# TYPO3.Flow - Feature # 51570

<b>.</b>		<b> </b> .	
Status:	Resolved	Priority:	Should have
Author:	Marc Neuhaus	Category:	
Created:	2013-08-30	Assigned To:	
Updated:	2014-04-10	Due date:	
PHP Version:	Nia		
Has patch:	No		
Complexity: Subject:	Unpersisted changes in Safe F	Doquasta shauld throw on Fur	contion
Description	Onpersisted changes in Sale F	requests should throw all Exc	ception
Description			
With the recent chan	ge to not trigger persistAll in safe r	equest methods (GET/HEAD)	) some users
	ing their entities saved because of		
-	docs i think we should also throw	-	-
if the following condit			
- the current requ	est method is a safe request metho	od (GET/HEAD)	
	ext is the development context	. ,	
	updated/removed an entity using a	Repository or PeristenceMan	nager
- the user <b>did not</b> trigger persistAll using the PersistenceManager on it's own			
	· · · · · · ·	-	
Related issues:			
related to TYPO3.Flow	- Feature # 47951: Warn if persistence	stack is not emp	New 2013-05-05
	014-03-06 21:34 - Marc Neuhaus	afe Requests	
This changeset keeps t	rack if the PersistenceManager has un	persisted changes	
and notifies the Developer with a helpful exception if this happens in a			
safe request (GET/HEA	D). This exception is only thrown in de	velopment context	
	ed your own Persistence Manager, you		
hasUnpersistedChange	s() method, unless you extend the Abs	stractPersistenceManager.	
Delegeneration			
Releases: master Resolves: #51570			
Resolves: #51570 Change-Id: I52cd0b5d650327daa4507eb197f36da50a75daa7			
Unange-iu. io2coubod6	000270aa4007001971300a50a750aa7		
Revision ad0c7178 - 2	014-11-17 10:57 - Alexander Stehlik		
[!!!][BUGFIX] Skip autor	natic persistence for updated entities		
	hanges in a "safe request" (e.g. ``GET	) Flow	
throws an exception::	w now objects ( 14- be weather d. 11-	h ia nat	
	or new objects [] to be persisted which	n is not	
allowed for "safe r	equests		

including details on how to work around this.

This currently only works if entities have been added or removed.

With this change also **updates** to entities are tracked correctly so that automatic persistence is skipped for modified objects for safe requests.

This is a breaking change when code relied on the incorrect behavior of automatically persisting changes even for safe requests. In this case make sure to trigger updates only via unsafe requests (e.g. ``POST`` or ``PUT``).

If that's not an option, the issue can be worked around with a manual call to ``PersistenceManager::persistAll()``.

Change-ld: I9eb781c54c608c867a45206f64b6baf98c3d07f2 Releases: master, 2.2, 2.1 Fixes: FLOW-84 Related: #47252 Related: #51570

### Revision bfffa3c5 - 2015-04-08 12:38 - Alexander Stehlik

[!!!][BUGFIX] Skip automatic persistence for updated entities

When trying to persist changes in a "safe request" (e.g. ``GET``) Flow throws an exception::

Detected modified or new objects [...] to be persisted which is not allowed for "safe requests"

including details on how to work around this.

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Change-Id: 19eb781c54c608c867a45206f64b6baf98c3d07f2 Releases: master, 2.3, 2.2 Fixes: FLOW-84 Related: #47252 Related: #51570

Revision a0b36f97 - 2015-04-26 19:01 - Alexander Stehlik

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# History

# #1 - 2013-08-30 12:04 - Gerrit Code Review

- Status changed from New to Under Review

Patch set 2 for branch **master** has been pushed to the review server. It is available at <u>https://review.typo3.org/23484</u>

# #2 - 2013-08-30 12:15 - Gerrit Code Review

Patch set 3 for branch **master** has been pushed to the review server. It is available at <u>https://review.typo3.org/23484</u>

#### #3 - 2013-08-30 14:10 - Gerrit Code Review

Patch set 4 for branch **master** has been pushed to the review server. It is available at <u>https://review.typo3.org/23484</u>

# #4 - 2013-11-06 21:56 - Gerrit Code Review

Patch set 5 for branch master of project Packages/TYPO3.Flow has been pushed to the review server.

