

RELEASE NOTES

Welcome to a new Multi-session Experience

Users and third-party applications can now launch multiple dashboards simultaneously. By using layouts in the URL along with specific data elements, our micro dashboard concept optimizes dashboard real-estate, allowing user access to diverse dashboards at the same time. Control all open dashboards effortlessly with our new session management web UI.

AMI Center

- 17,509** Optimize code for data model focus after create
- 17,462** Return attributes as concurrent map, timeout of -1 does not expire
- 17,442** Added more tree panel AMI script functions
- 17,433** Add logout functionality when invalid role/group is present
- 17,331** Include integer values as group by options in the heatmap
- 17,231** If data model is visible on startup and set to run on visible then run
- 17,219** Add `AmiWebGuiAdapter_GuiTools`
- 17,127** Update the REST Datasource adapter to add a debug option
- 17,109** Wrap cloud, my layouts, absolute file open/save into 2 menus

AMI Relays

- 17,468** Added support for multiple sessions, `headless.txt`, `LAYOUT` url param, admin console
added `showPanels + showLogins + killHeadlessSession, amiscrypt session:getBrowserZoom`
Transient objects DRI now start with "%"
- 17,400** Faster amps json parser
- 17,393** Abstract the width/height scaling factors to getters/setters in `RootPortlet`
- 17,370** Added json unicode tests
- 17,140** Added `PortForwardSecure`
- 17,126** Added `ami.db.jdbc.protocol.version=1` or `2` to center
- 17,092** Added `amiscrypt Session::getDashboardStyleSet`

- 17,091** Allow `kx fh` to take more than 1 table for overriding column types

AMI Web

- 17,548** Created getter methods for heatmap, filter panel, and added a new chart legend AMI script class.
- 17,526** Don't try to show windows if root is not visible
- 17,493** Added `addHttpHandlerStrict`
- 17,479** When a new dm editor is opened, `datamodeler` will focus on it. The focus stays until user changes branch or cancels creation
- 17,477** Create interface for alert and confirm dialog, avoid redundant `onButton`
- 17,472** Added `ami.web.headless.file` default property
- 17,465** `HttpSession` attributes are `concurrentmap`
- 17,464** Debugger can be null
- 17,458** Added `getParamsAsString`
- 17,451** `BigDecimal` is a float
- 17,450** If whole number, set decimals to zero
- 17,435** Honor `PRIORITY` when starting up timers and triggers
- 17,420** Don't support `_` for class types in json by default
- 17,409** Changes to `GES`: millis to seconds, add entitlement type
- 17,399** Optimize amps fh, added performance logging
- 17,396** Update Amps adapter add reconnect logic and property `reconnect_interval_ms`
- 17,394** Disallow user to select past the end date on the start calendar if end date is selected

- 17,366** Improving logging for amps feed handler
- 17,362** If all entries are zero in a stack, result is empty
- 17,348** Scroll bar improvements v2
- 17,344** Scrollbar improvements:
 1. added a tiny square to the bottom right. Always visible and color is controlled via button color.
 2. Vertical and horizontal scroll bar will be kept apart by the tiny square regardless of show/hide arrows
- 17,340** Adding `amiscrypt` method to `TablePanel::snapToRow()`
- 17,333** Better handling of defaults in dividers and windows
- 17,324** Add default styles fro scroll bar, radius, and hide arrow
- 17,321** `Tab::onSelected()` callback: added `prevTab` and `curTab` as arguments.
- 17,319** Added `onClick(bool fromArrow)` callback for `Tab`. If user clicks on the arrow icon, `fromArrow` will be true, false otherwise.
- 17,309** Tab changes
 1. add selected tab bottom border
 2. color and size (px)
- 17,308** Improved the look and feel of the headless titlebar icon
- 17,301** Move the `loginResetLink` to its own class, nothing should have changed.
- 17,298** Update tabs support tabs drag and drop
- 17,283** Added three `Amiscrypt` methods `toBinary`, `toBase64`, `toText`, `toText(charset)`
- 17,280** For windows and Dividers, don't automatically apply changes (show a quick apply icon instead)

