

Sling 10 Release Notes

Staging ground for the Sling 10 release notes

The Sling 10 release is focused on adding improved support for newer Java versions, but we managed to sneak in a couple of improvements as well. Please see the full details below.

Java 9 and 10 support

Sling now fully supports Java 9, with the integration tests running on Java 8 and Java 9 side-by-side. Java 10 has received the same attention in terms of testing, but since it is not officially released we can not declare it as fully supported.

Change of artifactId for the main Sling artifact

To better reflect its role, the old Sling launchpad has been renamed to the Sling starter. The name reflects that it's been used to quickly start working with Sling and also that it's aimed to start your appetite of working with Sling.

The Maven coordinates have changed from *org.apache.sling:org.apache.sling.launchpad* to *org.apache.sling:org.apache.sling.starter*.

Migrated from tika-bundle to tika-parsers

In order to keep the Slingstart artifact size under control, we no longer embed the tika-bundle uber-artifact. Instead, we include tika-parsers and explicitly support parsing of PDF documents via PDFBox. Consumers that desire to parse other document types can include other dependencies as OSGi bundle as needed.

Discovering parsers that do not work can be done by starting Sling with the additional `-Dorg.apache.tika.service.error.warn=true` argument. See also [Troubleshooting Tika](#).

The default Slingstart now is 32% smaller, dropping from 98MB to 67MB.

Direct access to a DataStore binary when the repository allows it

Sling is now able to directly redirect clients to secure URLs of DataStore binaries when the underlying repository allows it. This feature is intended to allow quick serving of content from remote services such as S3 without having to stream the binaries from Sling.

For more details see [+OAK-6575 - Provide a secure external URL to a DataStore binary.](#) CLOSED,

[SLING-7140 - Support redirects to URLs provided by the underlying datastore.](#) RESOLVED and [Ian Boston's quick configuration notes](#).

Exception stack traces now contain the originating bundle

When an exception is logged, the Bundle-SymbolicName and the version of the bundle containing each stack trace element are shown. The intent is to simplify debugging and support when logs are available but bundle versions are not known.

See the [logging documentation page](#) for more details.

Update to Oak 1.6.8

We use the latest stable Oak version from the 1.6 stream, bringing in over 140 fixes and improvements. See the [full list of resolved issues](#) for more details.

Service user console added

Working with service users is now made simpler by a new Web Console addition which allows inspecting and managing Service Users.

Main OSGi Sling Status Web Console Log out

Service users are used by OSGi Services to access the Sling repository. Use this form to find and create service users.

Create Service User

Service User Name:
The name of the service user to create, can already exist

Intermediate Path:
Optional: The intermediate path under which to create the user. Should start with system, e.g. system/myapp

Bundle:
The bundle from which this service user will be useable

Sub Service Name:
Optional: Allows for different permissions for different services within a bundle

Application Path:
The application under which to create the OSGi Configuration for the Service User Mapping, e.g. /apps/myapp

ACLS

Path	Privilege
<input type="text" value="/content/sling"/>	<input type="text" value="jcr:read"/>
<input type="text" value="/apps/sling"/>	<input type="text" value="jcr:write"/>

Set the privileges for this service user

Active Service Users

Name	Bundle	SubService
account-manager	Adobe CQ Account Management (com.adobe.cq.account)	account-management-service
acs-commons-automatic-package- replicator-service	ACS AEM Commons Bundle (com.adobe.acs.aem-commons-bundle)	automatic-package-replicator
acs-commons-bulk-workflow-service	ACS AEM Commons Bundle (com.adobe.acs.aem-commons-bundle)	bulk-workflow
acs-commons-component-error- handler-service	ACS AEM Commons Bundle (com.adobe.acs.aem-commons-bundle)	component-error-handler
acs-commons-dispatcher-flush- service	ACS AEM Commons Bundle (com.adobe.acs.aem-commons-bundle)	dispatcher-flush
acs-commons-email-service	ACS AEM Commons Bundle (com.adobe.acs.aem-commons-bundle)	email-service
acs-commons-ensure-oak-index- service	ACS AEM Commons Bundle (com.adobe.acs.aem-commons-bundle)	ensure-oak-index
acs-commons-ensure-service-user- service	ACS AEM Commons Bundle (com.adobe.acs.aem-commons-bundle)	ensure-service-user

This console page is available as a standalone artifact at the `org.apache.sling:org.apache.sling.serviceuser.webconsole` Maven coordinates.