### #5 - 2013-11-07 10:53 - Gerrit Code Review

Patch set 6 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server. It is available at <a href="https://review.typo3.org/23484">https://review.typo3.org/23484</a>

#### #6 - 2013-11-10 00:17 - Gerrit Code Review

Patch set 7 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server. It is available at <a href="https://review.typo3.org/23484">https://review.typo3.org/23484</a>

# #7 - 2013-11-10 00:34 - Gerrit Code Review

Patch set 8 for branch **master** of project **Packages/TYPO3.Flow** has been pushed to the review server. It is available at <a href="https://review.typo3.org/23484">https://review.typo3.org/23484</a>

# #8 - 2013-11-10 01:05 - 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 <a href="https://review.typo3.org/23484">https://review.typo3.org/23484</a>

### #9 - 2014-02-21 01:16 - 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 <a href="https://review.typo3.org/23484">https://review.typo3.org/23484</a>

### #10 - 2014-02-28 11:25 - 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 <a href="https://review.typo3.org/23484">https://review.typo3.org/23484</a>

# #11 - 2014-03-06 15:12 - 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 <a href="https://review.typo3.org/23484">https://review.typo3.org/23484</a>

# #12 - 2014-03-06 21:29 - 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 <a href="https://review.typo3.org/23484">https://review.typo3.org/23484</a>

### #13 - 2014-03-06 21:42 - 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 <a href="https://review.typo3.org/23484">https://review.typo3.org/23484</a>

### #14 - 2014-03-06 22:36 - Anonymous

- Status changed from Under Review to Resolved
- % Done changed from 0 to 100

Applied in changeset commit:e9b5de3f8708ce136c2a08d07e173f953013ecce.

### #15 - 2014-03-13 11:20 - Marco Falkenberg

Could you please NOT throw an exception and just log it?! Isn't it a little bit overdone accepting a breaking change just for a developer message?

What about if you wan't to persist the missing entities manually after the controller invocation? In my case I persist user messages entities, which I want to show sometimes also for safe requests.

#### #16 - 2014-03-13 11:54 - Marc Neuhaus

Hey Marco :)

The Exception is only thrown if all these conditions are met:

- you are running inside the Development Context
- you added Entities to the PersistenceManger
- the request is a safe request which, by default does not persist anything that's added to the PersistenceManager
- you did not trigger persistenceManager->persistAll manually after adding the entities

We had several people quite confused because there changes weren't persisted in safe requests. The only case where this could be considered "breaking" is where you might have a bug because the changes weren't persisted because of the safe request.

We choose against a log entry because this would have destroyed the whole point of making novices aware of the safe request behavior.

If i understand you correctly you have a safe request method, were you change/add entities and persist manually? then this exception should not be thrown. do you use some kind of customer peristenceManager?

Cheers Marc

### #17 - 2014-03-28 16:42 - Marco Falkenberg

Hey Marc. Thanks for your answer. No I don't have a custom persitence manager. The only thing i did was to persist particular entities (Notifications) after every controller invocation. To realize this behaviour I hooked into the slot AfterControllerInvocation which fits very well.

\$dispatcher->connect('TYPO3\Flow\Mvc\Dispatcher', 'afterControllerInvocation', function(\$request) use(\$bootstrap) {

\$myRepo->persistEntities();

});

But Flow now also uses this slot to throw the discussed exception.

### #18 - 2014-03-28 17:34 - Marc Neuhaus

ah, i see. yes that could fail then of course. usually the manual persisting is done right were you did the change in cases like that.

But Robert introduced another thing quite recently: "Whitelisted objects"

https://review.typo3.org/#/c/28792/

http://docs.typo3.org/flow/TYPO3FlowDocumentation/latest/TheDefinitiveGuide/PartIII/Persistence.html#whitelisted-objects

Maybe that could help you?