- 17,277** Auto assign a 2,3,... for existing field varnames
- 17,271** Added `AmiWebDataSession::putVariable(...)`
- 17,267** Change scroll bar style field to a percentage and set border radius proportional to scroll bar length
- 17,264** Change default data model name from "multi" to "datamodel"
- 17,263** Add support for:
1. Rounded corners on scrollbar handle
 2. Min length for scrollbar handle
 3. Hide Arrows (scroll track entire section)
- 17,259** Added cell flashing to tables
- 17,258** Added a window default location icon
- 17,251** Added `crontab(timer)` to datamodels
- 17,249** Update `utils.js` `draggable` to take into account empty spacing
- 17,244** Resolution scaling/adjustments for all windows
- 17,228** Don't hold onto return tables when running in a timer
- 17,227** Better default panel naming
- 17,209** Longer timeout when running unit tests
- 17,204** Added `htmlToText` for escaping text
- 17,198** Added `ChartPanelLayer::getSelected()` and `ChartPanel::onSelected` callback
- 17,196** `GetValue` should return a deep copy
- 17,185** Added `onAmiJsCallbackInTitlebar` to layout callbacks (can put callbacks in title bar)
- 17,178** Don't throw an exception if a panel is missing
- 17,176** Added backward compatibility for `tab_entry` references in `linkedVariables`
- 17,172** Handle case where just one user preference panel is being imported
- 17,158** Clicking the data model button will show a data modeler with the corresponding node/cell selected
- 17,125** Improve KX feed handler config format. New configuration is `ami.relay.fh.kx1.props`
- 17,123** Optimize `select` clause building schema
- 17,116** Updated maven dependencies for `amiexcel` plugin
- 17,115** Optimize code for removing table filters
- 17,112** When putting axis into AUTO mode, set all options to AUTO
- 17,107** Added `yyyy/MM/dd` and `dd/MM/yyyy`
- 17,098** When user properties are set in entitlements (like in `access.txt`) then changing them in `My Settings` has no effect. So, disable the inputs
- 17,095** Added `getHourOfDay[start|end]` and `isPm[startEnd]` to `amiscrypt` for `TimeField` and `TimeChooserField`
- 17,088** Improved error handling for the KX feed handler and allowed casting based on a new property: `ami.relay.fh.kx1.props.columnTypesOverride=colName=kxType`
- 17,086** Add logging to debug variables portlet
- 17,078** Added `FormColorGradientPickerField`
- ### Miscellaneous changes
- 17,525** Force refresh of forms on initJs (fixes blank buttons panel in confirm dialog on initial dashboard load)
- 17,521** Only apply properties if they are not manually set
- 17,466** Redirect tab supports non-string returning methods
- 17,463** Removed divider settings from style options
- 17,452** For real-time wizard, if whole number set decimals to zero
- 17,445** Blender now gets schema-mapped result from underlying datamodel(s)
- 17,429** Added convenience getters
- 17,421** Added json tests for control chars (ex `\n`)
- 17,373** Handle scenario when `.bash / .profile` changes working directory
- 17,296** Changed default location icon
- 17,294** Nonbackwards compatible change: AMI no longer assumes that the default constructor is visible. Force `AmiScriptAccessible` annotation for constructor too.
- 17,293** Handle primitives in custom `amiscrypt` classes
- 17,287** Update `GuiTools`: methods: `__GUITOOLS.fetch(String url,Map option,long timeout)`, callbacks: `onInit(Map metadata)`, `onError(Map metadata)`, and `onResponse(long id, Map request, Map response, String mimeType, Bytes responseBytes)` and improve `SimpleEventReaper`
- 17,275** Still send `doubleclick` callback on divider even if locked
- 17,250** In the timezone dropdown, subsort by zone id
- 17,247** Mark `setFilter` in `TablePanel` as deprecated; add 1 more `setFilter` to `tablePanelColumn`; add `getIsMaxValueInclusive` and `getIsMinValueInclusive`
- 17,240** Support new crontab syntax in `ami` timers
- 17,211** Handle return clause with deferred statements in `amiscrypt` triggers
- 17,210** Now supports period in column names, specifically ``hello.world`` is different from `hello.world`
- 17,205** Column headers with html in them are cleaned up for excel export
- 17,187** When inserting/updating, just ignore reversed columns
- 17,171** Added ability for User to arrange tabs
- 17,135** REST request method needs to be upper-cased
- 17,131** For java 17, dont try to use `concurrentmarkandsweep gc`
- 17,124** Clear filter and clear all filters should be disabled if there is no filter on the current column. For tree and table.
- 17,122** User-created alerts now have a Close All button.
- 17,120** Updated dependencies for postgres datasource adapter
- 17,117** Updated Maven dependencies for Oracle Datasource Plugin
- 17,108** RT Feed does not use SYSTEM, instead RTUSER so that streaming data invoking triggers runs as user (not system)
- 17,066** Support `amiscryptPanel::addPanel(...)` for non-transient panels
- 17,056** Better delay logic for bruteforce password attack
- 17,046** Added calendar styling; added a helper function to check color; calendar now look more compact
- 17,043** `CREATE METHOD` supports multiple methods declared at once, necessary to allow forward references. `SHOW METHOD` for custom methods shows body content
- 17,040** Gracefully handle stack overflow in debugger
- 17,035** Handle xss in heatmap tooltips, windows menu, custom menus
- 17,029** Stop xss in column headers
- 17,026** Added `ami.web.allow.javascript.embedded.in.html=false` to prevent xss
- 17,025** Added `seeksegmenttime` to xss event handler list
- 17,024** Added `get/setStrictEscape`
- 17,021** Update AMI KX Feedhandler to support Dates that are Strings ex 2022-02-22
- 17,004** Now supports color customizations for loading bar (e.g. when dm takes > 2 seconds to test)

