Content Package Validation Improvements

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Agenda

- Challenges in deploying maintenance updates
- Improvements in Granite Package Maven Plugin
  - **Dependency Validation**
  - **Index Definitions Check**
- Improvements in Package Manager
  - **Validate OSGi Package Imports**
  - **Validate Overlays**

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Challenges in deploying maintenance updates

1. Wrong Dependency
2. Re-indexing during installation
3. Export Package Changes
4. Overlay Conflicts

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Improvements in Granite Package Maven Plugin

- Granite Package Maven Plugin generates a content package based on a provisioning model
- Used internally to build
  - Hotfixes
  - Feature Packs
  - Cumulative Fix Packs
  - Service Packs
- Plugin was enhanced to perform validations when a package is built
  - Dependency Validation
  - Index Definitions Check

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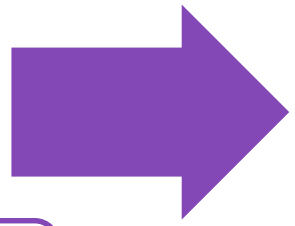
Dependency Validation

Dependency validations added and enabled by default to ensure proper packaging of Hotfixes / Cumulative Fix Packs

Whether the dependencies mentioned are actually existing?

To skip set failOnMissingDependency=false



Whether the group versions match i.e. a 6.2 HF doesn't have dependency on a 6.1 HF?

To skip set failOnDependencyMisMatch=false

JIRA ID : CQ-74198

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Index Definitions Check

Internal plugin enhanced to not allow index definitions in a package

- Included artifacts are iterated to look for index definitions
- Checks for update/addition/deletion of index definitions
- Package build fails if index definition is found
- Can be skipped by setting **allowIndexDefInPackage=true**

JIRA ID : CQ-102349

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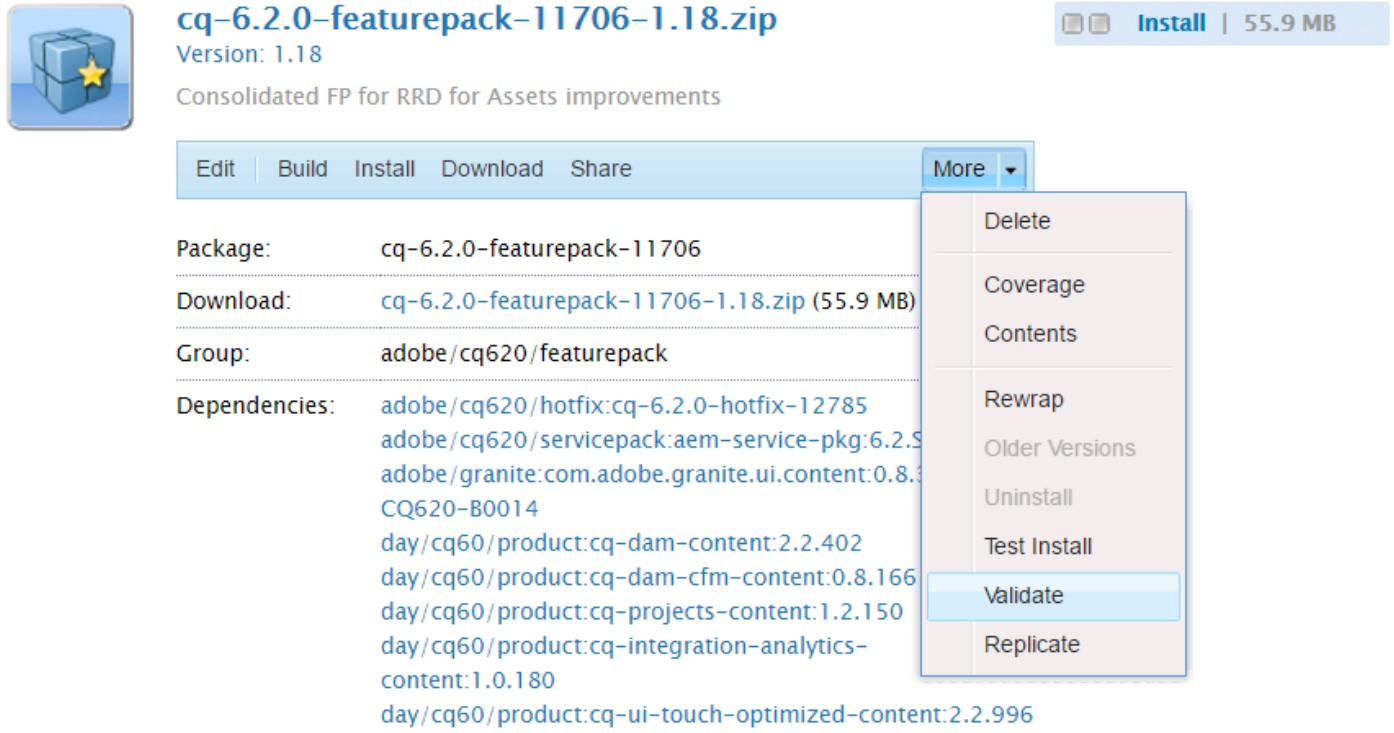
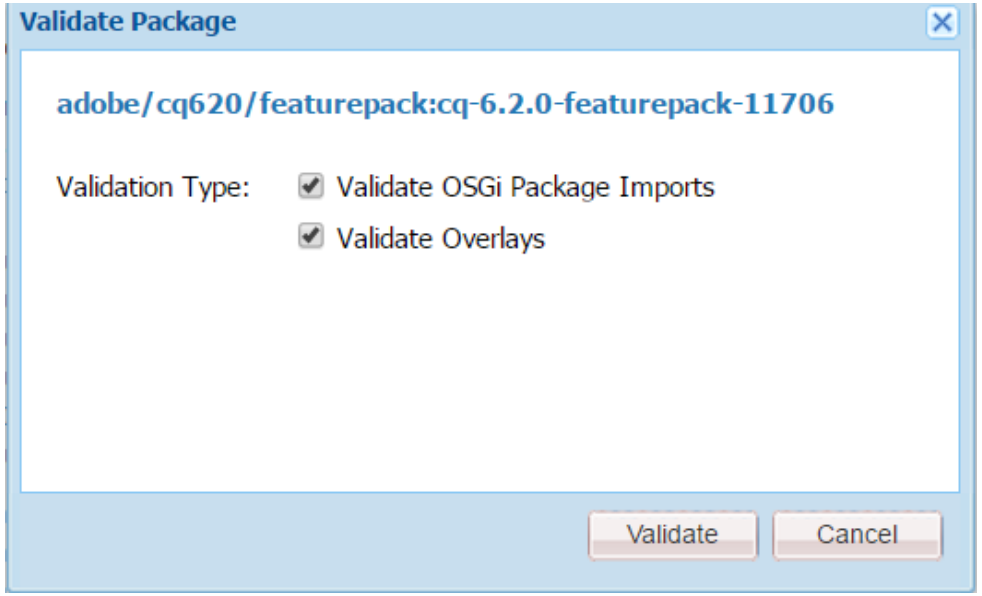
Improvements in Package Manager

