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MARKETMAP

MarketMap
Analytic
Platform

**MarketMap Analytic Web
Release Notes**

Release 3.0
October 7, 2011

This document is the MARKETMAP ANALYTIC WEBRELEASE NOTES. It contains information about a new release of MarketMap Analytic Web. It is intended for existing accessPoint users.

Release 3.0

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SUNGARD®

340 Madison Avenue, 8th Floor
New York, NY
10173 USA

800-825-2518
www.sungard.com/marketmap

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Overview

This document contains information about MarketMap Analytic Web, Release 3.0 for continuing users. New users should refer to the MarketMap Analytic Web documentation (see p. 12) for full details. The following information is included:

- ▲ **New in Release 3.0**
 - ▶ New features
 - ▶ Command, configuration and API changes
 - ▶ Backward incompatibilities
 - ▶ Bugs fixed
- ▲ **System requirements**
 - ▶ Operating system
 - ▶ Client software
 - ▶ Java™ version
- ▲ **Known bugs and issues**
- ▲ **Getting more information**

accessPoint is now MarketMap Analytic Web

MarketMap Analytic Web was formerly named **accessPoint™**. The name accessPoint occurs extensively in the code, and is used throughout the documentation to refer to the product.

The following components of the MarketMap Analytic Platform (formerly Fame) are also referenced in this document by their former names:

- ▲ MarketMap Analytic Database (formerly FAME database)
- ▲ MarketMap Analytic Query Language (formerly FAME 4GL)
- ▲ MarketMap Analytic Server (formerly FRDB server)
- ▲ MarketMap Analytic Java Toolkit (formerly TimeIQ)
- ▲ MarketMap Analytic C++ Toolkit (formerly FAME C HLI)

New in Release 3.0

This section describes new features, changes, backward incompatibilities, and bug fixes introduced in accessPoint Release 3.0.

New features

The following sections describe functionality added in this release. Refer to the documentation for full details about using these features (see p. 12 for a list of available documentation).

Support for new features in TimeIQ

Features added in the MarketMap Analytic Java Toolkit (TimeIQ) Releases 3.0 through 3.2, which support Fame database changes introduced in Fame Release 10.0, are now supported in accessPoint. accessPoint did not change to support these features, but they were confirmed by testing. The new features tested are as follows (see the MARKETMAP ANALYTIC JAVA TOOLKIT RELEASE NOTES for details):

- ▲ Millisecondly frequency
- ▲ Extended date and case ranges
- ▲ Longer object names
- ▲ More user-defined attributes
- ▲ Expanded basis and observed attributes

New license file

The accessPoint license is now contained in a text file, `FameLicense.txt`, instead of a `.jar` file as in previous releases. The same `FameLicense.txt` file can license both accessPoint and TimeIQ.

The old `AccessPointLicense.jar` file cannot be used with this release. Contact your SunGard representative or license.dms@sungard.com if you need to obtain a new license.

The license check script `linfoAp2.bat/linfoAp2.ksh` is no longer needed and has been removed. To check details of the new license, read the unencrypted portion of the file.

New license file locations

accessPoint now checks more locations to find a valid license. You can place your accessPoint license in any of the following locations (checked in this order):

1. `<accessPoint home>\WEB-INF\lib` directory
2. Location specified by the FAME_PATH environment variable
3. Location specified by the FAME environment variable

Transaction assert

The Fame Data service and the Web Service support “assert” functionality, which checks for changes to a database before committing a transaction. The new command and method take a Boolean expression to be evaluated on the write server. If the expression is false, the commit is rolled back; otherwise it proceeds.

See the **assert** command and `assert` Web Service method descriptions in the MARKETMAP ANALYTIC WEB PROGRAMMER’S GUIDE.

New output parameters

This release introduces several new parameters to control tabular output. These new parameters apply only to the following output providers, except where noted:

- ▲ HTML
- ▲ CSV
- ▲ ADO XML

adolIncludeMissing

The “adolIncludeMissing” parameter controls how missing values are returned.

This parameter applies to ADO XML output only.

The values are as follows:

Value	Description
true	Missing values are included in the output and represented by empty strings
false	Missing values are not included in the output.

The default is false.

You can also set this parameter globally (for all ADO XML output). You can override the global setting on an individual command.

To set a global output parameter, add a <parameter> element in the accessPoint configuration file, with “name” and “value” attributes for the parameter you want to set. For details see the sections “parameter element” and “Overriding standard output provider configurations” in the ACCESSPOINT ADMINISTRATION AND INSTALLATION GUIDE.

nidErrorMessage

The “nidErrorMessage” parameter controls what the data contains when a requested object is not found. The values are as follows:

Value	Description
true	The first cell of the object’s column contains an error message.
false	No data values are returned for the object.

