TYPO3.Flow - Feature # 45293

Work Package # 45088 (Resolved): Improved REST support

Status:	Resolved	**Priority:**	Should have
Author:	Bastian Waidelich	**Category:**	Http
Created:	2013-02-08	**Assigned To:**	Bastian Waidelich
Updated:	2014-08-05	**Due date:**	2013-04-13

PHP Version:	
Has patch:	No
Complexity:	
Subject:	More flexible parsing of body arguments

Description

Parsing of body arguments (e.g. xml, json) currently takes place in Http\Request and is hard-coded there.
Besides from being a bit buggy (e.g. you currently have to specify two root nodes like <root><product><title>changed title</title></product></root> where a common REST request would expected to be just <title>changed title</title>) the behavior can't be influenced easily because it happens so early in the request handling.

Related issues:

related to TYPO3.Flow - Feature # 37604: Make Flow RestController useless by ...	**Resolved**	**2012-05-30**
related to TYPO3.Flow - Task # 48615: Extract MediaType handling from HTTP re...	**Resolved**	**2013-05-28**
related to TYPO3.Flow - Feature # 54600: Request arguments not available in a...	**Resolved**	**2013-12-26**

Associated revisions

Revision 27853b9f - 2014-07-18 17:22 - Rens Admiraal

[!!!][FEATURE] Flexible parsing of request body arguments

Parsing of body arguments (e.g. xml, json) currently takes place in
``Http\Request`` and is hard-coded there.

This change extracts the decoding of body arguments from the request
class to a TypeConverter that is invoked by the ActionRequest only
if accessed.

The TypeConverter is referred to via a new marker interface
``MediaTypeConverterInterface``. In order to extend the media type
conversion, this interface has to be implemented by a custom
TypeConverter and set as default implementation in Objects.yaml::

    TYPO3\Flow\Property\TypeConverter\MediaTypeConverterInterface:
      className: 'Some\Custom\MediaTypeConverter'

This change also deprecates ``Http\Request::createActionRequest()``
in favor of ``$actionRequest = new ActionRequest($httpRequest);``

This is a breaking change in the rare case that
``Http\Request::getArguments()`` is expected to contain the parsed
request body already.
If you require to access those body arguments either use/create
an ActionRequest instance or parse the body arguments manually,
for example by using the PropertyMapper.

Change-Id: I1d192231810757f38aecfc3f7dc520b118ee3feb

Resolves: #45293

Releases: master

Revision 57d734b0 - 2014-08-27 17:25 - Bastian Waidelich

[BUGFIX] Properly merge request- and routing arguments

The "HTTP Components" feature (#52064) introduced a regression that
makes it very difficult to create RESTful services with Flow.
The problem is that the ``matchResults`` from the routing framework
override the arguments of the HTTP request instead of being
merged.

This change moves the merging of request- and routing arguments from
the ``ActionRequest`` to the ``DispatchComponent`` reducing the
complexity of argument merging and fixing the behavior of routing
values overriding the request arguments.

Note: This is a breaking change if you relied on the incorrect
behavior but it's not marked as such because there is no released
version that contains the regression.

Change-Id: Ida582e40c5306d5fa490c949d066e24f6dd63d09

Fixes: FLOW-43

Related: #45293

Related: #52064

Releases: master

History

#1 - 2013-02-08 17:22 - Bastian Waidelich

Also see Marco Falkenbergs comment on #37604:

> *Some additional thoughts...*
>
> ## *Processing of request content*
>
> *In case of RESTful webservices the processing of the request's content should be **more advanced and extensible**. For now i.e. XML data is poorly treated by just converting over a SimpleXMLElement to an array. I know that this lack is mentioned by Robert in the comment, but there is no according issue tracker.*
>
> *The funny thing is we have everything to make this work, because we have the property mapper with its type converters and their customizable configurations. Why don't **allow IANA types AND class types as source types** for a type converter? It's just pulling the responsibility for the property mapper one level up. Then you can implement the handling of XML data with your own XML type converter that i.e. accepts the source types 'application/xml', 'DOMNode', 'DOMElement', 'DOMDocument', 'DOMText'.*
>
> *I tried it out and it works!*

#2 - 2013-02-08 17:28 - Bastian Waidelich

In addition: Currently only a fixed set of **mediaTypes** are supported, when specifying a Content-Type header like **application/hal+json** the body
arguments are ignored!

