Release Notes

caArray MAGE-OM Grid Service API
Version 1.6
November 2007

National Cancer Institute Center for Bioinformatics

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Contents
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1.0 MAGE-OM Grid Service API Version 1.6 - Introduction
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The caArray (http://caarray.nci.nih.gov/) software has been developed by
the NCI Center for
Bioinformatics (NCICB) to create an information-sharing network modeled on
the World Wide
Web. caArray consists of a microarray database and microarray data
visualization and analysis
tools. caArray is an open source project, and the source code and APIs are
available in the
caArray Informatics page of the NCICB website. The goals of the project
are to make microarray
data publicly available, and to develop and bring together open source
tools to analyze these
data. Existing caArray documentation can be found on the caArray page of
the NCICB website:
http://caarray.nci.nih.gov/caARRAY/devdoc/caarraydbdocs .

The caArray MAGE-OM API is a set of Java objects that adhere to the object
model defined by
OMG's Gene Expression v1.1. The caArray MAGE-OM API objects provide access
to data in
the caArray database via Remote Method Invocation (RMI) call issued to a
dedicated MAGE
server at NCI or any other site with an accessible MAGE-OM server
installation. There are two
primary types of objects defined in the API:
  1. MAGE-OM-compliant interfaces
  2. Custom MAGE-OM Impl (implementation) objects
The MAGE-compliant objects are defined as Java interfaces, which the
custom MAGE-OM Impl
Java classes implement. This ensures the custom MAGE-OM Impl provide a
MAGE-OM
compliant API. The MGED Society web site is an excellent source for
supplemental material on
the MAGE object model.

The caArray MAGE-OM Grid Service API is a caGrid Data Service that exposes
the functionality
of MAGE-OM API over the grid. The Grid Service provides access to data in
the caArray database
via webservice call issued to a dedicated Grid Service server at NCI or
any other site with

an accessible caArray MAGE-OM Grid Service installation.

For more information about caGrid, see http://www.cagrid.org

The caGrid 1.0 User and Programmer Guides are excellent sources for additional material,
see http://gforge.nci.nih.gov/frs/?group_id=25

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    2.0 Release History
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        caArray MAGE-OM Grid Service API v1.6   -- November 2007
        caArray MAGE-OM Grid Service API v1.5.0.1   -- August 2007
        caArray MAGE-OM Grid Service API v1.5   -- July 2007
        caArray MAGE-OM Grid Service API v1.0   -- December 2006

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    3.0 New Features and Updates
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    - Now supports caArray MAGE-OM API version 1.6
        - Built using caGrid 1.0 release and compatible with caGrid 1.1

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    4.0 Defects Fixed Since Last Release
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    - Bug 7722 No deserializers for MAGE classes
    - Bug 8864 Equal - Not Equal Query on Same ID produces Same Result

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    5.0 Known Issues/Defects
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    - The published XSDs for the CaArraySvc produce non-compliant stubs for
    data service clients & Introduce
      toolkit users, see Bug 8416 -
      https://gforge.nci.nih.gov/tracker/index.php?func=detail&aid=
      8416&group_id=82&atid=422.
      This will effect clients who attempt to deserialize responses using a
      different set of (de)serializers than the provided
      custom CaArraySerializer & CaArrayDeserializer classes referenced within
      the client-config.wsdd

    - See GForge for existing open bugs and feature requests,
      http://gforge.nci.nih.gov/tracker/?group_id=82

    - # Marshalling Performance #
      The default behavior of the marshaller is to serialize the results
      one level deep away from the target object. This results in many
      RMI calls being made to populate each object in the result set.
      This behavior can be configured using the marshallerXpathRegex
      parameter in server-conf.wsdd. This regular expression must evaluate to
      true
      before traversing any association.

      Alternatively, one can just use the "AttributeNames" query modifier to
      avoid serialization all together.

    - # CQL Support #
      1. The MAGEOM API doesn't process nested sub groups correctly.
      2. The MAGEOM API doesn't support IS_NULL and IS_NOT_NULL predicates.

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    6.0 Bug Reports, Feature Requests, and Support
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Send email to ncicb@pop.nci.nih.gov to request support or
report a bug or request a new feature. Existing requests and
resolution may be viewed at the caArray GForge URL:

http://gforge.nci.nih.gov/tracker/?group_id=82

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    7.0 Documentation and Files
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All documentation and files are bundled with the distribution.
Documentation can be found in the docs subdirectory of this
distribution.

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    8.0 NCICB Web Pages
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The NCI Center for Bioinformatics
-- http://ncicb.nci.nih.gov/

NCICB Application Support
-- http://ncicb.nci.nih.gov/NCICB/support

NCICB Download Center
-- http://ncicb.nci.nih.gov/download/