

A Complete Ecosystem: The 3forge Platform Introduces a Historical Database for Storing Trillions of Records Right out of the Box.

Our core mission has always been to create a platform that eliminates difficulties arising from using siloed tools in favor of a comprehensive enterprise solution. In this release cycle we are proud to introduce a component that connects most of the remaining dots.

AMI Historical Database is our latest creation, crafted for storing massive volumes of data (petabytes) on disk with record speed queries on demand. The benefits are multifold. You no longer have to resort to another system to store historical data and worry about integration. Getting up and running is quick and simple since it is integrated with our realtime database. Moreover, there are tools built to analyze, optimize and make the best use of it. And the best part is that it is supported out of the box.

The addition of the Historical Database is a great supplement to the 3forge AMI platform but there are many more features worth checking out below.

AMI Center/AMI DB:

- Introduce Historical Database
- Support encryption for .fast and .dat files by adding 2 new properties in the .properties file
 - » `ami.db.persist.encrypter.system.tables`
 - » `ami.db.persist.encrypter.system.table`
- Support join trigger condition with different data types
- Support for using custom java objects
- Limit print size of large query plans
- Added property to control batching messages to be sent from relay to center
 - » `ami.center.relay.batch.messages.max`
- Support INSERT and SELECT to return auto-generated keys

AMI Web:

- Datamodeler now contains AMI Script tab to control all the formulas from one place
- Add support for ssl encryption between the AMI Web and WebManager components added properties:
 - » `ami.webmanager.ssl.keystore.file`
 - » `ami.webmanager.ssl.keystore.contents.base64`
 - » `ami.webmanager.ssl.keystore.password`
- Improved Single Sign On - Continuous polling in the background to check token validity after user has signed into AMI
- Improved support for realtime recursive trees.
- Charts now support curved lines, add support for cubic bezier curves and quad bezier curves
- Support using custom java objects
- Support larger zoom level for 3D charts
- 2D chart auto fill and added support for radials
- Added `clearAllFilter` for table/tree
- AMIScript doc revision
- Better tree/table navigation
- Allow data model and subscribe multi-checkbox field in dm to show the full option name without having a horizontal scroll bar
- Added a + button for text area field

AMIScript:

- Added `TreePanelGrouping::getId()`
- Added `Tab::getId()`
- Added `Formula::getDRI()` and `Callback::getDRI()`
- Added `Layout::getAlias()`
- Added `DashboardResource::getDashboardResourceType()`
- Added `FormField::getLabelTooltip()`
- Added `FormField::setLabelTooltip(tooltip)`
- Added `exp(...)` for complex numbers

Adapters:

- Add support for Hibernate, you can now write Java code to create AMI DB tables
- JDBC Datasource Plugins now support ability to disable url encoding of username, password if necessary
- Rest Api Datasource Adapter supports returning HTTP Headers
- Update PdfBuilder plugin to use librepdf 1.3.30
- Update Sqlserver Datasource Adapter to use `mssql-jdbc` version 11.2.2.jre8
- Update Perforce Source Control Plugin to use `p4java` 2021.1.21638743
- Update Python Extern Plugin to use `jython-standalone` 2.7.1
- Update Sqlite Datasource Adapter to use `sqlite-jdbc` 3.32.3.3
- Update MongoDB Datasource Adapter to support MongoDB version 5.0, uses `mongodb-driver-sync` 4.5.1
- Support using "connect", "delete", "head", "options", "patch", "put", "trace" in REST API
- Improved Redis Adapter
- Updated Impala Datasource Adapter to use `impalajdbc41` 2.6.29.1035

Styling:

- Full set of options to style alert dialog
- Add `borderRadius` and `borderWidth` for form fields
- Add color coding to certain keywords

Misc:

- Better error message on joining multiple tables using commas
- Better error message on DB console timeout
- Better logging while loading datasource plugins
- Better logging for replication when center connects via `onAmiCenterConnect`
- Better error messages for RestApi Datasource Adapter
- Better logging for PdfBuilder to catch exceptions
- Better error on missing column
- Add defaults for log file rolling
- Realtime streaming api automatically goes into TTY mode if detected

If you have any questions about these new features or would like a demo, please email info@3forge.com.