

Description of the system and guide for day-to-day operations and maintenance.

Contents

2
3
4
5
6
7
7
8
8
9
9
9
9
10
10
11
12
12
13
14
14
14
15
16

SLIP:td Operations Manual Last updated on November 15, 2014.

Document History

Date	Description
November 15, 2014	First version.

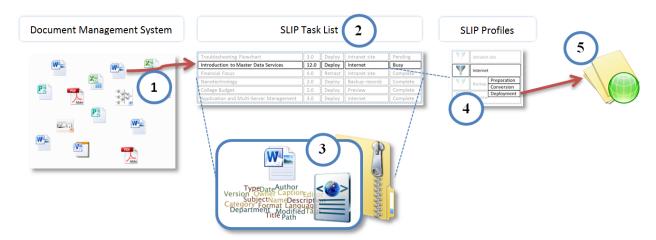
Introduction



SLIP:td provides an infrastructure for publishing electronic content. The backbone of which is Microsoft SharePoint. Originally, SLIP was an acronym for <u>SharePoint List Item Publisher</u>. Historically it was only a component for uploading files and creating pages in SharePoint libraries. Later, it has been extended with <u>transformation</u> and <u>deployment</u> features among other things – hence the current name SLIP:td.

This document describes the SLIP:td system and points out control and error handling options. It includes details on how to set up error handling, how to set up automatic clean up, and how to handle different types of errors.

Overview



SLIP:td contains a work queue, the *Task List*, that is continually being polled for pending tasks. Each task consists of some metadata properties and usually a single source file. When SLIP:td processes a task, it uses the metadata of the task to decide which processing profile is appropriate to handle the task. The profile consist of a number of work steps that the system executes in sequence and usually ends with some kind of delivery action.

In most scenarios when documents reach a specific level in their document libraries, the system generates a corresponding task in the task list. Each task has one of two action modes: Either *Deploy* or *Retract*. When a document is deleted from the document library, a retract task will normally be generated, while the status of the document determines when a deploy task is generated. This logic ensures that current documents in the document libraries will correspond to pages in the web site.

When the system has processed a task, it writes the event to the log list with an indication of whether the operation succeeded or failed. In normal operation, with unchanged configuration, a failure would be rare and usually caused by some problem with the source document.

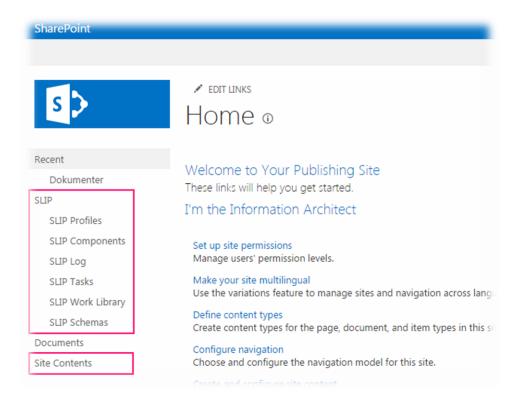
Configuration Handles

SLIP:td can be hosted on several web sites in SharePoint, but in most cases there will be just a single instance. For reference, it may be useful for you to make a note of the addresses of the environments that exist in your organization:



Environment	Web Site Address
Example	http://intranet.acme.com/sliptd/
Development	
Test	
Staging	
Production	

If you open the URL for a site, as specified above, you will be able to find the SLIP-related lists either in the left-hand navigation column or via the *Site Contents* link, which will give you an overview of all the lists in the site.



You will find links for the SLIP related list in the left-hand navigation or via the Site Contents link.



Site Contents gives an overview of all the lists and libraries in a site.

Further, the SLIP related lists always have static URLs relative to the site in which they live:

List	Relative URL
Tasks	/SlipTaskList
Profiles	/Lists/SlipProfileList
Schemas	/Lists/SlipSchemaList
Log	/Lists/SlipLogList
Components	/Lists/SlipComponentList

The following sections describe important functions and configuration options that may be helpful when troubleshooting and performing other administrative tasks.

Export/import

The profiles contain the recipe, if you will, of how the system should process each kind of task. Each profile may be associated with a schema that specifies how to populate metadata properties of published content. As such, these items wrap many details about how the system should operate.