Service user privilege declaration based on principal names

Service users may now be declared as having a list of principal names which exhaustively map the privileges they contain. This style of declaration is preferred since it reduces redundancy and adds clarity to the privileges used by a certain service user. Pre-authentication can also lead to performance improvements.

The OSGi configuration differs from the standard model by using an array to hold the principal names, as opposed to a single value. An example can be seen below

```
org.apache.sling.serviceusermapping.impl.ServiceUserMapperImpl.amended-resourceresolver
user.mapping=[
  "org.apache.sling.resourceresolver:mapping\[repository-reader-service]"
]
```

See the [Oak documentation on pre-authentication](#) for more details.

Enhancements to the reposit language

We have added several improvements to reposit, including

- mixins in "create path" statements
- repository-level permissions
- disabling service users
- specifying oak restrictions

See the [Repository Initialization documentation](#) for more details.

Support for mounting JSON files in the bundle resource provider

The bundle resource provider now allows adding JSON files which hold properties for various nodes.

The feature can be enabled by adding a directive to the header entry: `propsJSON:=EXTENSION`, e.g. `propsJSON=json`. All files having the configured extension will be treat as JSON files containing properties for the resources.

It is possible to have a file and a JSON file for the same resource, like

```
/libs/system/myscript.txt
/libs/system/myscript.txt.json
```

The json file will then contain properties (value map) for the resource, this includes defining the resource type. Such a json file can also contain a deep tree of objects like:

```

{
  "name" : "myscript",
  "child" : {
    "foo" : "bar";
  }
}

```

Issues tagged Sling-10-ReleaseNotes:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SLIN G- 7368	Add Service User OSGi Console		Jan 09, 2018	Jan 19, 2018		Dan Klco	Dan Klco		CLOSED	Fixed
SLIN G- 7365	Some JSP tests fail under Java 10 - parameterized types are only available if source level is 1.5 or greater		Jan 08, 2018	Jan 19, 2018		Konrad Windszus	Konrad Windszus		CLOSED	Fixed
SLIN G- 7140	Support redirects to URLs provided by the underlying datastore.		Sep 19, 2017	Feb 03, 2018		Ian Boston	Ian Boston		RESOLVED	Fixed
SLIN G- 7068	Upgrade to Oak 1.6.4		Aug 21, 2017	Aug 21, 2017		Robert Munteanu	Robert Munteanu		RESOLVED	Fixed
SLIN G- 7066	Support mixins in reposit "create path" statements		Aug 21, 2017	Feb 03, 2018		Timothee Maret	Bertrand Delacretaz		CLOSED	Fixed
SLIN G- 7061	Access control setup of repository-level permissions (i.e. null path)		Aug 18, 2017	Feb 03, 2018		Timothee Maret	angela		CLOSED	Fixed
SLIN G- 6984	Allow to disable service user		Jun 26, 2017	Feb 03, 2018		Timothee Maret	Timothee Maret		CLOSED	Fixed
SLIN G- 6963	Service user declaration based on principal names		Jun 15, 2017	Dec 11, 2018		Karl Pauls	angela		CLOSED	Fixed
SLIN G- 6878	Bundle resource provider: support mounting of JSON files		May 24, 2017	Feb 05, 2018		Carsten Ziegeler	Carsten Ziegeler		CLOSED	Fixed
SLIN G- 6422	Allow for specifying oak restrictions with reposit		Dec 21, 2016	Feb 03, 2018		Bertrand Delacretaz	Nitin Nizhawan		CLOSED	Fixed
SLIN G- 3049	Make Logback Stacktrace Packaging data support OSGi aware		Sep 10, 2013	Feb 03, 2018		Chetan Mehrotra	Chetan Mehrotra		CLOSED	Fixed

11 issues