

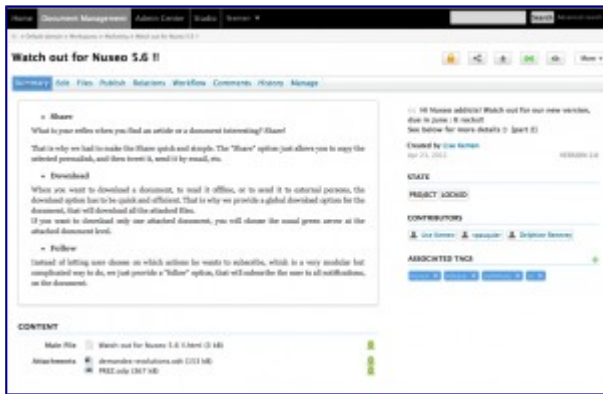
Usability Improvements

We try to continuously improve the usability of the default web application. At the same time, we make all the screens and the UI system as generic as possible so that your application can easily leverage the infrastructure and reuse what already exists as much as possible.

In that area, the 5.6 release comes with several changes:

CSS and Styles Refresh

Like all major versions, the 5.6 includes some CSS and styling changes:



Document Summary tab

Action System Extension

The action system that has been used since the very beginning to manage buttons, links and tabs has been extended.

The action system now supports:

- Explicit typing of actions
- Generic renderers
- Keyboard bindings.

These improvements provide more power to Nuxeo IDE and Nuxeo Studio users.

Layouts and Widgets Everywhere

We continue to extend the usage of the Layouts / Widgets model. Now that we have CSS-based grid layouts, this model can be used to build completely new screens.

The impact on Nuxeo Platform 5.6 is the redesign of the summary tab and the ability to use the Tab Designer in Studio.

This means you can now build completely new screens using Layouts and Widgets:

- Widgets can be used to render actions (based on action typing and generic renderers)
- Actions can be used to define sub-widgets

As a side effect, this new version of the Nuxeo Platform comes with a lot of new Widgets and Layout options. You can try some of them at <http://layout.demo.nuxeo.com/>.

SaaS Architecture

First, if you've missed it, take a look at our [Cloud Infrastructure webinar](#) held by our CEO Eric Barroca and our General Manager for Americas and Asia Brendan Coveney:

Multi-Tenant Addon

The Nuxeo Platform now supports [Multi-Tenant configuration](#) via an addon available from the Nuxeo Marketplace.

This new module allows to define a tenant:

- by default a Tenant is a Domain
- per tenant users and groups management
- per tenant Directories configuration
- enforces data isolation
- leverage local configuration for storing Tenant specific configuration.

The source code is available on [Github](#).

Quota Management

The [Quota Addon](#) has been improved to allow:

- definition of a size quota on a per-container basis
- enforcing the quota.

Modules / Packages System

This new version of the Nuxeo Platform comes with a lot of changes in the packaging and deployment system:

- Packaging dependency resolution system is now aligned on CUDF
- NuxeoCtl now allows better control on packages installation
 - deploy custom config automatically
 - support for automatic updates
 - instance configuration management
 - set of new commands for managing Marketplace packages
 - JSON and XML outputs
- Nuxeo Marketplace packages can now be of 3 types:

- public – available to everyone
- restricted – limited to Nuxeo Connect subscribers
- private – limit to a set of instances attached to a given Connect Contract

This private Marketplace package system enables the use of the Nuxeo Connect infrastructure as a deployment infrastructure for your projects.

Workflow

This is one of the main new features of Nuxeo Platform 5.6. The Content Routing workflow engine that was initially developed for Case Management has been deeply improved, with:

- support for graph-based routes
- Conditions, joins, jumps nodes
- Layout and form integration
- Action integration.

Some of the advantages of Content Routing are:

- Easy, flexible workflows
- Use of Nuxeo Studio as workflow editor
- Create graph routes via Nuxeo Studio
- Adjust and tweak routes from the Nuxeo UI

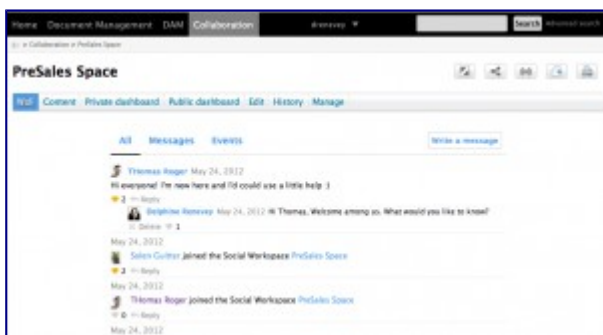
Take a look at this [two-part](#) webinar we did about Content Routing:

New features

As usual, this new version of Nuxeo Platform also comes with some new features.

Social Collaboration

New features have been added to the Social Collaboration module: a wall, ratings, likes, comments on activities, a new team calendar – check out [Delphine's blog post](#) for more details and screenshots!



Nuxeo Social Collaboration Wall

See our [user guide](#) for more details!

Note: the Social Collaboration module is available as a [public Marketplace package](#) and can be selected at installation time via the setup wizard.

Diff Service

The Diff service calculates the difference between 2 documents or 2 versions of the same document. It works at several levels:

- Diff on the Document Structure and Metadata
- Diff on the binary content.

As usual, the Diff service exposes extension points so that you can configure how you want the diff to be computed for your documents and files types. Check out the [doc](#) for details!



Diff content detail

Note: The Diff service is available as a [public marketplace package](#).

Document Templates

This new module generates files based on a template with merge fields, featuring:

- support for multiple file formats (docx, odt, xls, html)
- use as an extension to the rendition system
- possibility to bind one or more templates to a document.

Read the [doc](#) to find out how it works!

Note: This is available as a [public marketplace package](#).

Mobile Web UI for the Nuxeo Platform

The Nuxeo Platform now provides a Web UI dedicated to mobile devices.

This web interface, based on HTML5 and jQuery Mobile, uses Apache Cordova to provide native bindings. You'll get:

- “App” packaging
- suspend / resume

- FileSystem interactions.

Here's a quick preview of my development version of the mobile app:

Misc Infrastructure Changes

OpenJDK 7

OpenJDK is now officially supported.

VCS Improvements

- **Batching Optimization:** at a low level, we have improved the way VCS sends batch queries in order to reduce the number of network round trips. We have also changed the *PageProvider* default configuration so that listing very big folders does not generate a drop in performance.
- The **VCS caching system** is now pluggable.

Work Manager

A new service, *WorkManager* has been added and is responsible for managing long running tasks like conversions, image processing, and batch processing. This *WorkManager* has also become the underlying infrastructure for the *Asynchronous EventListeners* execution.

Hot Reload Support

We have improved the way the Nuxeo Marketplace packages and development bundles are reloaded. This infrastructure work fixes several small problems:

- A Nuxeo Studio reload no longer breaks the theme and CSS,
- The Nuxeo IDE reload is more reliable.