

## Core - Bug # 54491

Epic # 47018 (Resolved): Implement Composer support and clean package manager API

<b>Status:</b>	Under Review	<b>Priority:</b>	Should have
<b>Author:</b>	Stefano Kowalke	<b>Category:</b>	7 Composer
<b>Created:</b>	2013-12-18	<b>Assigned To:</b>	
<b>Updated:</b>	2015-07-13	<b>Due date:</b>	
<b>TYPO3 Version:</b>	6.2		
<b>PHP Version:</b>	5.4		
<b>Complexity:</b>			
<b>Is Regression:</b>	No		
<b>Sprint Focus:</b>			
<b>Subject:</b>	PackageManager doesn't solve/recognize real composer packages		
<b>Description</b>			
<p>I add this snippet to the PackageStates.php:</p> <pre>'doctrine_dbal' =&gt;     array (         'manifestPath' =&gt; "",         'composerName' =&gt; 'typo3/doctrine_dbal',         'state' =&gt; 'inactive',         'packagePath' =&gt; 'typo3conf/ext/doctrine_dbal/',         'classesPath' =&gt; 'Classes/',     ),</pre>			
<p>and this is how my composer.json looks like:</p> <pre>{     "name": "typo3/doctrine_dbal",     "type": "typo3-cms-framework",     "description": "TYPO3 Core",     "homepage": "http://typo3.org",     "license": ["GPL-2.0+"],     "version": "6.2.0",     "require": {         "typo3/cms/core": "*",         "doctrine/dbal": "2.4.*"     },     "replace": {         "dbal": "*"     } }</pre>			
<p>"doctrine/dbal": "2.4.*" is a composer dependency which will downloaded into the vendor folder of the extension.</p>			
<p>I have a fresh installation with an empty database. When I start TYPO3 I will get the following error:</p>			
<p>Fatal error: Uncaught exception 'UnexpectedValueException' with message 'The package "doctrine_dbal" depends on</p>			

"doctrine/dbal" which is not present in the system.' in  
/Volumes/HDD/Users/sok/Development/TYPO3\CMS/core/master/typo3/sysext/core/Classes/Package/PackageManager.php  
on line 608

( ! ) UnexpectedValueException: The package "doctrine\_dbal" depends on "doctrine/dbal" which is not present in the system. in  
/Volumes/HDD/Users/sok/Development/TYPO3\CMS/core/master/typo3/sysext/core/Classes/Package/PackageManager.php  
on line 608

#### Call Stack

#	Time	Memory	Function	Location
1	0.0076	248008	{main}()	../Install.php:0
2	66.8783	2631112	TYPO3\CMS\Install\Controller\StepController->execute()	../Install.php:134
3	67.0292	3212456	TYPO3\CMS\Install\Controller\StepController->executeSpecificStep()	../StepController.php:69
4	67.0460	3237232	TYPO3\CMS\Install\Controller\Action\Step\DatabaseConnect->execute()	../StepController.php:90
5	72.9332	3301616	TYPO3\CMS\Install\Controller\Action\Step\DatabaseConnect->executeLoadDoctrineExtension()	../DatabaseConnect.php:61
6	76.1516	3323008	TYPO3\CMS\Core\Utility\ExtensionManagementUtility::loadExtension( ??? )	../DatabaseConnect.php:618
7	76.1517	3323096	TYPO3\CMS\Core\Package\PackageManager->activatePackage( ??? )	../ExtensionManagementUtility.php:1805
8	76.1518	3323160	TYPO3\Flow\Package\PackageManager->activatePackage( ??? )	../PackageManager.php:530
9	76.1520	3328552	TYPO3\CMS\Core\Package\FailsafePackageManager->sortAndSavePackageStates()	../PackageManager.php:542
10	76.1520	3328600	TYPO3\Flow\Package\PackageManager->sortAndSavePackageStates()	../FailsafePackageManager.php:92
11	76.1520	3328808	TYPO3\CMS\Core\Package\PackageManager->sortAvailablePackagesByDependencies()	../PackageManager.php:914
12	76.1520	3329176	TYPO3\CMS\Core\Package\PackageManager->getAvailablePackageLoadingOrder()	../PackageManager.php:748
13	76.1520	3329408	TYPO3\CMS\Core\Package\PackageManager->buildDependencyGraph()	../PackageManager.php:691
14	76.2027	3514248	TYPO3\CMS\Core\Package\PackageManager->buildDependencyGraphForPackages( ??? )	../PackageManager.php:659

#### Related issues:

related to Core - Bug # 57604: PackageManager is unable to resolve composer P...

