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CDO 2.0 Preview

Power to the People

Appealing to a Broader Community

Lighter, Faster and Better



2.0 Themes

§ **Power to the People**

Major improvements in the API and configuration will give clients considerably more control over the behaviour and performance of their repositories and sessions.

§ **Appealing to a Broader Community**

The CDO project has a proven record of robustness and flexibility. However, in the past best results could only be achieved with EMF models specifically generated for the usage with CDO. The upcoming 2.0 release will be less invasive to the client models and applications by being better aligned with EMF and other standards.

2.0 Themes

§ **Lighter, Faster and Better**

The CDO project has a proven track record of quality, reliability, and extensibility but all these aspects can be continuously improved.

Existing and new clients often desire more functionality from the framework while long established clients generally desire mostly improvements in performance.

Often these two are at odds since additional extensibility often has a performance cost and any changes, even performance boosting ones, potentially impact reliability.

2.0 Themes

§ Lighter, Faster and Better (continued)

Every effort will be made to introduce new capabilities so that they have negligible impact on established clients based on the guiding principle: ***If you don't use it, you don't pay for it.***

Because service and support has and always will take priority over new development work, development commitments and schedules are subject to arbitrary change, slippage, or even deferral.

Be sure to establish direct communication to ensure that any hard commitments are seen as that by the development team itself!

Power to the People

215688: Create save points

208689: Add resource queries

230832: Make remote invalidation configurable

233273: Develop Query mechanism

233277: Automatic attachment of dangling references

233314: CDOTransactionHandler.rollbackTransaction()

233490: Change Subscriptions

241463: Configurable timeout in Connector.openChannel()

241464: Configurable timeouts in CDO read-access requests

243279: Add caching properties to CDOSessionConfiguration

244801: Export resources to XMI...

Power to the People

- 245944: Make MEMStore more configurable (list sizes)**
- 247143: Add detach object handling to CDOTransactionHandler**
- 247428: Prefix for EClass names in DBStore**
- 247709: Override standard Teneo extensions for generating mapping**
- 248017: Provide a CDOSession.setInitialReferenceChunkSize()**
- 248325: Support CDOAudit.setTimeStamp()**
- 249278: Interceptors at the server-side to run validation, filtering, etc.**
- 249296: Provide userID for IChannel through IUserAware**
- 249297: Provide userID for CDOProtocolSession through IUserAware**
- 249536: Public view lock to protect clients against remote invalidation**
- 249847: Store resources in a hierarchical structure**
- 250064: CDOPackageRegistryImpl should offer delegation...**

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204890: Implement detach

248296: Manage CDOResource .isLoading

226778: getURIFragment and getEObject

242349: Net4J PostgreSQL DBAdapter

246705: Support containment proxies

246844: Implement Resource.delete()

213402: Support external references

247226: Transparently support legacy models...

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213369: Exception handling

216586: Optional pooling of store accessors

243287: Shortcut for getObject(object.cdoID())

243987: Decouple Signal from IChannel

**244006: Decouple IConnector from
IManagedContainer**

245794: Provide memory sensitive revision cache

245947: Provide a two level revision cache

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245950: Make TwoLevelRevisionCache the default

246454: Optimize transfer of Package URIs

246465: Optimize

CDOTransactionImpl.analyzeNewPackages

247174: Remove uniqueResourceContents

247764: Optimize ModelUtil.getCDOFeature()

248062: Refactor CDOView.

setLoadRevisionCollectionChunkSize

**248997: Protect closed sessions and their views
against illegal usage**