

## TYPO3.Flow - Feature # 2237

<b>Status:</b>	Resolved	<b>Priority:</b>	Must have
<b>Author:</b>	Sebastian Kurfuerst	<b>Category:</b>	MVC
<b>Created:</b>	2008-11-27	<b>Assigned To:</b>	Karsten Dambekalns
<b>Updated:</b>	2010-10-20	<b>Due date:</b>	
<b>PHP Version:</b>			
<b>Has patch:</b>			
<b>Complexity:</b>			
<b>Subject:</b>	URLs can only be lowercase		
<b>Description</b>			
<p>Hello,</p> <p>I cannot use upper-cased URLs in case I want to.</p> <p>I just had a route configuration like:</p> <p>Mapping_CRUD_RenderingGroupHelpers: uriPattern: '@package]/[@controller]/[@action]/id/[id]/renderingItem/[renderingItemId]' defaults:   @controller: Default   @action: index   @format: html</p> <p>(note the big "I" in renderingItem).</p> <p>What happens is that it lowercases the URL during link generation, then you click onto the link, and see the DefaultView of FLOW3, apparently because no route matched... :-(</p> <p>It'd be really nice to have uppercase URLs if you want them as well. Is there a reason this is prohibited?</p> <p>Greetings, and thanks, Sebastian</p>			
<b>Related issues:</b>			
related to TYPO3.Flow - Task # 1253: Enable lower case URLs		<b>Resolved</b>	<b>2008-08-08</b>
related to TYPO3.Flow - Bug # 5182: Routing: @action should not be case sensi...		<b>Resolved</b>	<b>2009-10-30</b>

### Associated revisions

#### Revision fe2501ed - 2009-03-02 11:51 - Karsten Dambekalns

FLOW3:

- removed controllerObjectNamePattern and viewObjectNamePattern from some places, refs #2444
- added caching to routing, based on work by Bastian and Sebastian, fixes #1791
- the Router resolve()s in lowercase and matches case-insensitive now, refs #2237

TYPO3CR:

- adjustments to Routes.yaml suggestion

#### 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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#### **Revision d47677b3 - 2009-10-30 14:19 - Karsten Dambekalns**

[+FEATURE] FLOW3 (MVC): The handling of case in URIs has been changed in routing and URI building. The default is now to leave case unchanged in user-defined route parts, check the documentation for more details. Resolves #2237. Thanks to Bastian Waidelich.

## **History**

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### **#1 - 2009-02-25 22:51 - Karsten Dambekalns**

- *Status changed from New to Accepted*
- *Assigned To changed from Bastian Waidelich to Karsten Dambekalns*

Two ways to solve this:

- make generated URIs have the case they should have according to the route configuration
- match case-insensitive

The first seems cleaner, but in case of routing one would probably never want to distinguish between 'parts/Wheels' and 'parts/wheels'. I'd say, go for case-insensitive matching.

That would mean to change the StaticRoutePart, as it's the only place where this is needed.

### **#2 - 2009-02-27 12:25 - Karsten Dambekalns**

Solution to be implemented:

- default is to generate URI in lowercase and match case-insensitive
- optionally enable case sensitivity so that generation and matching observe case

### **#3 - 2009-05-19 12:34 - Robert Lemke**

- *Target version set to 283*

#### #4 - 2009-05-24 16:17 - Christopher Hlubek

I have the same problem with URL parameters being lowercased by the URIBuilder. I think the case of URL parameters should not be changed, especially the case of the values!

Example:

```
$this->URIBuilder->URIFor('view', array('packageKey' => 'FLOW3'))
```

Would return an URI like `.../view?packagekey=flow3`.

#### #5 - 2009-05-24 22:42 - Karsten Dambekalns

Christopher Hlubek wrote:

*I have the same problem with URL parameters being lowercased by the URIBuilder. I think the case of URL parameters should not be changed, especially the case of the values!*

That can be solved like this (by moving the strtolower a little up):

```
Index: Route.php
=====
--- Route.php (revision 2301)
+++ Route.php (working copy)
@@ -377,6 +377,7 @@
     $matchingOptionalUriPortion = "";
     }
 }
+ $matchingURI = strtolower($matchingURI);

    // Remove remaining route values of applied default values:
    foreach ($this->defaults as $key => $defaultValue) {
@@ -397,7 +398,7 @@
     }
     $matchingURI .= '?' . http_build_query($routeValues, NULL, '&');
 }
- $this->matchingURI = strtolower($matchingURI);
+ $this->matchingURI = $matchingURI;
    return TRUE;
 }
```

#### #6 - 2009-05-24 23:00 - Bastian Waidelich

Karsten Dambekalns wrote:

*That can be solved like this (by moving the strtolower a little up):*

| [...]

I've changed that already, gonna commit tomorrow.  
Thanks!

#### #7 - 2009-05-25 23:02 - Christopher Hlubek

I think this is not sufficient. Look at a route, where the parameters are in the path like uriPattern: help/{packageKey}/{documentationName}/{language}.

In this case the character case is important, but will not be maintained (even after applying the patch). The proposed patch only fixes simple parameters in the query part of the URI.

This issue is very important in my opinion, since routing with string parameters is pretty useless without the correct character case.