Closed

2014-04-03

#### History

##### #1 - 2013-12-18 16:53 - Markus Klein

Why are you modifying PackageStates.php manually??

##### #2 - 2013-12-18 17:38 - Stefano Kowalke

Ok, then tell me how to manage them otherwise.

##### #3 - 2013-12-18 20:21 - Markus Klein

- Status changed from New to Needs Feedback

- Target version deleted (6.2.0)

#### #4 - 2013-12-18 20:32 - Thomas Maroschik

Discussed that in person some minutes ago. Will post a guideline for composer dependencies once the workflow becomes clear. For now it means composer still unsupported.

#### #5 - 2014-01-07 23:14 - Daniel Corn

I am very interested in this topic. Is 6.2 supposed to allow the installation of external/packagist composer packages?

I am the creator of cundd\_composer. The extensions aim is to provide the possibility to use non-TYPO3 composer packages.

Unfortunately the current TYPO3 6.2 version not only seems to not fully support composer - it even makes installations using cundd\_composer crash.

My extension relies on the composer.json in the extensions root, which is now read by the package manager. If it detects an external dependency an exception is thrown. In 6.1 and below you could simply navigate to the composer backend module and install the dependencies - now there is no way to install the extension which relies on the external composer package.

#### #6 - 2014-01-08 10:35 - Stefano Kowalke

Hey Daniel,

I can provide some informations which I found out and made my extension with external dependencies working.

TYPO3 doesn't support Composer at the moment - that means external dependencies won't be resolved. To make a composer project with ext deps working you need to create a new folder called Packages at the same level like typo3conf and fileadmin and copy the vendor folder into this folder.

Rename "vendor" to "Libraries", delete the PackageStates.php and restart the installation.

```
.
├── Packages
```

```
│   ├── Libraries
```

```
│   │   ├── autoload.php
```

```
│   │   ├── composer
```

```
│   │   └── doctrine
```

```
│   ├── fileadmin
```

```
│   ├── index.php -> typo3_src/index.php
```

```
│   ├── php.php
```

```
│   ├── typo3 -> typo3_src/typo3
```

```
│   ├── typo3_src -> /Volumes/HDD/Users/sok/Development/TYPO3/CMS/core/master
```

```
│   ├── typo3conf
```

```
│   ├── typo3temp
```

```
│   └── uploads
```

#### #7 - 2014-01-09 21:11 - Daniel Corn

Hy Stefano!

Thank you for that information!

This could help, but I'm not sure if I really want to try to write into the root :-S

I think I will change my extension to look for cundd\_composer.json instead for composer.json files inside the extensions.

I am disappointed how the next TYPO3 version will handle this. I don't really understand why the composer support is implemented incompletely. Isn't the great thing about composer it's ability to install all kinds of libraries from different sources and soften the borders between PHP projects?

**#8 - 2014-02-12 09:56 - Ernesto Baschny**

- Parent task set to #47018

**#9 - 2014-02-12 11:53 - Daniel Corn**

Hy

If someone is interested: I updated my composer extension to work with 6.2 (currently only on Github, not in TER).

As a notice I wrote the following:

Upgrade to TYPO3 6.2

TYPO3 6.2 will parse the extensions composer.json files and retrieve different information from it. TYPO3's new Package Manager also allows the definition of dependencies. Unfortunately these dependencies are limited to real TYPO3 extension. If you want to install an extension, which requires a non-TYPO3 package in composer.json, the Package Manager tries to resolve this dependency in vain and the installation fails.

To work around this issue cundd\_composer will look for the file cundd\_composer.json instead of composer.json. For legacy reasons cundd\_composer will still use composer.json TYPO3 versions below 6.2.

