New features of the LSC provisioning project with a particular focus about multi vendor support of on-the-fly updates notification

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This proposal is a 2009 J. Clarke's talk update about the LSC provisioning project with a particular focus about directory on-the-fly update notifications

After two years of active project development, LSC project has reached a new level, version 2.0, with major features, new connectors and administration web interface.

After adding asynchronous support through pull or event based triggers, LSC is now a daemon that is manageable by the interface and JMX remote commands. It allows tasks to be started, stop, monitored and launched again on a particular identifiers list (for example to force particular user propagation ...). These actions can be achieved also through the web interface which embeds a scheduler for planned executions.

- A connector API has been stabilized and some connectors have been added:
- A source NIS connector
- A source LDAPSync customer connector
- A source / destination native executable based connector
- A source / destination web service connector

LSC is also now fully embeddable in a regular application (standalone, server or web) or can be wrapped as a separate service in order to provide an application provisioning engine (either in a SaaS architecture or in a product oriented way).

The talk will include a short presentation of the next version features including:

- A switch from a stack threaded model to a message oriented middleware in order to support natively distributed and highly available deployments.
- A built-in database to maintain a synchronization status from run to run in order to provide a stateful engine and conflict resolution

Then it will present the way the LSC has embedded a syncrepl consumer in order to support live update event notification. But directory server agents from various vendors implement their own synchronization protocol and sometimes a change log or an audit log and [RFC 4533](#) is not widely supported. The talk will try and present various approaches in order to get some feedback about the way such applications must support this synchronization capability in a most vendor neutral way.