



# V3 Upgrade Service

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# Agenda

- Pre V3 Upgrade, a 60 Sec History
- V3 Upgrade, the New Model
- Compatibility Requirements
- Service API and Example
- Supported Domain Versions
- Schedule and Reporting
- Test Domains
- More Information
- Q & A

# Pre V3 Upgrade

- Pre V3 Upgrade tool replicates the domain configuration of a previous server version to the current server version.
  - Translates the domain.xml
  - Redeploys applications
  - Misc
- > Upgrade report (upgrade.log)
  - Success
  - Failures
  - Flagged user intervention requirements (e.g. VM options that are not transferred)

# V3 Upgrade

- Each Module will implement a service that will upgrade the domain configuration to its requirements of the V3.
- Each service will report success, failures, and flag user intervention requirements to the log. (log-service TBD)
- The server will call each component's service in some predefined order (TBD).
- New CLI option, **--upgrade** added to cmd **start-domain**
- Upgrade tool
  - > Clone the domain of a previous server version
  - > Copy user provided JARs to the V3 lib directory
  - > Exec start-domain with the option --upgrade
  - > Report the logged results to the user

# Compatibility Requirements

- Common changes that break version backward compatibility
  - > Changing the signature of methods in a public API
  - > Changing the structure of key configuration files. (domain.xml)
  - > Changing the meaning of configuration file data in a significant way.
  - > Moving the location of a predefined file and not adding a rule to look in the old location.
  - > Changing of default database usually means some revision is needed to the domain.xml data.
  - > Changes to auto-generated code (APIs in JSP code generation)

\* <http://wiki.glassfish.java.net/Wiki.jsp?page=UpgradeCompatibilityRequirements>

# Service API

In glassfish-api module:

```
package org.glassfish.api.admin.config.ConfigurationUpgrade
```

```
/**  
 * Contract for services which want to perform some upgrade on the  
 * application server configuration  
 * @author Jerome Dochez  
 */
```

```
@Contract
```

```
public interface ConfigurationUpgrade {
```

```
    // this is a tag contract, implementation should just implement a
```

```
    // postConstruct method to perform upgrade on injected configuration data
```

```
}
```

# Service Example

In kernal-classes module:

```
package com.sun.enterprise.v3.services.impl.UpgradeLogging.java
```

```
@Service
```

```
public class UpgradeLogging implements ConfigurationUpgrade, PostConstruct {
```

```
    @Inject ( name="server-config")  
    Config config;
```

```
    @Inject  
    LoggingConfigImpl logConfig;
```

```
    // continued...
```

```
}
```

# Service Example (cont)

// Code condensed for slide

```
public void postConstruct() {  
    // v3 uses logging.properties to configure the logging facility.  
    // move all log-service elements to logging.properties  
    final LogService logService = config.getLogService();  
    if (logService == null ) return;  
  
    // get log levels and add to map  
  
    // apply changes  
    ConfigSupport.apply(new SingleConfigCode<Config>() {  
        public Object run(Config c) throws PropertyVetoException, TransactionFailure {  
            logConfig.updateLoggingProperties(logLevelMap);  
            c.setLogService(null);  
        }, config);  
    }  
}
```

- complex example: admin/config-api GrizzlyConfigSchemaMigrator.java



# Running the Service

```
asadmin start-domain --upgrade --user admin  
-- domaindir /sgesv2/domains/domain1
```

```
asupgrade
```

```
asupgrade -c
```

```
asupgrade -help
```

```
v3/extras/upgrade/upgrade-jar/README
```

# Supported Domain Versions

- AS9.1 Developer Profile
- AS9.1 ur1 Developer Profile
- AS9.1 ur2 Developer Profile
- SGES v2.1 Developer Profile
- SGES v2.2 Developer Profile
- V3-Prelude

# Schedule and Reporting

- Milestone # (TBD)
  - > Soft code freeze TBD
  - > Hard code freeze TBD

- Dashborad Wiki Page:

<http://wiki.glassfish.java.net/Wiki.jsp?page=V3UpgradeDashboard>

# Test Domains

<https://securewiki.sun.com/display/gfupgrade/EngTestDomains>

- **domain1** as created at install time (V2.1)
  - > SPARC
  - > WinXP
  - > Mac
- seam-2.1.1 **jpa** domain (V2.1)
  - > SPARC
  - > WinXP
  - > Mac

# More Information

- Dashboard Wiki Page:

<http://wiki.glassfish.java.net/Wiki.jsp?page=V3UpgradeDashboard>

- Upgrade Compatibility Requirements:

<http://wiki.glassfish.java.net/Wiki.jsp?page=UpgradeCompatibilityRequirements>

- V3 Upgrade Tool Spec:

<http://wiki.glassfish.java.net/Wiki.jsp?page=V3FunctionalSpecs>

- Discussion alias: [dev@glassfish.dev.java.net](mailto:dev@glassfish.dev.java.net)

- Upgrade Tool alias: [gfv3upgrade-team@sun.com](mailto:gfv3upgrade-team@sun.com)

# Q & A