The default is true.

remevalNameExpression

The “remevalNameExpression” parameter controls how an object is labeled when it contains the result of a REMEVAL request.

This parameter also applies to serialized TimeIQ and XML output of Fame data, where it affects the name of the object returned for remeval requests.

The values are as follows:

Value	Description
true	The column or row name is the complete REMEVAL expression. In HTML, CSV, and ADO XML output, the column name is truncated at 255 characters.
false	The column or row name is “Column_” where <i>n</i> is the column or row number

The default is true.

precision

The “precision” parameter controls the number of digits after the decimal point in numeric results. This parameter was introduced in Release 1.7. This release introduces the following new value:

- ▲ **auto** – Each returned value contains at least one decimal place, and contains as many decimal places as required.

Scientific notation is used if the value is greater than 10^7 or less than 10^{-3}

The default is 4 (unchanged from previous releases).

Expanded database channel information

The Fame Data service and the Web Service support four new data channel attributes:

- ▲ **version** – the Fame database version
- ▲ **dimension** – the database's dimension attribute
- ▲ **extradots** – the database's extradots attribute
- ▲ **remeval** – whether the channel supports REMEVAL

Use the following commands/method to retrieve this information:

- ▲ **get_channel_info** HTTP command
- ▲ **status** administrator HTTP command
- ▲ `getChannelInfo` Web Service method

Use the following command/method to set these attributes:

- ▲ **set_db_attributes** HTTP command
- ▲ `SetDbAttributes` update action of the `updateFameData` Web Service method

Missing value representation in output

The CSV, HTML table, and XML ADO output providers support a new “blankMissing” parameter to control how missing values are represented in output.

If blankMissing is true (the default), missing values will be blank. If blankMissing is false, missing values will be strings containing NA, NC, or ND.

See “Working with tabular output” in the MARKETMAP ANALYTIC WEB PROGRAMMER’S GUIDE.

Compact XML output

The Fame Data Service and the Web Service support a new “compact” parameter to use when returning Fame data in XML form. When “compact” is true, redundant information is removed from the XML output.

See “Retrieving compact XML output” in the MARKETMAP ANALYTIC WEB PROGRAMMER’S GUIDE for details of the specific information removed.

Logging Web Service requests

You can now configure an accessPoint log to capture the XML sent in Web Service requests. To do this, configure a log to capture SYSTEM messages at level LOWEST.

See “Managing accessPoint logs” in the MARKETMAP ANALYTIC WEB ADMINISTRATION AND INSTALLATION GUIDE.

Log snapshot

The Fame Data service administrator command **get_log_snapshot** supports a new parameter, “maxRecords”, which specifies the number of lines to retrieve from the end of the log. In previous releases, this command always returned the entire log.

Web Service changes

The Web Service version was updated. The new version is version 4. Versions 2 and 3 are retained but deprecated. Version 1 was removed. You can run any or all versions. The updated `<accessPoint home>/webapps/WEB-INF/services.xml` shows how to configure the Web Services.

Command, configuration and API changes

This section describes incidental changes in accessPoint commands, configuration and API that do not necessitate client code changes. Also see the list of [New features](#) (p. 2) and [Backward incompatibilities](#) (p. 8).

Fame Data service

- ▲ Command changes
 - ▶ The output of the **get_channel_info** and **status** commands changed (see [Expanded database channel information](#))
 - ▶ For the **add_objects**, **set_basis**, and **set_observed** commands, a new setting “NC” is allowed on the “basis” or “observed” parameter for time series that aren’t numeric or precision.

- ▲ Configuration changes
 - ▶ New, optional attributes for the Fame Data Service configuration file <connection> element:
 - handshake* – Encryption policy for handshakes (user name and password) when connecting to a Fame server
 - transport* – Whether or not data is encrypted when transmitted from the server to the client
 - key* – Encryption key to use when transmitting data from a FAME server
 - ▶ When specifying the port number in the <server> element, “address” attribute, the # sign is optional.
- ▲ API changes
 - ▶ `com.fame.accesspoint.general.famedata.Transaction` – Added `Assert` method.
 - ▶ Made it easier to maintain backward compatibility when a new version of the Web Service is introduced (these changes do not affect the schema or the WSDL):
 - Deprecated `com.fame.accesspoint.general.fame.output.TimeIQConverter`; added new Web Service version-specific `TimeIQConverter` classes.
 - Added new `com.fame.accesspoint.general.famedata.updates` package containing classes that describe data updates in a way that does not depend on a specific `FameData` schema version.
 - Deprecated
 - `FameDataManager.updateFameData(FameDataUpdates, Properties, Transaction, Session)` which relies on V3 of the `FameData` schema; added `FameDataManager.updateFameData(List<FameUpdate>, Properties, Transaction, Session)` method which does not rely on a specific version of the `FameData` schema.