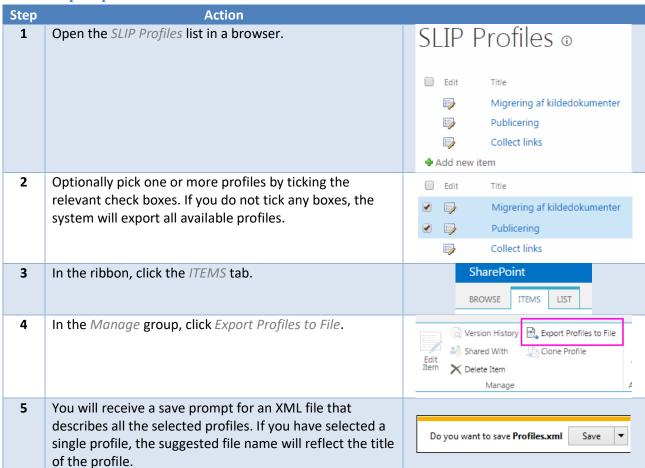


In order to move this information from one environment to another easily or to facilitate backup/restore, the system offers import and export functions.

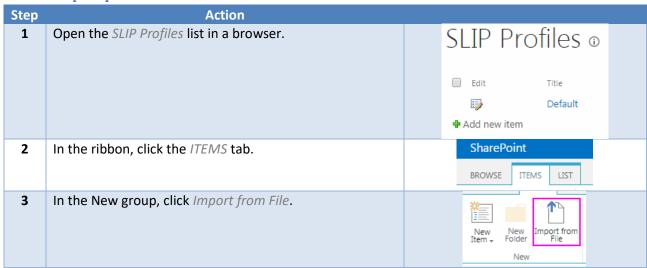
SLIP:td Operations Manual Last updated on November 15, 2014.

When you export a profile, the associated schema is automatically included in the export. When you import a profile, you may choose whether to include the schema or just import the profile.

How to export profiles with schemas



How to import profiles



4 Pick an existing profile archive file. Decide whether to include associated schemas in the import and whether to Choose File Profiles.xml overwrite any existing profiles with the same title as those being imported. In most cases, it is fine to leave the default ticks. Finally click OK. OK Cancel 5 Now the imported profiles are available in the SLIP Edit Profiles list. Migrering af kildedokumenter ■ NEW 1 Publicering # NEW Default

Depending on the values of the specific settings of the imported profiles and schemas, you may need to adjust properties like absolute URLs to match the environment where you did the import.

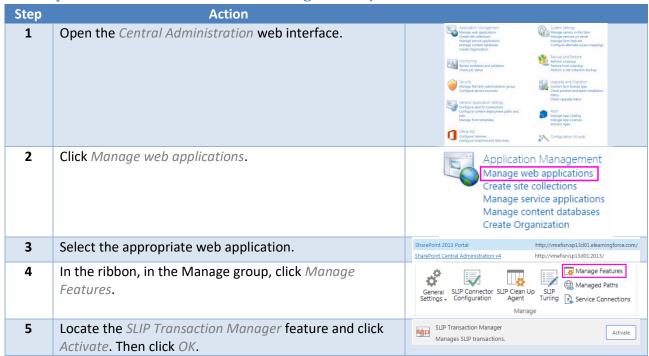
Activation and Frequency

SharePoint powers the SLIP engine by a timer job. Each timer job instance services one web application. The root URL of a site identifies a web application. Given the site URL http://intranet.acme.com/sliptd/, the web application level would be http://intranet.acme.com/.

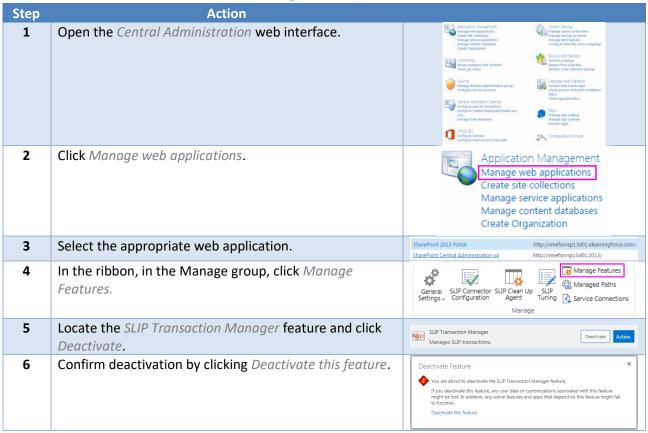
You can provision or remove the timer job for a web application via the feature SLIP Transaction Manager in the Central Administration interface.