- Validate option added in Package Manager
  - Customer can upload and pre-validate a package before actual installation
  - Any inconsistencies or conflicts reported can be handled before installation





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Validate OSGi Package Imports

- Customer can pre-validate if installing the package will result in any unsatisfied OSGi package imports and bundles in installed state
- Activity logs list the unsatisfied package imports and the corresponding bundles
- Bundles that will go in installed state are also listed

Activity Log

```
Validate Package: /etc/packages/adobe/cq620/featurepack/cq-6.2.0-featurepack-11706-1.18.zip
Wed May 24 2017 15:50:55 GMT+0530 (India Standard Time)

Validating content package

1 unsatisfied OSGi package import in 1 bundle.
1. Unsatisfied package import com.day.cq.dam.api-[1.18.0,2.0.0) in bundle com.day.cq.dam.cq-dam-indesign-5.9.29.NPR-11706-R004 present at cq-6.2.0-featurepack-11706-1.18.zip/jcr_root/libs/system/

Following 1 bundle will go from 'Active' to 'Installed' state if you install this content package.
1. com.day.cq.dam.cq-dam-indesign-5.9.29.NPR-11706-R004

1 unsatisfied OSGi package import.

Package validated in 0ms.
```

JIRA ID : CQ-91005

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Validate Overlays

- Customer can validate that no overlay is effected and identify overlays that need to be rebased
- Detects conflicts in JSP, JS & CSS file overlays only.
- A warning is logged in activity logs that list the number of overlays that need to rebased with the overlay path and the path of the file in the content package

Activity Log

```
Validate Package: /etc/packages/adobe/cq620/cumulativefixpack/cq-6.2.0-sp1-cfp-3.8.zip
Wed May 24 2017 15:52:06 GMT+0530 (India Standard Time)

Validating content package

2 overlay rebase warnings. Please rebase your overlay for :
1. Base Version of /apps/cq/gui/components/common/wcm/clientlibs/wcm/js/pagethumbnail.js got changed in cq-6.2.0-sp1-cfp-3.8.zip/jcr_root/etc/packages/day/cq60/product/cq-ui-touch-optimized-conte
2. Base Version of /apps/cq/gui/components/common/wcm/pagethumbnail/pagethumbnail.jsp got changed in cq-6.2.0-sp1-cfp-3.8.zip/jcr_root/etc/packages/day/cq60/product/cq-ui-touch-optimized-content-

2 overlay rebase warnings.

Package validated in 0ms.
```

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