

CurrentDevelopment

This page list the work planned for the JDO 2.1 Maintenance Release. The work may involve updating the specification, changing the api, and/or adding tests or modifying tests in the TCK.

The task to adapt the JDO sources to the new apache license policy is completed, see [FixingLicenseHeader](#) for details.

N u m b e r	Task	Spe c i f i c a t i o n c h a n g e s	API c h a n g e s	TC K c h a n g e s
1	In 5.4.1, Compound Identity should be updated to reflect that for key fields of reference types, the type of the key field is the reference type in the class but the oid of the reference type in the oid class.	don e		don e
2	In Table 2: State Transitions, the transition for a transient-dirty instance during commit with DetachAllOnCommit = true should be to transient-clean. Also, state changes need to be added for detach methods and serialization. JDO-456	don e		don e
3	In 5.5.8 and 5.5.9, detachCopy should be removed from the list of methods that throw exceptions if applied to detached-clean or detached-dirty instances.	don e		
4	In 6.4.3, change "Portable JDO applications must not depend on whether instances of these classes are treated as SCOs or FCOs. " to "Portable JDO applications must not depend on SCO or FCO uniquing behavior, nor on the storage mechanism in the datastore. Portable applications may use the same instance of these classes as field values in any persistence-capable class instance." JDO-397	don e		
5	In section 7.5, change "If the class is abstract, null is returned." to "If the class is abstract, JDOFatalInternalException is thrown".	don e		
6	In section 7.5, add public byte fetchByteField(int fieldNumber); to ObjectIDFieldSupplier.	don e		
7	In section 7.5, add public byte storeByteField(int fieldNumber, byte value); to ObjectIDFieldConsumer.	don e		
8	In Chapter 8, add after class JDOHelper {public JDOHelper(); For some usage patterns, an instance of JDOHelper on which to invoke methods is preferable to the use of static methods. For this purpose, a public constructor is provided. JDO-444	don e	don e	
9	In Chapter 11, add a convenience method that returns a PersistenceManager proxy that can be used in web and ejb containers to dynamically bind to the transaction-associated PersistenceManager. JDO-445	don e	don e	
1 0	In Chapter 9, add section on managing date formatting for ObjectIdentity constructors. public synchronized void registerDateFormat(java.text.DateFormat df);	don e		
1 1	In 9.4, add method to retrieve persistence-capable classes that have been registered. public java.util.Collection getRegisteredClasses();	don e		
1 2	In 9.5, add method to verify that the class is authorized to be a state manager. public static void checkAuthorizedStateManagerClass(Class smClass);	don e		
1 3	In 9.5, add method to register multiple state manager classes. public static void registerAuthorizedStateManagerClasses(java.util.Collection smClasses) throws SecurityException;	don e		
1 4	In Chapter 11, add properties for configuring PersistenceManagerFactory that are consistent with JPA specification of TransactionType and Persistence Unit Name. JDO-449	don e	don e	
1 5	In Chapter 12, specify the behavior of PersistenceManager if it extends Serializable and writeObject is called.	JDO-455		x
1 6	In 12.6.6, clarify that a JDOUserException will be thrown when invoking newInstance: if a class is not persistence-capable, or does not declare a public no-args constructor; if an interface is not persistence-capable or declares methods that are not defined as persistent properties; if an abstract class is not persistence-capable or declares abstract methods that are not defined as persistent properties. JDO-453 JDO-487	don e		don e
1 7	In 12.6.8, section heading Explicit Detach, the sentence "If the parameter instance is detached, then JDOUserException is thrown. " should be removed.	don e		
1 8	In 12.6.8, add a note that serialization for storage using the serialized, serialized-element, serialized-key, or serialized-value metadata attributes does not create a detached instance.	don e		
1 9	In 12.6.8, clarify the behavior of instances during serialization both with and without an active transaction. JDO-456	don e		don e
2 0	In 12.7.5, change public int setMaxFetchDepth(); to public int getMaxFetchDepth();	don e		
2 1	In 12.7.5, specify that getFetchGroups returns a read-only copy of the active Fetch Groups.	don e		don e
2 2	In 12.7.6, p. 127, change "A recursion-depth of 0 will fetch the whole graph of instances reachable from this field." to "A recursion-depth of -1 will fetch the whole graph of instances reachable from this field."	don e		
2 3	In 12.7.6 p. 129, change fetch-depth to recursion-depth in the example.	don e		
2 4	In 14, add subqueries to permit e.g. select from Employee where this.salary > (select avg(salary) from Employee) JDO-446	JDO-569	don e	don e
2 5	In 14.6.2 p. 159, the sectionheading "Methods" is not marked as a sectionheading.	don e		
2 6	Add to 14.6.9: Projected SCOs are never owned, projected FCOs are always managed. Modifying unowned SCOs never has an effect on the database. Modifying FCOs no matter how you get them always has an effect if the tx commits.	don e		don e
2 7	In 15.3, p. 187, the third paragraph, beginning "The field on the other side" and ending "in the next transaction", is duplicated and will be removed.	don e		
2 8	In 15.3, add text to describe updating the other side of relationships where this side is deleted. This maintains referential integrity for delete as well as update. JDO-521	don e		don e

