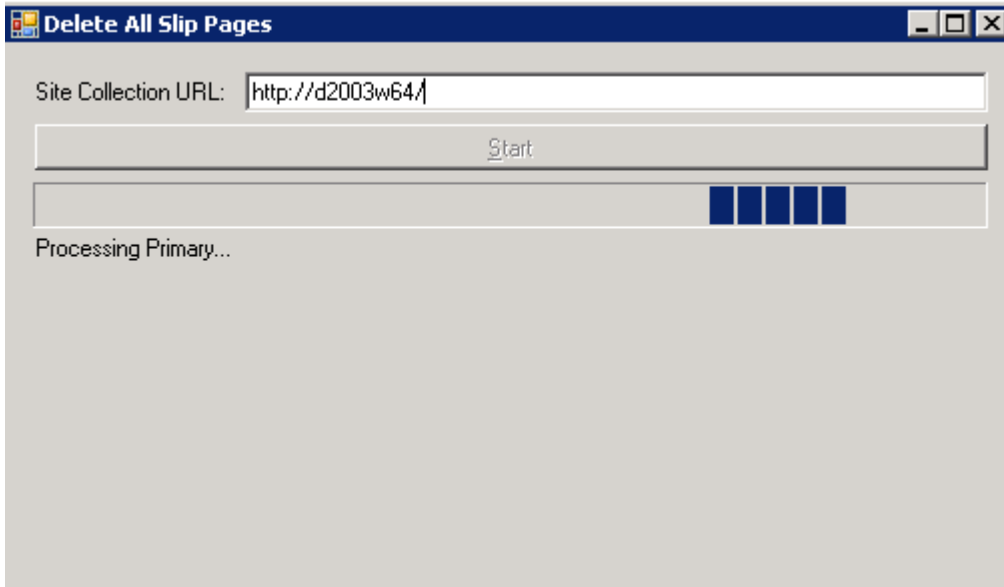
Follow the steps below to delete all your SLIP Pages:

1. Log in to one of the SharePoint servers as a farm administrator
2. Double click on the DeleteAllSlipPages.exe to open the Windows interface

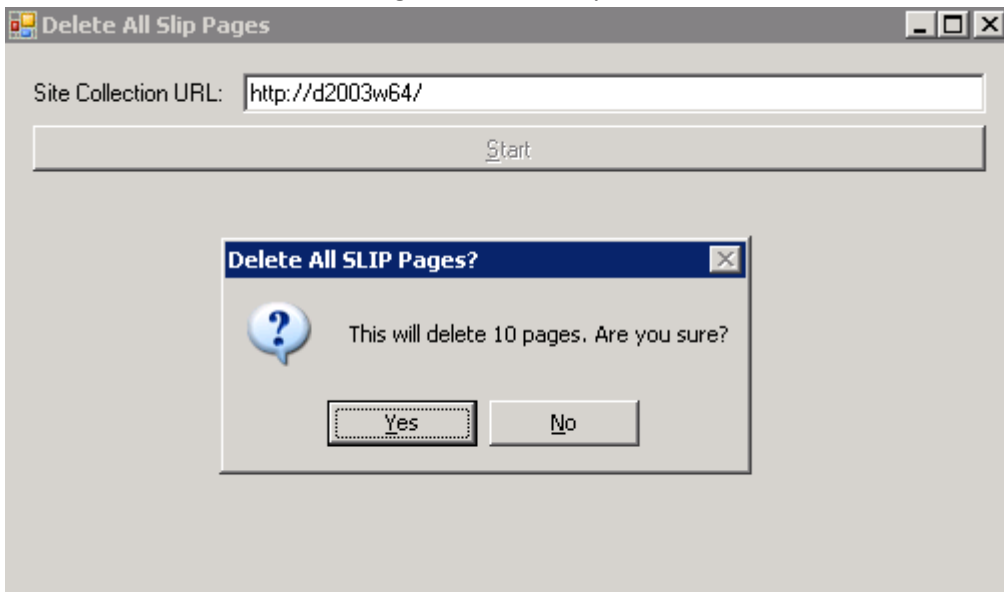


3. Enter the correct address for your site collection

4. Click Start to initiate the discovery process finding/counting all SLIP Pages with the site collection:
Note: No pages are deleted before confirmed later in this procedure

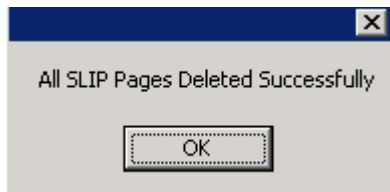


5. Click Yes to delete all the SLIP Pages discovered by the tool



NOTE: This can take 1-2 hours to complete for a large structure with many sites and pages.

6. Click OK when the **All SLIP Pates Deleted Successfully** dialog are finally displayed



7. Verify that the SLIP Pages are deleted and repeat the steps above for your remaining site collections.