- 16,995 Added `hostnameEnforced`
- 16,993 Strict check for enable last N days for calendar in `date/dateRange` field; better error message for invalid input; `dateTime` field now has same calendar options
- 16,990 Autocomplete `amiscript` case is now `INsensitive`
- 16,988 Now allows `date` and `dateRange` field to have go back N days and disable future dates options
- 16,987 Stop sending emails when create account failed
- 16,986 Added `resetSeqNum`
- 16,984 `Seqnum` should be a long
- 16,983 `Ami.session.check.period.seconds` should be `ami.session.check.db.period.seconds`
- 16,979 Alter/rename/drop of realtime table column needs to rebroadcast entire table
- 16,978 `ColumnarRow entrySet` is in order
- 16,977 Stop suppressing key events
- 16,976 Support trigger calling HDB tables
- 16,970 Ensure `menubarPosition` is a string when layout gets build
- 16,968 Add support for SLO single logout for OAuth and adding properties: `oauth.logout.redirect.uri` `oauth.logout.endpoint` `oauth.single.logout.enabled`
- 16,967 Add support for `jsonbuilder` adding float lists
- 16,966 Add support for non json messages
- 16,963 Update SSO plugin to be able to handle logout request
- 16,961 Update OAuth Plugin add support for roles add properties `oauth.ami.roles.field` `oauth.ami.default.role.field` `oauth.ami.roles.enabled` and role subproperties: `oauth.ami.role.[attribute]= ...`
- 16,960 Add to `oauth` plugin support for roles
- 16,959 In-use callback now show up first in the callback editor
- 16,958 Add `quoteOrNull` or `doubleQuoteOrNull` for logging purposes to identify null vs empty string
- 16,957 Ensure consistency between default alert styling and confirm styling
- 16,944 Added `USE maxOptimizeSeconds` to historical tables. Better logic on combining partitions. Fixed index `isOptimizeid` flag
- 16,942 Improved debuggability for the KX feed handler
- 16,940 Supports java 17, Added `AMI_TERMINATE_FILE` and `CLASSPATH` env vars that `start.sh` (and `stop.sh`) take
- 16,935 Added `f1.license.warning.days` to defaults
- 16,934 If dialog does not have close button, don't allow escape key either.
- 16,922 New callback for `finsemble`, get result from intent resolution if available
- 16,912 When menu bar is at bottom, anchor menu items to top
- 16,909 Support CTRL+D when title is 'corner stile' but expanded
- 16,908 If dialog is set to close-on-click-outside, then don't show the 'not-allowed' icon
- 16,907 Add missing attributes for usage logger
- 16,906 Add support for KX Feed handler types J F array of longs and array of doubles
- 16,901 Added Dashboard Settings → Menubar location (use titles icon instead of title bar)
- 16,900 Added Overlay concept to `GridPortlet`
- 16,898 If not `ISDEV=true`, Suppress "This file is an ami export and may contain multiple layouts. When saving, you should choose a new location" message
- 16,897 Added `/logout` url endpoint which forces logout of session
- 16,896 Do not reduce break/continue to `const`
- 16,895 Do not reduce flow control
- 16,886 Update logging on Rest request
- 16,880 Add `onLogin` and `onLogout` to `AmiWebDataFilter`
- 16,879 Store id token in `OAuthSSOSession`
- 16,872 Update `datamodeler` description
- 16,867 If expired row's `onDelete` trigger returns false, clear expiry time
- 16,858 Update `AmiWebEntitlementsPlugin` improve interface
- 16,857 Make sure datatype is set before compiling
- 16,853 Relationship DM Targets are no longer wrapped in `${Target_...}`
- 16,850 Better debug info (includes portlet x & y)
- 16,849 Improved layout of dashboard
- 16,847 Added `USE rowVar="..."` to `amiscript` trigger
- 16,846 Updated `finsemble` adapter
Added support for `fdc3` `Amiscript` methods: `getOrCreateChannel`, `broadcast`, `broadcastChannel`, `addContextListener`, `addContextListenerChannel`,
Callbacks: `onContext`, `onGetChannel`, `onInitFdc3`
- 16,837 When target table is altered redo subscription
- 16,834 `String.chars()` and `splitLines()` should return a list instead
- 16,832 Changed `getStatus()` to use more constant type values, improved help too
- 16,828 Update `setLabelToolTip` is now a override field
- 16,826 Improved `datamodeler` descriptions and icons
- 16,823 Change icon label from "dev" to "editor"
- 16,816 Added consts to `autolookup` for `amiscript` stuff
- 16,815 Session and layout objects can be now considered consts
- 16,797 Added new feature ability to change max warnings and info messages in the `AmiWebWarningDialog`
- 16,794 Update Feed Handler Plugins to support renaming the target `AmiTableName` for `feed/topic/subscription` added property: `<feedId>.props.amiTableMap=srcTable=AmiTable,...`
- 16,784 Use preferred way to get session id
- 16,783 Added warning on invalid formulas when adding/editing columns
- 16,772 Now propagates user key events in menu portlets up to owner panel
- 16,771 Compile associated `amiscript` when programatically importing a dms
- 16,762 Callback command ID and App name are deprecated for table
- 16,754 `GetValue` should not strip off backticks
- 16,753 `asicMethodFactory::getMethodFactory (String name, Class[] args)` should visit inner method factories too
- 16,752 Changed to string of member methods to include class name, and constructor now uses "new ..." syntax
- 16,751 Added tests for `formatNumberCompact(...)`
- 16,749 When linking to child layout panel, need to compile `amiscript`
- 16,747 Added `formatNumberCompact(...)` to `AmiUtils`
- 16,745 Added `amiscript` `formatNumberCompact(...)`
- 16,744 Added `formatNumberCompact(...)`
- 16,741 Updated `OAuth` plugin and added `oauth.session.check.period`
- 16,738 Add better error handling if `refresh_token` doesn't exist
- 16,729 Top menu bar arrangement: more space to status icon and layout name, less space to menus (File, Dashboard....)
- 16,728 Add `refreshToken` endpoint
- 16,722 Changed scale origin to center
- 16,712 Added optional check for duplicate registration of methods

