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# EMI 3 VOMS dependency changes

## C and C++ libraries

No changes are in place for C and C++ libraries.

## Java APIs

Two versions of voms-java-apis are provided in EMI 3, a version based on CaNL and a repackaged of the EMI 2 version for backward-compatibility with those that are not migrating to CaNL.

### v. 2.0.10 (non-CANL)

Nothing changes for those who depend on the non-CANL version. Just follow the instructions given for the EMI2 voms-api-java release.

### v. 3.0 (CaNL based)

The 3.0 CaNL-based version is provided in the following packages:

- voms-api-java3 (SL5, SL6)
- libvoms3-java (Deb6)

The above packages install the new java libraries in:

```
/usr/share/java/voms-api-java3.jar
```

which links to a versioned voms-api-java-3.x.jar. You should always depend on the **non-versioned** jar to build your classpath.

### Run time dependencies

The following table lists the Java API package dependencies on the three platforms:

Platform	Java API package name	Runtime dependencies
SL5	voms-api-java3	bouncycastle146-mail, canl-java
SL6	voms-api-java3	bouncycastle-mail, canl-java
Deb6	libvoms3-java	libbcmail146-java, libcanl-java

### ETICS dependencies

Just add a build-time dependency on the `emi.voms.voms-api-java3` "ghost" component.

### Maven dependencies

Version 3.0.0-rc2 is on Maven Central [↗](#) To develop against the latest snapshot (3.0-SNAPSHOT), add the following snapshot repository to your maven settings:

```
http://radiohead.cnaf.infn.it:8081/nexus/content/repositories/cnaf-snapshots/↗
```

## Service clients

New VOMS service clients (voms-proxy-init, voms-proxy-info, voms-proxy-destroy) are based on the new Java API library and provided by the `voms-clients3` package on the SL5, SL6 and Deb6 platforms.

The clients are backward-compatible with the 2.x clients, with limited exceptions affecting some CLI options not really used in production AFAWK documented in the clients release notes.

A repackaging of the 2.x service client packages are provided in EMI3.

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This topic: EMI > EMI3VOMS

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