

TYPO3.Flow - Feature # 30418

Status:	New	Priority:	Should have
Author:	Benjamin Heek	Category:	Core
Created:	2011-09-29	Assigned To:	
Updated:	2011-10-21	Due date:	
PHP Version:			
Has patch:			
Complexity:			
Subject:	Package bootstrapping following dependencies		
Description			
It would be nice if packages are bootstrapped in correct order, following the dependency constraints that are described in the Package.xml of a package			
Related issues:			
related to TYPO3.Flow - Feature # 54151: Implement proper package dependency ...		Resolved	2013-12-02

History

#1 - 2011-09-29 12:14 - Benjamin Heek

this is the code I use

```
/**
 * order all packages on dependency constraints
 *
 * @return void
 */
protected function orderPackages()
{
    $ordering = array();
    $orderedPackages = array();

    /**
     * first we order all the dependencies per package
     */
    foreach ($this->packages AS $packageKey=>$package){
        $this->orderPackageDependencies($packageKey,$ordering);
    }

    /**
     * now add the packages that were not ordered, because they don't have dependencies
     */
    foreach ($this->packages AS $packageKey=>$package){
        if(!in_array($packageKey,$ordering)){
            $ordering[] = $packageKey;
        }
    }

    foreach ($ordering AS $orderedPackageKey){
        $orderedPackages[$orderedPackageKey] = $this->packages[$orderedPackageKey];
    }
}
```

```

    $this->activePackages = $sortedPackages;
}

/**
 * add dependencies of a package to the ordering
 *
 * @param string $packageKey
 * @param array $ordering
 */
protected function orderPackageDependencies($packageKey,&$ordering)
{
    if(in_array($packageKey,$ordering)){
        return;
    }

    $package = $this->getPackage($packageKey);
    $this->activatePackage($packageKey);
    $metadata = $package->getPackageMetaData();
    if ($depends = $metadata->getConstraintsByType('depends')){
        foreach ($depends AS $dependency){
            if($dependency instanceof \TYPO3\FLOW3\Package\MetaData\PackageConstraint){
                $packageDependencyKey = $dependency->getValue();
                $this->orderPackageDependencies($packageDependencyKey,$ordering);
                $ordering[] = $packageDependencyKey;
            }
        }
    }
}

```

#2 - 2011-10-21 13:37 - Karsten Dambekalns

- Project changed from *TYPO3 Flow Base Distribution* to *TYPO3.Flow*

#3 - 2011-10-21 13:38 - Karsten Dambekalns

- Category set to *Core*