caCORE SDK 4.4 Release Notes

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National Cancer Institute Center for Biomedical Informatics and Information Technology
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Product Changes

New Features

caCORE SDK release 4.4 contains a few new features and enhancements.

- Integration with ISO 21090 Data Type 2.1.1 Common Library. SDK 4.4 integrates the ISO 21090 Data Type v2.1.1 Common Library jars.

- Support for ISO 21090 Data Type v2.2 Common Library. SDK 4.4 has been tested with the ISO 21090 Data Type v2.2 Common Library jars, which contain various additional fields when compared to the ISO 21090 Data Type 2.1.1 library. However, SDK v4.4 does not yet integrate the additional fields, nor is distributed with the ISO v2.2 library. Users can simply choose to use ISO v2.2 library jars without the SDK crashing.

- Support for ISO 21090 Data Types within the SDK Internal Query Engine. The SDK internal query engine has been enhanced in SDK 4.4 to support ISO data type queries.

- Support for ISO 21090 Data Types within the Web User Interface. The web interface is disabled in SDK 4.3 whenever support for ISO data types is enabled, as the internal Query Engine changes needed to support searching for classes containing ISO data type attributes had not yet been implemented. SDK 4.4 now allows the web user interface to be enabled and disabled independently of whether support for ISO data types is enabled. Also, the Search Criteria web interface has been enhanced to enable entry of search criteria values for ISO data type attributes.

- Support for ISO 21090 Data Types within the RESTful JSON and HTML Interfaces. The RESTful interfaces are disabled in SDK 4.3 whenever support for ISO data types is enabled, as the internal Query Engine changes needed to support searching for classes containing ISO data type attributes had not yet been implemented. SDK 4.4 now allows the RESTful JSON and HTML interfaces to be enabled and disabled independently of whether support for ISO data types is enabled. Also, the RESTful JSON and HTML interfaces have been enhanced to enable the formatting of query results containing ISO data type attribute data.

Bug Fixes

Items marked **Bug:** can be found in the GForge project Bugs tracker group.

- **Bug:** [#28837] Unable to query AD and EN datatype through Restful API

- **Bug:** [#28840] Unable to query DsetII and other Dset datatypes through Restful API

- **Bug:** [#27529] Error related to SDK generated system when resultset size is larger than resultCountPerQuery

Important Remaining Issues

- The SDK will not generate both ends of bi-directional associations within the Java Beans.

- The caCORE Castor-based Marshaller does not currently handle recursive bi-directional associations.

- The SDK purposely ignores the lower-bound multiplicity value from the UML model when generating the Schemas. A deployment option or property will be provided in a future release that will force the SDK to honor the value placed within the model.

- When building a system, an error will be generated if Java keywords are used as class and/or attribute names in the UML logical model. Similarly, SQL keywords in the data model will generate errors.

- If you use multiple data sources from different databases servers, the toolkit will not be able to generate multiple orm*.cfg.xml files automatically. You will need to generate a single ORM, then manually split that file into however many ORM's you are using.

- The Search criteria query page is not displayed for implicit classes

- If Grid Security is enabled, the following Warning message is displayed on the JBoss console:

    16:55:14,126 WARN [Init] Exception while installing Function

    java.lang.NoSuchMethodException: org.apache.xpath.compiler.FunctionTable.installFunction(

    java.lang.String, org.apache.xpath.Expression)

    at java.lang.Class.getMethod(Class.java:1581)

    at org.apache.xml.security.Init.registerHereFunction(Unknown Source)

    This warning can be ignored. The HTTP interface has reserved characters like % and #.*

    If the reserved characters are part of the query, the HTTP parser will not work correctly.

    Example: "test%122".

    A workaround is to use the wild card character '':*

    *Example: "test*122"* [#13168] Polymorphic Implicit Inheritance queries fail if firstResult or maxResult is set prior to executing query* [#16327] Pagination of result set causes incorrect construction of the result list* [#24850] Ambiguous nested query should raise Exception. A nested query criterion with multiple paths between the source and the target results in random behavior. The workaround is to specify a fully-qualified query criterion.* [#25705] SDK command line build fails if tomcat is not manually closed. The workaround is to stop the server manually, then re-execute the scripts.*

- [#26134] Implicit Inheritance test case fails due to Hibernate

- [#26135] Character data not supported in the Web Services interface

- [#26136] Generated System doesn't support multiple association between objects.

- [#26528, #26529] Application Server (JBoss / Tomcat) occasionally fails to stop or start via the BDA scripts. The workaround is to stop or start the server manually, then re-execute the scripts.

- [#29764] AD, EN, ENON, ENPN ISO Data Types Require that a Correct Part Type Value be Supplied When Querying Using any Other Sub-Attribute.

- [#29809] Incorrect QBE search results for EN and AD data types.

- [#30268] SDK Support for ISO Data Types does not work with Postgres v8.3+.

CORE Product Dependencies

Refer to the CORE Product Dependency Matrix for the caCORE SDK and other software technologies on which this release of this product relies.

Release History

Release	Date
caCORE SDK 4.4	27 January 2011
caCORE SDK 4.3	21 June 2010
caCORE SDK 4.2	07 December 2009
caCORE SDK 4.1.1	15 January 2009

caCORE SDK 4.1	07 November 2008
caCORE SDK 4.0.1	15 April 2008
caCORE SDK 4.0	11 October 2007
caCORE SDK 3.2.1	22 March 2007
caCORE SDK 3.2	22 December 2006
caCORE SDK 1.1	27 March 2006
caCORE SDK 1.0.3	28 July 2005
caCORE SDK 1.0.2	12 April 2005
caCORE SDK 1.0.1	16 February 2005
caCORE SDK 1.0	31 January 2005