Relational Data service

- ▲ API change
 - ▶ Added new methods required by Java 6 to the `CachedResultSet` class, which is used to return serialized relational data. The serialization compatibility of this class did not change.

Output Providers and Converters

- ▲ Added a new `ToOutputTable` interface for formatting data into an `OutputTable`.
 - ▶ The `OutputConverter` interface extends the `ToOutputTable` interface so all output converters can format data into an `OutputTable`. Added a default implementation of the interface to `OutputConverterAdapter`. **This is a backward incompatibility.**
 - ▶ Implemented the `ToOutputTable` interface in `FameDataSchemaConverter`.
- ▲ Deprecated the `ResultSetConverter.toResultSet(OutputTable, Properties)` and `TimeIQConverter.toTimeIQ(OutputTable, Properties)` methods and replaced them with `convertTable(OutputTable, Properties, Class)` methods for more flexibility and consistency in output conversion.
- ▲ Made it easier to support conversion properties when converting between `TimeIQ` and `FameData` schema objects. This required changes to the implementation of Web Service V3 and V4. The changes do not affect the schema or the WSDL.
 - ▶ In `SchemaToTimeIQ` and `TimeIQToSchema`, added a constructor that takes properties and replaced most static methods with non-static methods that use the properties. **This is a backward incompatibility.** Deprecated other static methods in favor of non-static methods that use the properties.
 - ▶ In `TimeIQConverter`, deprecated the static `getOutputTable` methods and replaced them with non-static methods that use the properties.

- ▲ Added a new `DateConversion` class containing methods to parse and format frequencies using the `fameDates` parameter.
- ▲ Deprecated the `FameDataSchemaConverter.getCalendar(String,boolean)` method in favor of the new `DateConversion.parseFrequency(String,boolean)` method and the new non-static `TimeIQToSchema.getCalendar(RegularCalendar)` method.

Other changes

- ▲ Added a `com.fame.util.MessageListLogger` class to collect log messages in a list.

Backward incompatibilities

This release introduces one backward incompatibility with previous releases; the [TimeIQ Serialization version](#). Unless you use serialized TimeIQ objects, no other changes in this release require you to change client HTTP or Web Service applications.

Serialization version

The TimeIQ serialization version on which this accessPoint release is based is incompatible with previous accessPoint releases. accessPoint 3.0 client applications that process serialized TimeIQ objects must use TimeIQ Release 3.0 or higher.

Bugs fixed

The following bugs were fixed in Release 3.0:

Bug #	Description
20805	The FameDataService <code>add_objects</code> command sets values given in the <code>value</code> parameter for a namelist.
20812	The Fame Data Service <code>set_observations</code> command returns an appropriate error message when no value and no range or an invalid range are given.
22525	Improved thread management prevents an <code>IllegalMonitorStateException</code> when processing a <code>get_objects</code> request.
22990	Adding a user-defined attribute of type date succeeds.
23612	A multi-object request in which one or more objects are not found correctly returns data for the remaining object(s).
23915	When <code>replace-sessions</code> is true and more concurrent logins are attempted than allowed, the server correctly logs out older sessions.
51596	Classes in <code>com.fame.accesspoint.general.famedata.results</code> are not obfuscated.
51796	Server error no longer occurs when <code>max-sessions</code> is 1 and <code>replace-sessions</code> is true, and many near-simultaneous logins for a given user are attempted.

System requirements

accessPoint requires the following hardware and software:

Component	Requirement
Host operating system	Microsoft® Windows® XP, Vista, Server 2008, 7 Oracle® Solaris™ 10 Red Hat Enterprise Linux 5 and 6
Memory	64 MB for accessPoint server Capacity for accessPoint metadata (if loaded - see your SunGard representative for details) Capacity for Fame data cache (variable - depends on usage)
Servlet software	Apache Tomcat 5.5.20 or 6.0
Java Software Development Kit (JDK)	Version 1.6.0
Fame TimeIQ	TimeIQ installation is not required to run accessPoint. Client TimeIQ applications require Release 3.0 or higher
JDBC	Clients that use the default output from the ResultSet output provider must have the accessPoint-SQL-2.0.jar (provided in the accessPoint distribution)