How to provision the SLIP Transaction Manager timer job



How to remove the SLIP Transaction Manager timer job



This is one way to control task processing.

It is also possible to simply enable or disable the timer job. You can do this via *Central Administration* or you can do it within the *SharePoint 2013 Management Shell*.

How to disable a SLIP Transaction Manager timer job

	<u> </u>		
Step	Action		
1	Open SharePoint 2013 Management Shell.		
2	Enter		
	Get-SPTimerJob -Identity "SLIP Transaction Manager" Disable-SPTimerJob		

How to enable a SLIP Transaction Manager timer job

Step	Action		
1	Open SharePoint 2013 Management Shell.		
2	Enter Get-SPTimerJob -Identity "SLIP Transaction Manager" Disable-SPTimerJob		

By default, the schedule for the timer job is "every 10 seconds". You can adjust this with the Management Shell also.

How to review the schedule for a SLIP Transaction Manager timer job

Step	Action		
1	Open SharePoint 2013 Management Shell.		
2	Enter		
	Get-SPTimerJob -Identity "SLIP Transaction Manager" select Schedule		

How to set a different schedule for a SLIP Transaction Manager timer job

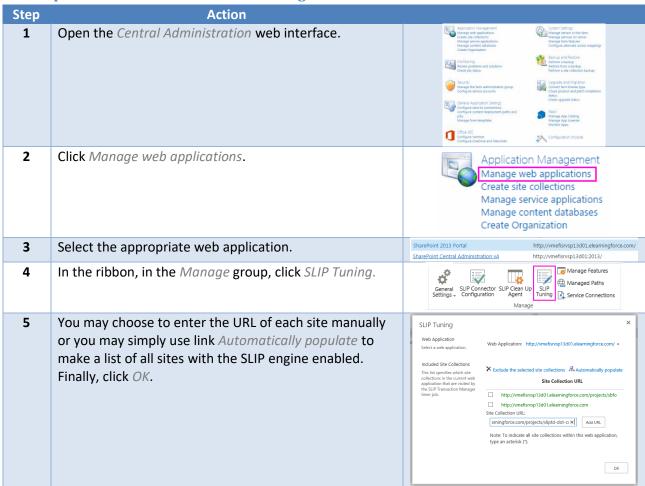
Step	Action		
1	Open SharePoint 2013 Management Shell.		
2	Enter		
	Get-SPTimerJob -Identity "SLIP Transaction Manager" Set-SPTimerJob -Schedule		
	"every 2 minutes"		

Please review the *Schedule* option under the *Parameters* section in <u>the Set-SPTimerJob documentation</u>, for more details.

You cannot set the original schedule of "every 10 seconds" with *Management Shell* because by default SharePoint only allows schedule frequency units of minutes or bigger. You can only restore the 10-second schedule by re-provisioning the *SLIP Transaction Manager*.

The *SLIP Transaction Manager* monitors all the sites that are part of a web application by default. When there are many sites, this becomes somewhat wasteful and therefore the system provides a function to control exactly which sites it visits in each scheduled cycle.

How to pick sites for SLIP Transaction Manager visits



You can also use this interface to enable or disable the *SLIP Transaction Manager* for an individual site by removing the site URL from the list.

SLIP:td Operations Manual Last updated on November 15, 2014.

There is also an option to enable or disable the *SLIP Transaction Manager* within each individual site with SLIP.

How to enable or disable SLIP task processing within a site with SLIP



Clean Up

When the system has been running for a while, it is natural that the SLIP Task List and the SLIP Log should contain quite a bit of data. Depending on the circumstances, you have the option to clean out some of this data.

The *SLIP Log* has a cap such that it will never contain more than 1000 entries. When the system writes new information to the log and exceeds 1000 items, it purges the oldest entries.

The situation for the SLIP Task List is different in that you must enable clean up explicitly. You do this by enabling the *SLIP Clean Up Agent* at the web application level.