- 16,705 Re-added `amiscript`
`ChartPanelLayer::getStyle(String)`
- 16,698 Added additional logging to real-time tree, log exception
- 16,697 Update add logging to realtime tree, log exception
- 16,681 Added way to create custom alert dialogs
- 16,678 Make get columns count thread safe
- 16,675 Hdb support inner query, ex: `select * from HORDERS where sym in (select * from symbols)`
- 16,671 HDB support windowing to first row on unaggregated column, ex: `select count(*),TradeDate from HORDERS;` (note TradeDate is not in an aggregate)
- 16,666 Added fast OR clause in text matcher, ex: `ABC|123|DEF|BLAH`
- 16,665 Removed `getSSOPlugin`
- 16,663 Use index for order by, ex: `select * from HORDERS order by TradeDate,Symbol limit 10`
- 16,662 `COMPARATOR` and `REVERSE_COMPARATOR` should be of generic type `<Comparable>`
- 16,661 Better handling of null, ex `a==1` or `a==2` collapse to a in (1,2)
- 16,660 Support "or" for collapsing to in clause (not just | |)
- 16,658 Top menu bar rearrangement
- 16,651 Added sanity check for `null`
- 16,646 Performance improvements for HDB query planner
- 16,645 Added `planListener` logging
- 16,642 Support fast agg functions in AMIDB, ex: `select max(TradeDate) from ORDERS`
- 16,641 HDB: Support `~`, `!=`, etc in indexes
- 16,630 Better short circuit with limit in hdb
- 16,629 Added `Partition::isWriteLockedByCurrentThread()`
- 16,628 Different switch code for `~` vs `==`
- 16,624 Still use optimized `countOnly` routine if there is a limit clause
- 16,618 Support datamodel wizard preview for hdb tables
- 16,612 Moved each hdb table to its own f1 partition
- 16,611 Added `getMaxOpenCount()`
- 16,607 Added support for `selectRowsRange` to `TablePanel`
- 16,593 Added `WHERE` and `wheres` to datamodel `onComplete` callback
- 16,592 Don't allow HDB tables with invalid mode for a given type, ex: `INT VARSIZE3`.
`columnTypesOverride.<tableName>=<col1>=<overrideType>,...`