[CunddComposer on Github](#)

**#10 - 2014-04-03 16:21 - Jacob Rasmussen**

While you might get some mileage by using the Packages/Libraries structure, it is currently not possible to include PSR-4 namespaced packages - so I've created a bug report for this #57604

**#11 - 2014-10-06 09:56 - Alexander Opitz**

Is there something left over?

**#12 - 2015-01-09 12:04 - Mathias Schreiber**

- Status changed from Needs Feedback to Closed

Taken into account in #63909.

The issues are not linked on purpose, so the refactoring ticket does not get bloated with relations.

The new EM will import **only** composer packages :)

**#13 - 2015-02-03 13:16 - Patrik Karisch**

Will there be a fix for 6.2? This is an annoying bug, which prevents us from installing extensions with composer.json files, which also requires non Typo3-package.

For example:

One extension has this composer.json file:

```
{
  "name": "acme/foobar",
  "type": "typo3-cms-extension",
  "require": {
    "doctrine/cache": "~1.4",

    "composer/installers": "~1.0"
  }
}
```

The composer/installers enables me to require the extension in my project roots composer.json and it gets installed into typo3conf/ext/foobar correctly. But I can't enable it, because the EM is complaining about doctrine/cache. But the extension needs this require, so the project roots composer.json gets not cluttered with. So this would be enough in the project root:

```
{
  "name": "acme/project",
  "require": {
    "acme/foobar": "~1.0"
  }
}
```

This is a serious blocker to require extensions in the project via composer.

#### #14 - 2015-02-03 13:29 - Tilo Baller

Fully agree with Patrik.

Why are the [TYPO3 6.2 Release Notes](#) claiming something like *"Introducing the concept of Package Management brings interoperability with the whole world of Composer based PHP libraries."* and *"It is now possible to natively load Composer based libraries."* if it is just not true and hardly restricted?

#### #15 - 2015-02-03 14:42 - Daniel Corn

Unfortunately Tilo is right. In my opinion TYPO3 has no composer support. Or even worse: it would be better to have no composer integration than the current one.

Does anybody know how things are with version 7?

Anyway I love many parts of TYPO3!

#### #16 - 2015-02-03 14:47 - Patrik Karisch

If typo3 doesn't support composer it would be no problem, because we use it out of scope of the EM and only activate the composer installed extensions in the EM. The problem is how the EM wanna handle the composer.json of the extensions as addition to the depends constraint in the ext\_emconf.php. There it got stuck if your extension relies on non typo3 stuff... :(

#### #17 - 2015-04-29 14:30 - Gerrit Code Review

- Status changed from Closed to Under Review

Patch set 1 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <http://review.typo3.org/39055>

#### #18 - 2015-04-29 15:36 - Christian Opitz

Sorry, to reopen this but I needed at least a patch for this in order to get it into my TYPO3 installation. If you need this too, you can add the patch via your composer.json:

```
{
  "name": "vendor/project",
  "description": "My TYPO3 project",
  "config": {
    "vendor-dir": "Packages/Libraries"
  },
  "require": {
    "typo3/cms": "6.2.12",
    "vendor/typo3-cms-patches": "*"
  },
  "repositories": [
    { "type": "composer", "url": "http://composer.typo3.org/" },
    {
      "type": "package",
      "package": {
        "name": "vendor/typo3-cms-patches",
        "version": "0.0.1",
        "type": "patches",
        "require": {
          "netresearch/composer-patches-plugin": "~1.0"
        },
        "extra": {
          "patches": {
            "typo3/cms": {
              "6.2.12": {
                "9fe856ac96e6a53fef8277f36a4a80bace6f0ae9": {
                  "title": "[BUGFIX] Ignore dependencies on non typo3-cms-extension",
                  "url": "https://git.typo3.org/Packages/TYPO3.CMS.git/patch/9fe856ac96e6a53fef8277f36a4a80bace6f0ae9"
                }
              }
            }
          }
        }
      }
    }
  ]
}
```

If you want, you can close the issue again.

#### #19 - 2015-07-13 17:21 - Helmut Hummel

- Category changed from Extension Manager to 7 Composer