### #19 - 2014-03-31 11:52 - Bastian Waidelich

Marco Falkenberg wrote:

Hi Marco ;)

Just a little comment regarding:

\$dispatcher->connect('TYPO3\Flow\Mvc\Dispatcher', 'afterControllerInvocation', function(\$request) use(\$bootstrap) {
 \$myRepo->persistEntities();
});

I guess you're aware of this, but for anyone else who might just copy that: With this you circumvent our CSRF-protection. That means: You could change the server state (update, add, delete data) just by clicking a link (in an email for example) if you have the required privileges (e.g. you are logged in to the flow app). That's because the CSRF token is only checked for "unsafe" requests.

While this might be perfectly fine in your case it's worth mentioning that there are ways around this:

For example you could check the CSRF-token explicitly for the affected actions (and make sure any link contains the token..). Or you could encapsulate the functionality (in this case: notifications) in some service that persists changes immediately. Or create those entities asynchronously via AJAX.

It depends on the use case but I usually prefer the last solution because it follows the HTTP spec and it allows for caching(!) - for example if you want to increase a view-counter on each view of a certain article

# #20 - 2014-04-10 09:49 - Marco Falkenberg

Marc Neuhaus wrote:

ah, i see. yes that could fail then of course. usually the manual persisting is done right were you did the change in cases like that.

But Robert introduced another thing quite recently: "Whitelisted objects"

https://review.typo3.org/#/c/28792/

http://docs.typo3.org/flow/TYPO3FlowDocumentation/latest/TheDefinitiveGuide/PartIII/Persistence.html#whitelisted-objects

Maybe that could help you?

That's a clean (white) solution and fits perfect to me needs. Thanks Robert!

### #21 - 2014-04-10 10:11 - Marco Falkenberg

Bastian Waidelich wrote:

Marco Falkenberg wrote:

Hi Marco ;)

Just a little comment regarding:

\$dispatcher->connect('TYPO3\Flow\Mvc\Dispatcher', 'afterControllerInvocation', function(\$request) use(\$bootstrap) {
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I guess you're aware of this, but for anyone else who might just copy that: With this you circumvent our CSRF-protection. That means: You could change the server state (update, add, delete data) just by clicking a link (in an email for example) if you have the required privileges (e.g. you are logged in to the flow app). That's because the CSRF token is only checked for "unsafe" requests.

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Hi Bastian,

many thanks for this hints and enforcing me to think about more often to follow the HTTP specs :)

Of course I thought about not persisting just everything. While ago I found something like this:

class NotificationRepository {

•••

public function persistEntities() {

foreach (\$this->entityManager->getUnitOfWork()->getIdentityMap() as \$className => \$entities) {

if (\$className === \$this->entityClassName) {

foreach (\$entities as \$entityToPersist) {

\$this->entityManager->flush(\$entityToPersist);

}
return;
}
}

}

Please correct if I'm wrong. If I call NotificationRepository::persistEntities only entities of this certain type will be persisted? That's what I tried in code above. But you're right: at least for this entities the CSRF-protection is circumvented.

FYI: I tried the second solution (persisting immediately) with the mentioned special repository function. But then some changes for other objects get lost. After some debugging I could see why. Look at the last lines of \Doctrine\ORM\UnitOfWork::commit.

In the end I used the new introduced whitelist :)

Thanks anyway!

# #22 - 2014-04-10 10:18 - Bastian Waidelich

# Marco Falkenberg wrote:

many thanks for this hints and enforcing me to think about more often to follow the HTTP specs :)

You're welcome ;)

If I call NotificationRepository::persistEntities only entities of this certain type will be persisted?

Correct, probably including the dependencies (for example product.category).

FYI: I tried the second solution (persisting immediately) with the mentioned special repository function. But then some changes for other objects get lost.

After some debugging I could see why. Look at the last lines of \Doctrine\ORM\UnitOfWork::commit.

Uh.. ok..

In the end I used the new introduced whitelist :)

Good choice ;)