

EclipseCon Europe 2015 Unconference / IoT WG

Eclipse Concierge Project Update

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Eclipse Concierge

Project Overview

- Full OSGi core R5 compatibility
- Keep a small footprint to work well on embedded devices
- Remain “readable”
- Remain backwards-compatible
- Being a sandbox for innovation around OSGi
- See JavaOne presentation:
[Building Small and Efficient Internet of Things Applications with Concierge](#)



Eclipse Concierge

```
1. java
jhillers-MacBook-Pro:concierge-incubation-5.0.0 jhiller$
jhillers-MacBook-Pro:concierge-incubation-5.0.0 jhiller$
jhillers-MacBook-Pro:concierge-incubation-5.0.0 jhiller$
jhillers-MacBook-Pro:concierge-incubation-5.0.0 jhiller$
jhillers-MacBook-Pro:concierge-incubation-5.0.0 jhiller$ clear
jhillers-MacBook-Pro:concierge-incubation-5.0.0 jhiller$ java -jar framework/org.eclipse.concierge-5.0.0.20151029184259.jar ../demo.xargs
Logger initialized, loglevel is ERROR
-----
Concierge OSGi 5.0.0 on Mac OS X 10.10.5 starting ... (demo) startlevel=3
-----
Framework started in 0.0 seconds.
-----

Concierge> bundles
Bundles:
[ 0] (active) org.eclipse.concierge
[ 1] (active) Eclipse Concierge Shell (Incubation)
[ 2] (active) Eclipse Concierge StartLevel Service (Incubation)
[ 3] (active) Eclipse Concierge PackageAdmin Service (Incubation)
[ 4] (active) Apache Felix Lightweight HTTP Service Complete
[ 5] (active) Apache Felix Web Management Console (All In One)

Concierge> █
```

XargsFileLauncher

- Concierge supports Knopflerfish styled xargs file for startup
- Enhanced property (variable replacement) and install notation (wildcard support)
- Supports start level in scripts (-level <n>)

```
$ java -jar framework/org.eclipse.concierge-5.0.0.*.jar samples/demo.xargs
```

```
# demo.xargs
```

```
-Dorg.osgi.framework.system.packages.extra+=javax.xml.parsers
```

```
# -Drepo=http://www.us.apache.org/dist/felix
```

```
-Drepo=localRepo
```

```
# load bundles, use wildcard notation for local files, not for URLs
```

```
-istart bundles/org.eclipse.concierge.shell-5.0.0.*.jar
```

```
-istart bundles/org.eclipse.concierge.service.startlevel-5.0.0.*.jar
```

```
-istart bundles/org.eclipse.concierge.service.packageadmin-5.0.0.*.jar
```

```
-istart ${repo}/org.apache.felix.httplite.complete-0.1.4.jar
```

```
-istart ${repo}/org.apache.felix.webconsole-4.2.14-all.jar
```



Concierge is a small-footprint implementation of the OSGi Core Specification R5 standard optimized for mobile and embedded devices.

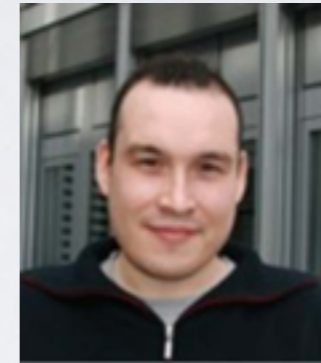


OSGi for mobile and embedded devices

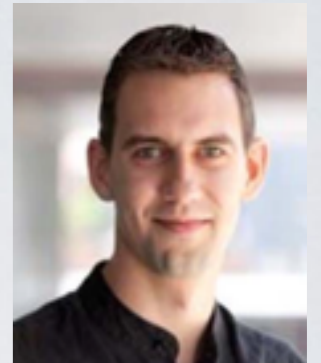
Concierge brings OSGi to your mobile and

Eclipse Concierge

- Project stats:
 - #downloads: #NA
 - #contributors: 3 committer (Gerrit in place for contributors)
 - #bugs: 59 (47 closed, 12 open)
 - #views: #NA (website in place since 08/2015)
- Project plan:
 - Release Review approved: see [#479458](#)
 - R5.0.0 released at 2015-10-28
 - Roadmap to be defined
- Key challenges:
 - Establish developer community around Concierge
- Collaboration Opportunities:
 - Kura, SmartHome, Paho, Californium, have a common stack for an IoT gateway
 - Facebook Open Academy with UNICAMP of Brazil
 - More lightweight OSGi services based on Concierge (EventAdmin, REST, Resolver, Coordinator)



Jan Rellermeyer



Tim Verbelen


Eclipse Concierge

EclipseCon / OSGi Community Event on Tuesday:

- Tim Verbelen: OSGi for IoT: the good, the bad and the ugly
- Jan Rellermeyer, Tim Verbelen, Jochen Hiller: Developing Distributed Internet of Things Applications Made Easy with Concierge

Website: www.eclipse.org/concierge

Thanks!

 Jochen Hiller
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