TYPO3.Flow - Bug # 53533

Status:	New	Priority:	Should have
Author:	Christian Jul Jensen	Category:	Reflection
Created:	2013-11-11	Assigned To:	
Updated:	2013-11-11	Due date:	
PHP Version:			
Has patch:	No		
Complexity:	hard		
Affected Flow version:	Git master		
Subject:	Class reflection assumes reverse PSR-0, can lead to fail in autoloader		

Description

When gathering info about a package Flow currently assumes PSR-0 as bijective which is not the case.

Ie.

The file Pheanstalk/PheanstalkInterface.php does not necessarily hold the class \Pheanstalk\PheanstalkInterface, this situation has already been handled for files containing sideeffects rather than classes fx. autoload.php

The problem is that according to PSR-0 the file can hold the class \Pheanstalk_PheanstalkInterface, and thus the following can happen;

1. Flow analyzes filesystem and adds Pheanstalk/PheanstalkInterface.php to files to be reflected, expecting \Pheanstalk\PheanstalkInterface.
2. During the reflection some other class implements \Pheanstalk_PheanstalkInterface and the autoloader correctly loads this from Pheanstalk/PheanstalkInterface.php
3. The autoloader reaches Pheanstalk/PheanstalkInterface.php for inclusion and fails with 'Fatal error: Cannot redeclare class Pheanstalk_PheanstalkInterface'

This is not trivial to handle since the file could actually hold the expected namespaced class.
Possible ways to fix it:
  - During compiletime let ClassLoader notify ReflectionService on included files so it can be removed from further reflection
  - Let ReflectionService pre-analyze files for expected classes.

History