29	Add to 17.1.11 JDOUserCallbackException extends javax.jdo.JDOUserException	done	JD O-447	
30	In Chapter 18, add an xml element to specify the fetch plan to use for a query.		JD O-448	JD O-448
31	In 18.15.1, change "(e.g. a field of type Object can specify field-type="Integer")." to "(e.g. an element of type Object can specify element-type="Integer")."	done		
32	In Chapter 18, add to .jdo metadata: <!ATTLIST property field-type CDATA #IMPLIED>	done		
33	Add to 18.15.1 "The default for dependent-element is false."	done		
34	Add to 18.15.2 "The default for dependent-key is false."	done		
35	Add to 18.15.2 "The default for dependent-value is false."	done		
36	Change the last paragraph of 21.6 from "For Detachable classes, the results of restoring a serialized persistent instance graph is a graph of interconnected detached instances that might be attached via the attachCopy methods." to "For Detachable classes, the results of restoring a serialized persistent instance graph is a graph of interconnected detached instances that might be attached via the makePersistent methods."	done		
37	Change 21.13 from "Some methods require a non-null state manager. In these cases, if the jdoStateManager is null, then IllegalStateException is thrown." to "Some methods require a non-null state manager. In these cases, if the doStateManager is null, then JDOFatalInternalException is thrown."	done		
38	Change 21.21.7 Generated jdoGetManagedFieldCount sample implementation to avoid using the jdoFieldNames field that might be initialized after it is used during initialization of a subclass. (See ChangeLog for details.)	done		
39	Add to Chapter 23, constants defined in the JDOPermission class. (See ChangeLog for details.)	done		
40	Add methods to PersistenceManager and PersistenceManagerFactory to allow a user to get the current time and date from the server. Allow the PersistenceManagerFactory to be configured statically with TimeZone and Locale in case the information is not available from the server itself. JDO-462	done	done	
41	Add to 6.3 a section requiring support for enum types, including collections of enum types. JDO-546	done		done
42	Change in 12.6 signatures of some PersistenceManager methods to be generic. Note that these changes are source compatible with existing application programs. (See ChangeLog for details.) JDO-450 JDO-542 JDO-538	done	done	done
43	Add to 15.1 a paragraph describing that mapping an enum to a fixed-precision numeric type uses the ordinal() value for storage; mapping to a character column type (CHAR, VARCHAR, etc.) uses the name() value for storage; mapping to any other column type is an error. JDO-546	done		done
44	Provide in a new chapter a set of annotations that map directly to xml elements as an alternative to using xml metadata. Describe how jdo implementations can use either JDO annotations or JPA annotations to provide metadata. JDO-451 details JDO-503	done		JD O-564
45	Provide interfaces that extend both JDO and JPA in order to make it easier to migrate applications from JDO to JPA. JDO-452	done	done	
46	Add method evictAll taking a class instance to PersistenceManager interface. JDO-535	done	done	
47	Add new test case for JDODetachedFieldAccessException.	done	done	JD O-563