

## TYPO3.Flow - Task # 2126

<b>Status:</b>	Resolved	<b>Priority:</b>	Must have
<b>Author:</b>	Bastian Waidelich	<b>Category:</b>	Configuration
<b>Created:</b>	2008-11-11	<b>Assigned To:</b>	Bastian Waidelich
<b>Updated:</b>	2010-10-20	<b>Due date:</b>	
<b>Sprint:</b>			
<b>PHP Version:</b>			
<b>Has patch:</b>			
<b>Complexity:</b>			
<b>Subject:</b>	Implement sub routes support (routes should be configured globally in one place)		
<b>Description</b>	<p>Routes should be configured globally at one place to avoid complexity and make it possible to disable/change existing routes in new distributions.</p> <p>Currently every package can define it's own routes which might cause an unmanageable configuration and leads to the problem that the loading order of the packages matter.</p> <p>TODO:</p> <ul style="list-style-type: none"><li>- <del>move all existing route definitions to the global Routes.yml file</del></li><li>- <del>make sure, that FLOW3 ConfigurationManager only loads global Routes</del></li><li>- <del>allow Packages to suggest Routes or to add Sub-Routes (probably not in this release)</del></li></ul>		
<b>Related issues:</b>			
related to YAML - Feature # 2322: Possibility to track filename and line numb...		<b>New</b>	<b>2008-12-15</b>
related to TYPO3.Flow - Bug # 3433: Routes in packages are overruled by globa...		<b>Resolved</b>	<b>2009-05-24</b>

### Associated revisions

#### Revision ff26a5c3 - 2009-02-16 17:04 - Bastian Waidelich

FLOW3:

- improved strategy pattern implementation in DynamicRoutePart to simplify creation of custom RoutePartHandlers.
- parsed URI pattern is not represented as uriPatternSegmentCollection anymore but as simple array of Route Parts making URI matching more flexible and easier to comprehend.
- added Interfaces RoutePartInterface and DynamicRoutePartInterface
- improved error handling for invalid URI patterns. Replaced F3\FLOW3\MVC\Exception\SuccessiveDynamicRouteParts by F3\FLOW3\MVC\Exception\InvalidUriPattern.
- lots of smaller tweaks
  
- BREAKING CHANGES:
- moved all Routes to global Configuration/Routes.yaml. Addresses #2126.
- dynamic Route Parts are no longer enclosed by square brackets but by curly brackets. Resolves #2342.
- removed support for query strings in URI pattern for now. It increased complexity and wasn't really needed yet.
- added support for optional route parts. Just put the respective parts in brackets in your URI pattern. NOTE: Dynamic Route Parts are no longer optional by default (even if a default value is set). Resolves #1790.

#### Revision 94fb30d7 - 2009-05-26 01:37 - Bastian Waidelich

FLOW3:

- !!! BREAKING CHANGE !!! F3\FLOW3\Configuration\Manager is now able to load sub routes from packages and merge them with main routes. Resolves #2126 (This needs further testing and some cleanup!)
- !!! BREAKING CHANGE !!! Routes are not processed in reverse order anymore. Resolves #3441.
- Query string won't be lowercased anymore by the routing framework. Relates to #2237.
- Added some missing type hints to F3\FLOW3\Configuration\Manager
- Improved exception messages in F3\FLOW3\MVC\Web\Routing\Route

FLOW3 Distribution:

- !!! BREAKING CHANGE !!! adapted global routes to the changes mentioned above and added subroutes to FLOW3/TYPO3CR packages.

### Revision 60a120de - 2009-05-26 01:37 - Bastian Waidelich

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- !!! BREAKING CHANGE !!! adapted global routes to the changes mentioned above and added subroutes to FLOW3/TYPO3CR packages.

## History

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### #1 - 2008-11-24 19:21 - Bastian Waidelich

- *Assigned To set to Bastian Waidelich*

### #2 - 2008-12-19 10:53 - Bastian Waidelich

Additionally Routes should not be configured with a named index to avoid unintended overwriting of routes:

```
MyRoute1:
  uriPattern: 'foo'
  defaults:
    @package: MyPackage1
```

```
MyRoute2:
  uriPattern: 'bar'
  defaults:
    @package: MyPackage2
```

# this disables previously defined MyRoute1:

```
MyRoute1:
  uriPattern: 'baz'
  defaults:
    @package: MyPackage3
```

Instead it should be

```
-
  uriPattern: 'foo'
  defaults:
    @package: MyPackage1
```

```
-
  uriPattern: 'bar'
  defaults:
    @package: MyPackage2
```

```
-  
uriPattern: 'baz'  
defaults:  
  @package: MyPackage3
```

For debugging, it will be possible to identify the YAML file and filename of a Route's configuration. This relates to #2322

### #3 - 2009-02-27 11:55 - Karsten Dambekalns

- Status changed from New to Accepted

### #4 - 2009-03-02 20:49 - Karsten Dambekalns

Bastian and I talked about routing for some hours last Friday (Feb 27th). We had this idea to solve this (Bastian, if I miss something, feel free to fill in):

- Packages can define "Sub"-Routes in their Routes.yaml
- TYPO3 by default only reads Routes.yaml from the global configuration space (and context, of course)
- "Sub"-Routes can be imported/mounted under a prefix in the global configuration
- the later could also be done through some tool, preferably the package manager, which could also alert the user of existing "sub"-routes (or presets as you might call them)
- a routing setup tool will allow for display and simulated matching of URIs against the configuration to ease debugging and setup

The syntax with which the "sub"-routes will be like this:

```
---- YAML ----  
uriPattern: tools/{TYPO3CR}'  
routeParts:  
  TYPO3CR:  
    subRoutes:  
      package: TYPO3CR  
uriPattern: tools/{backupThingie}'  
routeParts:  
  backupThingie:  
    subRoutes:  
      package: SiteBackup  
      file: OptimizedRoutes.yaml  
---- YAML ----
```

This means that "sub"-routes can be "mounted" with any prefix and will be configured like a route part. If only 'package' is given, Routes.yaml will be used, if 'file' is given a specific set of rules can be imported (this can be given multiple times to allow for modular rulesets, they are then combined).

'file' can not hold a path and is always relative to the package's 'Configuration' directory.

Notes:

- the naming of the "sub"-routes needs to be finalized :)
- if you have ideas to share, shoot!

### #5 - 2009-05-25 18:27 - Robert Lemke

- Subject changed from Routes should be configured globally in one place to Implement sub routes support (routes should be configured globally in one place)

- Priority changed from Should have to Must have

**#6 - 2009-05-26 02:00 - Bastian Waidelich**

- *Status changed from Accepted to Resolved*

- *% Done changed from 0 to 100*

Applied in changeset r2381.

**#7 - 2009-05-26 02:10 - Bastian Waidelich**

The syntax for subRoutes is (as in r2381):

```
--  
uriPattern: foo/<mySubRoutes>/{bar}  
defaults:  
  {bar}: someDefault  
subRoutes:  
  mySubRoutes:  
    package: MyPackage
```