#### #8 - 2009-05-25 23:06 - Karsten Dambekalns

- Assigned To changed from Karsten Dambekalns to Bastian Waidelich

Christopher Hlubek wrote:

| *I think this is not sufficient. Look at a route, where the parameters are in the path like uriPattern:  
| help/{packageKey}/{documentationName}/{language}.*

True. I hope Bastian has thought of this already... :)

#### #9 - 2009-05-26 11:09 - Christopher Hlubek

r2381 fixes the lowercase issue for the query part, that's good. But the non-static route parts still get lowercased, which is not suitable for string parameters. This should be fixed, too.

#### #10 - 2009-05-26 12:22 - Bastian Waidelich

Christopher Hlubek wrote:

| *r2381 fixes the lowercase issue for the query part, that's good.  
| But the non-static route parts still get lowercased, which is not suitable for string parameters.*

I know, I know, that's why I didn't close the ticket ;)

We've already talked about this issue earlier (see #1253). In the longterm there should be an option to explicitly allow uppercase characters in Routes/RouteParts. We could remove the strtolower-call in F3/FLOW3/MVC/Web/Routing/Route but that would lead to ugly default URIs like: <http://www.mydomain.tld/MyPackage/Standard/index>

So we decided to go lowercase for now as it's quite common (and IIRC RealURL does this aswell)

Anyways, I don't think this is mission critical (at least not for the alpha version) because IMO the developer should allow "caseless" parameters anyways. That is:

If you have a controller that expects a search parameter you should return the same result independently from the case (because the administrator

might want to force lower case URIs). If you really need the exact case you could use POST.

For "lookups" like page titles, the respective route part handler should be able to transform the case - like it's done in RealURL.

What do you think?

Thanks for the feedback!

#### #11 - 2009-05-27 12:06 - Christopher Hlubek

Bastian Waidelich wrote:

*What do you think?*

For the documentation browser i would need exactly that, if a user selects a package and a documentation and language, the package key is a parameter in the URL, so the URL is like "/help/FLOW3/Manual/en" and the files of the documentation are passed through with the URL "/help/FLOW3/Manual/en/index.html". I could solve that with query parameters but with the routes it just works perfectly with the relative links in the documentation (without any prefixing). So I would like to have ugly URLs now, but parameters working. And in the long-term configurable case-insensitive route parts.

#### #12 - 2009-05-27 12:50 - Bastian Waidelich

Christopher Hlubek wrote:

*For the documentation browser i would need exactly that, if a user selects a package and a documentation and language the package key is a parameter in the URL*

you can use

```
$this->packageManager->getCaseSensitivePackageKey()
```

and

```
$this->objectManager->getCaseSensitiveObjectName()
```

to get the cased names just like the F3\FLOW3\MVC\Request does it to retrieve package & controller from the URI.

Does that help?

#### #13 - 2009-05-27 16:20 - Christopher Hlubek

Bastian Waidelich wrote:

*Does that help?*

Thanks, Absolutely! I haven't seen that before. But it's somewhat hacked into the PackageManager, I will have to change some other methods too.

Nevertheless we should clearly document, that parameters in URLs get lowercased.

#### #14 - 2009-05-27 17:56 - Bastian Waidelich

Christopher Hlubek wrote:

| *Nevertheless we should clearly document, that parameters in URLs get lowercased.*

Yep, will do. Thanks

**#15 - 2009-06-04 15:27 - Robert Lemke**

- Priority changed from *Should have* to *Could have*
- Target version changed from *283* to *1.0 alpha 2*

**#16 - 2009-06-26 16:23 - Robert Lemke**

- Target version changed from *1.0 alpha 2* to *283*

**#17 - 2009-07-06 14:52 - Robert Lemke**

- Priority changed from *Could have* to *Must have*

**#18 - 2009-07-13 11:25 - Robert Lemke**

- Target version deleted (*283*)

**#19 - 2009-07-13 11:27 - Robert Lemke**

- Tracker changed from *Bug* to *Feature*

**#20 - 2009-10-29 18:01 - Bastian Waidelich**

- File *2237\_URLs\_can\_only\_be\_lowercase.patch* added
- Assigned To changed from *Bastian Waidelich* to *Karsten Dambekalns*

@Karsten: Can you please apply the patch if you have no objections? I wasn't sure whether to commit this before alpha 6 release - The change should be backwards compatible though!

**#21 - 2009-10-29 18:32 - Bastian Waidelich**

- File *2237\_URLs\_can\_only\_be\_lowercase\_v2.patch* added

Bastian Waidelich wrote:

| *The change should be backwards compatible though!*

I correct myself. The v2 should be backwards compatible.

**#22 - 2009-10-30 14:19 - Karsten Dambekalns**

- Target version set to *1.0 alpha 6*

**#23 - 2009-10-30 15:00 - Karsten Dambekalns**

- Status changed from *Accepted* to *Resolved*
- % Done changed from *0* to *100*

Applied in changeset r3382.

## Files

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2237_URLs_can_only_be_lowercase.patch	21.2 kB	2009-10-29	Bastian Waidelich
2237_URLs_can_only_be_lowercase_v2.patch	21.5 kB	2009-10-29	Bastian Waidelich