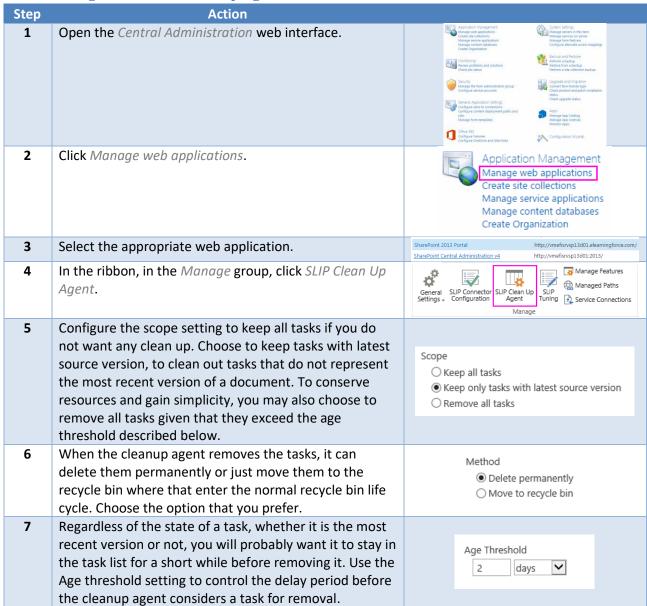
How to enable the SLIP Clean Up Agent

Step	Action		
1	Open the Central Administration web interface.	Appropriet Namesparency Memory with guidelines Outside Celebron Manage centre additional Memory and present additional Memory and Me	
2	Click Manage web applications.	Application Management Manage web applications Create site collections Manage service applications Manage content databases Create Organization	
3	Select the appropriate web application.	SharePoint 2013 Portal http://wmefisrvsp13d01.elearningforce.com/ SharePoint Central Administration v4 http://wmefisrvsp13d01:2013/	
4	In the ribbon, in the <i>Manage</i> group, click <i>Manage</i> Features.	General SLIP Connector SLIP Clean Up SLIP Tuning Settings Configuration Agent Manage Features Manage Paths SLIP Service Connections Manage	
5	Locate the SLIP Clean Up Agent feature and click Activate. Then click OK.	SLIP Clean Up Agent Removes obsolete task entries. Activate	

When working with a system that continuously publishes information from one place to another, each document is likely to generate several tasks, one for each version. At the same time, as a systems manager, you may not require all the historic versions to be available indefinitely with the storage requirements and performance impact this entails. Conversely, when performing a migration or batch operation that runs within a limited period with many tasks going through the system, you may require that all tasks related are available even after completion. To accommodate this, the *SLIP Clean Up Agent* offers a few options that

grant you flexible control over the automatic cleanup process. The agent runs once every hour in a timer job.

How to configure the SLIP Clean Up Agent



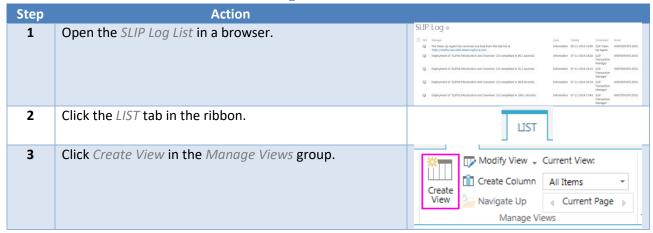
Error Handling

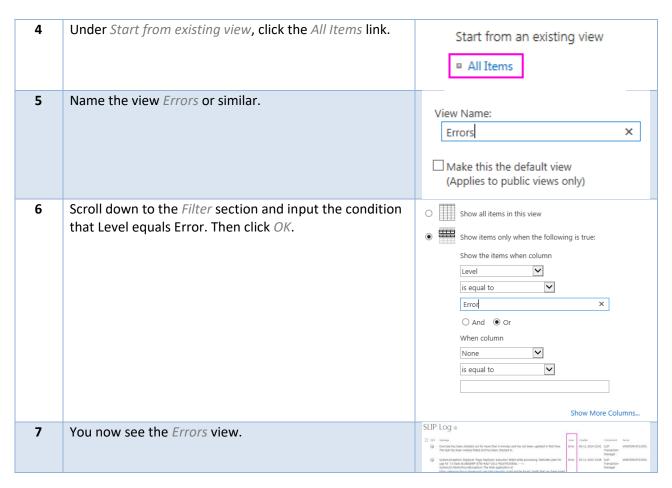


To ensure as much uptime as possible, you should establish monitoring on the SLIP process. One way to do this is with SharePoint list alerts. It would work to set up alerts either on the *Task List* or on the *Log List*, but to get immediate error details, that may indicate a condition that does not need any action, an alert on the *Log List* works best. You do not want alerts for everything that happens, only when something needs your attention. Therefore, we need to create a view for error log entries first.

