

Dependency Manager sample projects

You can download this [archive](#) which contains the following directories:

- `felix-framework-6.0.1/` -> this is a felix framework with pre-installed dependency manager r13 artifacts, as well as with configadmin and metatype bundles (these dependencies are required by dm)
- `hello.api/` -> provides a sample component using the dependency manager API.
- `hello.lambda/` -> provides a sample component using the dependency manager Lambda API.
- `hello.annotations` -> provides a sample component using the dependency manager annotations.

All samples can be built using either gradle or maven. To build with gradle, simply type `./gradlew jar`, and to build with maven, type `mvn clean install`. If you are using an http proxy, you must set the following environment:

- for gradle: `export GRADLE_OPTS="-Dhttp.proxyHost=<ip> -Dhttp.proxyPort=<port> -Dhttps.proxyHost=<ip> -Dhttps.proxyPort=<port>"`
- for maven, you must setup your http proxy in your `~/.m2/settings.xml`

Once built, the three jars for all hello projects can be put in the `felix-framework-6.0.1/bundles/` directory. Now start felix like this:

```
cd felix-framework-6.0.1
java -jar bin/felix.jar
```

You should then see the following logs displayed to stdout:

```
HelloComponent started using Dependency Manager API
HelloComponent started using Dependency Manager Lambda
HelloComponent started using Dependency Manager Annotations
```

You can also play with the dm shell commands. First, type "help dm":

```
g! help dm

dm - List dependency manager components
  scope: dependencymanager
  flags:
```

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```
compact, cp    Displays components using a compact form
nodeps, nd     Hides component dependencies
notavail, na   Only displays unavailable components
stats, stat, st Displays components statistics
wtf           Detects where are the root failures

options:
  bundleIds, bid, bi, b    <List of bundle ids or bundle symbolic names to
display (comma separated)> [optional]
  componentIds, cid, ci    <List of component identifiers to display (comma
separated)> [optional]
  components, c            <Regex(s) used to filter on component implementation class
names (comma separated), can be negated using "!" prefix> [optional]
  services, s             <OSGi filter used to filter some service properties> [optional]
  top                     <Max number of top components to display (0=all)> This command displays
components callbacks (init/start) times> [optional]
```

Now type "dm" in order to see all dependency manager components:

```
g! dm
[1] hello.annotations
[3] hello.HelloComponent registered
[2] hello.api
[0] hello.HelloComponent registered
[3] hello.lambda
[1] hello.HelloComponent registered
[10] org.apache.felix.dependencymanager.runtime
[2] org.apache.felix.dm.runtime.DependencyManagerRuntime registered
    active (DependencyManager-Component=*) bundle optional available
    org.osgi.service.packageadmin.PackageAdmin service required available
    org.osgi.service.log.LogService service optional unavailable
```

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