

# Nuxeo Platform **7.1** Release Notes

## For Users

### New Tab for Pictures

The default summary tab for pictures have been revamped, with actions for rotation straight from there, and a new list of picture views with ability to download them and display the technical details of the views.

### HTML5 drag'n drop now works for IE 11 users

Some old limitations were removed and Internet Explorer users can now benefit from drag'n drop. This change was backported in 6.0.

### Empty Trash Button

A button has been added to empty the trash of a specific folder.

### Constraints

Nuxeo Core Repository now accepts the definition of xsd constraints on document properties. Those constraints can be for exemple number and text formats, text length, list of accepted values, numeric range. They are based on XML Schema facets. A sample constraint for expressing the fact the field value should be an email would be:

```
<xs:element name="email">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="[a-z0-9!#$%&'*/+=?^_`{|}~-]+(?:\.[a-z0-9!#$%&'*/+=?^_`{|}~-]+)*@(?:[a-z0-9](
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

Once constraints are defined, validation can be enabled/disabled at different level by means of the extension point activations of the `org.nuxeo.ecm.core.api.DocumentValidationService` component. Nuxeo Studio will in the future allow constraints definition.

### Field Reference

A reference system has been added. It allows to define a field (usually a string field) as a reference to an other object. A resolver is used to be able to load the referenced object when needed. Here is the way to define a constraint:

```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ref="http://www.nuxeo.org/ecm/schemas/core/external-references/"
  xmlns:nxs="http://www.nuxeo.org/ecm/schemas/example"
  targetNamespace="http://www.nuxeo.org/ecm/schemas/example">
  <xs:element name="favorite">
    <xs:simpleType>
      <xs:restriction base="xs:string" ref:resolver="documentResolver" ref:store="id" />
    </xs:simpleType>
  </xs:element>
</xs:schema>
```

And here is a way to get the referenced object.

```
DocumentModel referenced = document.getObjectResolver("schema:favorite").fetch(DocumentModel.class);
```

### CMIS 1.1 Secondary Types Support

Dynamical facets are now exposed as [CMIS secondary types](#).

### Workflow Module Improvements

A lot of work has been done on the workflow module for improving graph readability: designer in Nuxeo Studio now benefits from grid snapping for positioning the nodes. It is also possible to edit the position of the transitions, while in the past it was 100% controlled by Studio. This is specifically interesting in situations where there are many transitions coming out from one node, with looping, etc ... We also changed the look and feel, with rounded corners and new set of colors. We hope you will like it! Finally, we changed the position of the "exclusive node" checkbox, it is now displayed in the transition tab, for more consistency.

## File Metadata Read-Write

A new module in the Nuxeo Platform (nuxeo-platform-binary-metadata) is dedicated to reading and writing metadata on files, like Office metadata, XMP metadata, EXIF, PDF, etc. This new addon provides a configurable service that makes it very easy to map metadata of the files to metadata of the document, and let Nuxeo Platform maintain this mapping when the data is updated. The service also provides several helpers and operations to use it in different manner, you can read [the documentation](#) to discover more of this great new platform feature.

## Computed Picture Views

The Picture Views definition, ie the list of resolutions/format that are systematically computed when uploading a Picture is no more hardcoded. It is now easy to add new views to a picture, depending on the document type, the user properties, etc... An [how-to](#) has been written to let you discover how to contribute your own views.

## Aliases for Automation Operations

It is now possible to rename an operation while not breaking the compatibility using the alias system.

## MVEL Expressions Debugging

MVEL expressions are now evaluated in automation traces while only the object name was appearing before. This makes it easier to debug some complex chains.

## Page Provider Name is Part of the Content View State

The serialized state of a content view now holds the page provider name, which can be useful for building and running the query associated to a given content view in a client application.

## Command Line Converter and Converter Operation

A command line converter has been added to the platform. This converter allows to reference a declared command line (contributed to the command line extension point) for doing a conversion. An operation has also been added so as to call any converters and convey parameters. That way, in two contributions you can operate from automation advanced transformations very easily.

## PDF Signing Operation

A new operation makes it possible to sign a pdf directly from an automation chain. This operation is part of the nuxeo-platform-digital-signature module.

## Tagging Operations

A set of operations has been added for being able to tag or remove tags on a document.

## Possibility to Brand Home and Admin Tabs

You now can from Studio easily brand Home and Admin tabs.

## InfoView Action Category and Other New UI Elements

Some new UI elements were added in 6.0 and are now available in studio for configuration, like the INFO\_VIEW actions category (the popup form the search tab) and some new widgets that are used on that view.

### More Resilient LDAP Directory

When LDAP Directory is slow or network is bad, some requests where issuing timeouts. A new system where ldap directory is cached in an SQL directory makes the experience much better in those situations.

### Elastic Search: Re-indexing Actions

A set of re-indexing actions are provided from the Admin Center, for re-indexing everything starting from one node (and the children iteratively) or for re-indexing a list of documents corresponding to an NXQL request. Also, indexing the repository has been made faster.

### Elasticsearch: Configuring The Indexing Pool From nuxeo.conf

Some options are available in nuxeo.conf directly for configuring Elasticsearch service: #  
Reindexing option, number of documents to process per worker  
`elasticsearch.reindex.bucketReadSize=500` # Reindexing option, number of documents to submit to Elasticsearch per bulk command  
`elasticsearch.reindex.bucketWriteSize=50` #  
Maximum size of the indexing thread pool  
`elasticsearch.indexing.maxThreads=4` # Time to keep the completed indexing worker states  
`elasticsearch.indexing.clearCompletedAfterSeconds=90`

### Tasks Do Not Hold A Dynamical Facet Anymore

Tasks now hold only statical facets, which makes queries on tasks more efficient

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