

# Concept - Link generation



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Implemented in Magnolia 5.0

Improve link generation

With moving to Magnolia 5.0 we can continue with getting rid of old Context/Node Data API replacing it with JCR API, in this case for link generation.

Also this brings an opportunity to refactor the code and its structure, get rid of deprecated code etc. + solving few related tickets (described below).

## Structure and configuration changes

- `info.magnolia.link.LinkFactory` should be merged into `info.magnolia.link.LinkUtil`
  - both contains just static methods so there is no point in having two of them
  - review methods
  - also they make mutual calls
- Rewrite `LinkTransformerManager`
  - only way how to customize one of link transformers is to rewrite the class (Link manager can be set in config workspace)
  - `/server/rendering/linkManagemet` - add `transformersholder` where transformers will be registered
    - `transformers`
      - `absolute`
      - `relative`
      - `editor`
      - `completeURL`
      - `browser`
    - call registered transformer (as manager does it now), if not then fallback to default (?)
    - `LinkTransformer` interface - add setter and getter for `addContextPath`, `useURI2RepositoryMapping` and `usel18N`
    - `EditorLinkTransformer` should be deprecated as it calls just `AbsolutePathTransformer`
    - also this setting should be possible to configure site-specific
      - implementation in `ETKLinkTransformerManager`
      - site will get also transformers holder
      - if current site has this holder it overrides general one

## Functional changes

- `info.magnolia.link.Link` - replace `Content` with `Node`
  - add methods which will use `Node`, deprecate `Content` related
- i18n aware links
  - for now internal links are working in set locale (EN -> EN)
  - `Link` should contain `Locale` property with possibility to point to certain language version, for example:
    - link to german page from english
    - link list of all existing languages for certain page
  - use default locale if none given
  - add `i18nLinkTransformer`
    - `Locale` set in constructor, transform method will do processing
    - based on functionality of `DomainNamePathTransformer`, just locale won't be added dynamically but via parameter
- configurable extension
  - `MagnoliaTemplatingUtilities.createLink()` - add method with extension parameter

## Jira tickets

### Error rendering macro 'jira'

Unable to locate Jira server for this macro. It may be due to Application Link configuration.

- base ticket for API change



Unable to locate Jira server for this macro. It may be due to Application Link configuration.

- API improvement, basicly

refactoring and merging `LinkUtil` with `LinkFactory` as mentioned above



Unable to locate Jira server for this macro. It may be due to Application Link configuration.

- improved configuration

- should provide a way to configure Transformers



Unable to locate Jira server for this macro. It may be due to Application Link configuration.

- add possibility to configure

extension when creating the link