

OpenFin, SAML2 authentication, improved dashboard layout tools & more

We are introducing many new features and performance improvements in AMI this month. See below for all of the features and enhancements.

Highlights

- **Support for OpenFin**
AMI Dashboards can now seamlessly publish/subscribe to message buses, and utilize the request/response interface. Additionally, there is a full API to interface with OpenFin's Window Management.
- **Support for the Security Assertion Market Language v2 (SAML2)**
Authentication can be delegated to an identity service provider.
- **Enhancements to the Command Line Interface and AMIDB database session.**
Local variables can be defined. Ability to set session level timezone and time formatting options.
- **Dashboard Object Browser for searching/managing all elements within a dashboard.**
A new tool has been added to provide a consolidated view of all resources within all actively loaded layout files. This includes Panels, Relationships and Datamodels. Quickly search for dependencies, etc.
- **Improved SCM**
Ability to view changes to individual Objects, such as a datamodel, etc.
- **A new scroll panel for a smarter way of reacting to Changes in window size**
Any number of panels can be combined together and share a single scroll panel, instead of scrolling individually.

Datasource Adapters

- **URL configuration**
JDBC Adapters now support the `OVERRIDE_URL=url` option to allow manual configuration of URL in more complex configurations.
- **Customizable file format**
Flat file Adapter can write files now when the `WRITE_ENABLED=true` option is set. The file format is customizable using a series of options.

GUI Framework Integrations

- **Added OpenFin Adapter**
19 functions and 5 callbacks have been added to provide support for OpenFin integration.
- **Added to Finsemble: maximizeWindow**
Call to maximize a Finsemble embedded window.
- **Added to Finsemble: minimizeWindow**
Call to minimize a Finsemble embedded window.
- **Added to Finsemble: moveWindowTo**
Call to Move Finsemble window to a location on a multi-monitor configuration.

Command Line Interface

- **Added setlocal string_template=on/off**
If enabled (on) then \${...} will be interpreted as a string template, otherwise it's considered literally.
- **Added setlocal unprintable_chars=print**
If set, then unprintable chars will be sent to the terminal.
- **Added setlocal password_encrypt=on/off**
If true, then the password supplied at LOGIN should be encrypted, set strEncode/strDecode methods.
- **Added setlocal timezone=...**
Set the timezone for this session only.
- **Added setlocal datetime_format=...**
Set the datetime format for this session only, controls how UTC and UTCN variables are displayed.
- **Non-SQL expressions**
Command line will now evaluate non-SQL expressions, ex: 5 * 3.

Security

- **Added SAML support**
- **AmiClient SSL connection Support**
The AmiClient.java class can be supplied with a certificate for connection to the relay.

Options

- **Added -Dprint.java.env=true option**
If set, print out various environment conditions at startup, including java version and class paths.
- **Added amiscript.db.variable.xxxxx to AMI Center properties**
Set global variables that can be read within the AMIDB sessions.
- **Added ami.port.keystore.file and ami.port.keystore.password**
See Security -> AmiClient SSL Connection.
- **AmiClient has DebugMessages option**
If set debug messages are they sent/received from the AMI Relay.

AMI Script

- **Added Class Methods**
 - » **Datamodel::processSync()**
Requery a datamodel, returns true on success.
 - » **FormSliderField::resetRange()**
If the min or max values have been set via amiscript, this resets to default config.

- » **FormRangeSliderField::resetRange()**
If the min or max values have been set via amiscript, this resets to default config.
- » **FormSelectField::resetOptions()**
If options have been manually set using amiscript, this resets to default values.
- » **FormMultiSelectField::resetOptions()**
If options have been manually set using amiscript, this resets to default values.
- » **FormField::setCssClass()**
Set css Class. Empty string for no css.
- » **FormField::resetCssClass()**
Reset css class to default (as configured in AMI editor).

- **Add new classes for amiscript**

- » DevTools
- » FilterPanel
- » TreePanel
- » HeatmapPanel
- » ChartPanel
- » ChartPanelAxis
- » ChartPanelPlot
- » ChartPanelLayer
- » SurfacePanel
- » SurfacePanelAxis
- » SurfacePanelLayer
- » ScrollPanel

- **Added Methods**

- » **strClassName(...)**
Get class name of the selected value.
- » **strCharAt(...)**
Get a single character from a string at a given position.
- » **percentDiff(...)**
Returns $\text{diff}(a,b) / \text{avg}(a,b)$.
- » **percentChange(...)**
Returns $(\text{new-old}) / \text{old}$.
- » **roundNearestDown(...)**
Round down to the closest multiple of bucketSize.
- » **roundNearestUp(...)**
Round up to the closest multiple of bucketSize.
- » **RoundNearest(...)**
Round to the closest multiple of bucketSize, ties round down.

SQL

- **Multiple tables**
USE EXECUTE can return multiple tables.
- **Added SHOW VARS**
Show all variables in scope.
- **Added SHOW PROCESSES**
Show running processes available in the AMIDB.
- **Added SHOW METHODS**
Show all static and member methods in scope.
- **Added __SESSIONID to ImdbSession**
Read-only Variable that stores the ID of the current session.
- **Added __USERNAME to ImdbSession**
Read-only variable of the username for the current database session.
- **Support SHOW ... LIMIT ...**
SHOW command is now consistent with SELECT command in supporting LIMIT clause.

GUI

- **Added Help to FormFields**
Labels of fields in a dashboard can have hover over text for providing additional help/information to the user.
- **Active tab**
When a tab is popped-in / redocked it becomes the active tab.
- **Tab Style tabPaddingStart - Number of**
- **Added Table Header Divider color via cell border color**
- **Newly styled desktop bar (colored logo, thin border)**
- **Enhanced menu styling (border styling)**
- **Choose Excel formatting from user settings**
Users can now choose personal preference of how Excel files are formatted when saved.

Developer Tools

- **Resource MANAGER**
When right clicking on a resource, conveniently get the relative and absolute URL.
- **Visualization panels**
Added setting to disable the clearing of Visualization Panels when underlying data models are actively running.
- **Dashboard search**
View/Search dashboard objects (relationships, datamodels, panels) from a tool.
- **Python errors**
Improved handling of errors in embedded Python script.
- **Version control**
Add support for version control (viewing history) for dashboard objects.
- **Better support for GIT Scm**
Modified vs Changed Files.
- **Panel styling**
When Styling Container Panels, you can choose to cascade the change to inner Panels.

For more information, email info@3Forge.com.