#3 - 2013-02-22 10:36 - Bastian Waidelich

- Parent task set to #45088

#4 - 2013-03-28 16:21 - Aske Ertmann

- Parent task deleted (#45088)

#5 - 2013-03-28 16:22 - Aske Ertmann

- Parent task set to #45088

#6 - 2013-04-02 13:17 - Bastian Waidelich

- Due date set to 2013-04-06

#7 - 2013-04-02 13:18 - Bastian Waidelich

- Due date changed from 2013-04-06 to 2013-04-13

#8 - 2013-05-21 13:28 - Robert Lemke

- Target version deleted (2.1)

#9 - 2013-05-28 18:42 - Gerrit Code Review

- Status changed from New to Under Review

Patch set 1 for branch **master** has been pushed to the review server.
It is available at https://review.typo3.org/21134

#10 - 2013-05-28 18:44 - Bastian Waidelich

- % Done changed from 0 to 80

#11 - 2013-09-13 15:17 - Gerrit Code Review

Patch set 2 for branch **master** has been pushed to the review server.
It is available at https://review.typo3.org/21134

#12 - 2013-09-13 15:43 - Gerrit Code Review

Patch set 3 for branch **master** has been pushed to the review server.
It is available at https://review.typo3.org/21134

#13 - 2013-09-13 16:44 - Gerrit Code Review

Patch set 4 for branch **master** has been pushed to the review server.
It is available at https://review.typo3.org/21134

#14 - 2013-09-17 18:47 - Gerrit Code Review

Patch set 5 for branch **master** has been pushed to the review server.
It is available at https://review.typo3.org/21134

#15 - 2013-09-19 16:02 - Bastian Waidelich

- % Done changed from 80 to 100

#16 - 2013-09-20 17:54 - Gerrit Code Review

Patch set 6 for branch **master** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#17 - 2013-09-23 13:05 - Gerrit Code Review

Patch set 7 for branch **master** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#18 - 2013-10-21 12:00 - Gerrit Code Review

Patch set 8 for branch **master** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#19 - 2013-11-20 12:48 - Gerrit Code Review

Patch set 9 for branch **master** of project **Packages**/**TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#20 - 2013-11-20 18:50 - Gerrit Code Review

Patch set 10 for branch **master** of project **Packages**/**TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#21 - 2014-04-03 10:42 - Gerrit Code Review

Patch set 11 for branch **master** of project **Packages**/**TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#22 - 2014-04-03 14:15 - Gerrit Code Review

Patch set 12 for branch **master** of project **Packages**/**TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#23 - 2014-05-19 11:01 - Gerrit Code Review

Patch set 13 for branch **master** of project **Packages**/**TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#24 - 2014-05-19 11:56 - Gerrit Code Review

Patch set 14 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#25 - 2014-05-23 12:07 - Gerrit Code Review

Patch set 15 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#26 - 2014-05-27 10:21 - Gerrit Code Review

Patch set 16 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#27 - 2014-06-02 18:58 - Gerrit Code Review

Patch set 17 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#28 - 2014-07-01 12:11 - Gerrit Code Review

Patch set 18 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#29 - 2014-07-01 19:22 - Gerrit Code Review

Patch set 19 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#30 - 2014-07-01 19:31 - Gerrit Code Review

Patch set 20 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#31 - 2014-07-02 11:08 - Gerrit Code Review

Patch set 21 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server.

It is available at https://review.typo3.org/21134

#32 - 2014-08-05 12:00 - Rens Admiraal

- Status changed from Under Review to Resolved

Applied in changeset commit:27853b9fdca4582f386b0299b0282172fcaf35d7.