Monitoring

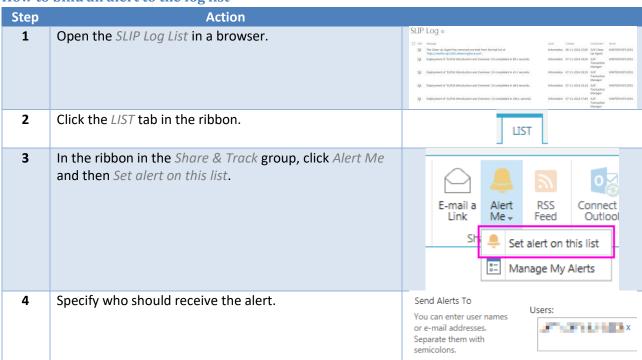
How to establish an Errors view for the Log List





The next step is to bind an alert to this view.

How to bind an alert to the log list



5	Filter the alerts to send notifications for the <i>Errors</i> view only.	Send Alerts for These Changes Speedy whether to filter alers based on specific criteria. Vour mats do only reductive gour alerts to only reducite great that show in a particular view. Someone else changes an item created by me Someone else changes an item last modified by me Someone changes an item that appears in the following view: Errors
6	Optionally adjust when to send alerts. Then click OK.	

Troubleshooting

If you have set up an alert to receive notification when an error occurs, your starting point will be the log message. To identify the related task, make a note of the title and id of the task.

System.Exception: Deployer 'Page Deployer' execution failed while processing 'SLIP:td Introduction and Overview' 1.0 (task id:d85bcefd-5792-4c3f-b738-aa28afd01014). ---> Microsoft.SharePoint.SPException: Additions to this Web site have been blocked.

Then, you may locate the task in the SLIP Task List to aid in the investigation.

In most cases, it works well to read the error message very carefully. The underlying system will be the source of most errors and it is therefore possible to find solutions by searching the Internet using part of the error message.

What follows are a few examples of error messages and possible explanations for their reason.

Message	Possible cause	Solution
One task has been checked out for more than 5 minutes and has not been updated in that time. The task has been marked failed and has been checked in.	The system began processing a task, but was interrupted or crashed very early in the process.	Requeue the task in question.
Could not load file or assembly 'Binary Toolkit, Version=1.0.0.0, Culture=neutral, PublicKeyToken=8f5505a445cce3ae' or one of its dependencies. The system cannot find the file specified.	During the latest solution installation or update, some circumstance prevented the process from completing properly. One or more essential assemblies are missing from the global assembly cache.	Retry the installation. If the problem persists, request a newly repackaged solution.
System.MissingMethodException: Method ' ' not found.	You have updated one package of the system, but there is a hard dependency on another part, that is not fulfilled.	Request updated packages for the core solutions.
Microsoft.SharePoint.SPFileCheckOutE xception: The file "" is checked out for editing by SHAREPOINT\system.	A former deployment has failed midway and left a file checked out or an event receiver crosses paths with the deployment process.	Manually undo the check out and requeue the task.
Microsoft.SharePoint.SPFileCheckOutE xception: The file "" is checked out for editing by domain\user.	The specified user has checked the deployment file out for editing.	Coordinate with the user to check the file in and requeue the task.

Metadata mapping with target name '' was not found.	The deployment depends on a metadata mapping that yields no value.	Check the mapping to identify the dependent properties and verify that they all contain values within their expected range.
System.UriFormatException: Invalid URI: The hostname could not be parsed.	The Word document being converted contains a link with a malformed hostname.	You may urge the author to fix this manually or modify the profile to add the Office Open XML Document Repair action.
Invalid text value.	One of the fields being populated according to the schema mappings receive an invalid value. This is usually because the text value exceeds the number of allowed characters in the field.	Inspect the source value and verify its contents. Modify the target field or change the input value.

End of document.