

JcrContentModelTranslations

See also:

- http://mail-archives.apache.org/mod_mbox/jackrabbit-users/200703.mbox/%3CC20DC699.40CA%25brdavis@bea.com%3E

Options:

Shared UUID

Advantages:

- Referencing a node without specifying the language is possible (e.g., fallback to the default language if a translation doesn't exist)

Issues:

- JCR allows only one node with a particular UUID
 - Either use a referenceable language-independent node
 - Or don't use JCR UUIDs for references, but custom String-value properties
- With JCR UUIDs and a common referenceable parent node, structures like `/en/welcome`, `/de/willkommen` are not possible (would require separating the content hierarchy from the URI structure)

Non-Shared UUID

Advantages:

- JCR UUIDs could be used
- Arbitrary content hierarchies / URI structures
- Automatic referential integrity check with respect to language version (i.e., `/foo_de` can't be removed if `/bar_de` points to it)

Issues:

- References can only point to a particular translation
- A. Common parent node or artificial node
 - Influences content hierarchy (and maybe URL structure)
 - Obtain all translations of an artificial common node using `Node.getReferences()`
- B. No common parent node: relations between translations have to be maintained (or is this optional?)
 - B.1. via multi-value reference property at each translation
 - B.2. via language-independent node
 - In either case, translations are not self-contained anymore

Examples:

Non-shared UUID, arbitrary structure

```
/de
/willkommen
/jcr:uuid = 1
/jcr:language = "de"
/lenya:translations = { 2 }
/en
/welcome
/jcr:uuid = 2
/jcr:language = "en"
/lenya:translations = { 1 }
```

Non-shared UUID, arbitrary structure, explicit translation references

```
/welcome_de
/jcr:uuid = 1
/jcr:language = "de"
/lenya:translations = { 2 }
/welcome_en
/jcr:uuid = 2
/jcr:language = "en"
/lenya:translations = { 1 }
```

Non-shared UUID, arbitrary structure, implicit translation references via URL structure (String operations)

```
/welcome_de
  /jcr:uuid = 1
  /jcr:language = "de"
/welcome_en
  /jcr:uuid = 2
  /jcr:language = "en"
```

Non-shared UUID, common parent node

```
/welcome
/de
  /jcr:uuid = 1
  /jcr:language = "de"
/en
  /jcr:uuid = 2
  /jcr:language = "en"
```

Shared UUID, common parent node

```
/welcome
  /jcr:uuid = 1
/de
  /jcr:language = "de"
/en
  /jcr:language = "en"
```

Shared UUID, artificial shared node

```
/de
  /willkommen
    /lenya:sharedDocumentNode = 1
    /jcr:language = "de"
/en
  /welcome
    /lenya:sharedDocumentNode = 1
    /jcr:language = "en"
/lenya:sharedDocumentNodes
  /welcome
    /jcr:uuid = 1
```

Shared UUID, default language node is referenceable

- Optional node type mix:referenceable assigned only to default-language nodes
- Default-language node must exist

```
/de
  /willkommen
    /lenya:defaultLanguageNode = 1
    /jcr:language = "de"
/en
  /welcome
    /jcr:uuid = 1
    /jcr:language = "en"
```

Shared custom UUIDs

```
/welcome_de
  /lenya:uuid = 1
  /jcr:language = "de"
/welcome_en
  /lenya:uuid = 1
  /jcr:language = "en"
```