Java version

accessPoint Release 2.0 was successfully tested with the JDKs identified by the following responses to the `java -version` command:

▲ Windows XP, 32-bit

```
java version "1.6.0_18"
Java(TM) SE Runtime Environment (build 1.6.0_18-b07)
Java HotSpot(TM) Client VM (build 16.0-b13, mixed mode, sharing)
```

▲ Windows Vista, 64 bit and Windows Server 2008, 32-bit

```
java version "1.6.0_17"
Java(TM) SE Runtime Environment (build 1.6.0_17-b04)
Java HotSpot(TM) 64-Bit Server VM (build 14.3-b01, mixed mode)
```

▲ Windows 7, 64-bit

```
java version "1.6.0_22"  
Java(TM) SE Runtime Environment (build 1.6.0_22-b04)  
Java HotSpot(TM) 64-Bit Server VM (build 17.1-b03, mixed mode)
```

▲ Solaris 10

```
java version "1.6.0_21"  
Java(TM) SE Runtime Environment (build 1.6.0_21-b06)  
Java HotSpot(TM) Server VM (build 17.0-b16, mixed mode)
```

▲ Linux 5

```
java version "1.6.0_02"  
Java(TM) SE Runtime Environment (build 1.6.0_02-b05)  
Java HotSpot(TM) 64-Bit Server VM (build 1.6.0_02-b05, mixed mode)
```

▲ Linux 6

```
java version "1.6.0_20"  
OpenJDK Runtime Environment (IcedTea6 1.9.7) (rhel-1.39.1.9.7.el6-x86_64)  
OpenJDK 64-Bit Server VM (build 19.0-b09, mixed mode)
```

Other JDK versions are not supported.

To download the latest version of Java for your system:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>.

Known bugs and issues

- ▲ In the HTML demonstration application (<http://<host:port>/accessPoint/demo>), REMEVAL options do not work with Firefox. They do work with Internet Explorer. [16151]
- ▲ The **add_aliases** and **delete_aliases** commands, and the `AddAliases` and `DeleteAliases` updates for the `updateFameData` Web Service method, can't add or delete more than one alias in the same transaction. Only the last alias added or deleted will be committed. [18362 and 20434]
- ▲ Writing to Fame databases via the Fame Data service on remote accessPoint servers is not currently supported.
- ▲ The Fame Data service should return an error on an attempt to set a boolean attribute with the **set_attributes** command if the attribute given is not a valid boolean value. Instead, "true" is recognized as the boolean value true, and any other value is treated as the boolean value false. [20762]
- ▲ The AuthenticationService should return an error when the `userId` or `ticket` parameter given on the **logout_sessions** command is empty. [20763]
- ▲ The **get_attributes** and **get_attributes template** commands should return an error when an unauthorized object is requested. [20816]
- ▲ The help command should not show the `namesOnly` parameter for the **get_objects** and **get_object_info** commands. That parameter is not recognized on those commands. [20832]

Getting more information

Documentation

The following documentation accompanies this accessPoint release:

- ▲ MARKETMAP ANALYTIC WEB ADMINISTRATION AND INSTALLATION GUIDE – Contains instructions for setting up, running, and monitoring accessPoint
- ▲ MARKETMAP ANALYTIC WEB PROGRAMMER'S GUIDE – Contains information needed to develop accessPoint client applications or custom components
- ▲ MARKETMAP ANALYTIC WEB RELEASE NOTES (this document) – Overview of this accessPoint release

- ▲ **MarketMap Analytic Web Developer's Pack**

This bundle includes the following components:

- ▶ Javadoc for accessPoint, including the standard service and output providers and the sample Java classes
- ▶ Sample custom service and output providers
- ▶ Sample XSLT transformations for entitlement audit files
- ▶ Sample Web Service client application
- ▶ `accessPoint-SQL-3.0.jar` – needed on a client to deserialize output from the ResultSet output provider

To download these items: <http://fame.sungard.com/support.html> > Downloads > MarketMap Analytic Web (accessPoint)

Technical Support

For more information from...**Contact SunGard on:**

Technical support (North & South America)

SunGard Fame Financial Software Hotline

877.987.FAME (3263)

hotline.dms@sungard.com

Monday through Friday

9:00am - 5:00pm ET*

Technical support (Europe, Asia, Africa, Australia)

SunGard Fame Financial Software & Data Hotline

(+44) (0) 20.8081.2444

hotline.dms@sungard.com

Monday through Friday

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