BASIS Products 19.0 Up Close

This document contains a comprehensive list of all of the new features in version 19.0 for BBj®, Barista® Application Framework, and AddonSoftware® by Barista.

BBj 19.0 FEATURES

Language/Interpreter
- The new CHROMIUM_HTML offers faster performance and more functionality than the JAVAFX_HTMLVIEW and doesn't require the installation of additional libraries when running BBj under Java 11

- Adds new BBjHtmlView methods to enable the developer to query the selected client implementation

- Adds the ability to undock a docked child window

- Adds !COMPAT ALLOW_DECIMAL_COMMA=TRUE to accept "," (in addition to the standard ".") as a valid decimal separator for numeric input

- Deprecates the functions getVisibleRowCount() and getVisibleColumnCount() due to confusion over their use, and adds four new functions to replace them. The new functions getVisibleRows() and getVisibleColumns() return the number of rows/columns currently visible in the grid, and getMaxVisibleRows() and getMaxVisibleColumns() return the number of rows/columns that will fit inside the grid's current viewing area.

- Add the optional ability to have the grid enter edit mode as soon as the user begins typing in a cell

- Adds a grid method to display the calendar on an inputD style cell

- A new Chromium-based WYSIWYG editor (BBjHtmlEdit control) is available with superior HTML5, CSS, and JavaScript performance and eliminates the need for JavaFX or OpenJFX

- Added an optional third parameter to the CVS() function to specify the character to use in place of space to allow for stripping leading and trailing 00 and similar functions

System Administration

- Added filtering in various EM panels to make it easier to locate and use the wealth of system administration information.

- Added a new XCALL server built into BBjServices, making it even easier to configure in Enterprise Manager and delivers more robust functionality.

Building Blocks and Utilities

- Adds methods to the BBXImage utility to crop, return a subimage, and add color overlays to an image

- Adds the ability to access a DashboardWidget's WidgetControl from any DashboardWidgetEvent

- Improved the flexibility of dashboard widgets with the ability to create your own custom popup menus and right-click controls.

- Adds the ability to determine if a dashboard widget is an original or clone (popped out) using the Dashboardwidget::getClonedState() method

- The Dashboard Utility now by default continues program execution when a widget has a problem querying the data, displaying the problem description in the widget where possible instead of just halting with an error.

- Adds the ability to control whether a dashboard program should stop execution after encountering an error filling a widget via the FillErrorAction field variable on a Dashboard, DashboardCategory, or individual widget

- Adds the ability to set a custom image or text to display over a widget that experiences an error via the setFillErrorDisplayImage() and setFillErrorDisplayText() methods

- Adds a JasperViewerWidget constructor that takes a report file, connection string, and report parameters to create an auto-fillable/refreshable JasperViewerWidget

- Dashboard widgets now display JasperReports without the toolbar improving their visibility. The toolbar is still offered with a right-click.

- Adds the ability to enable formatted data item labels for category-based ChartWidgets

- Enhances ChartWidgets by offering more control over label aspects such as formatting, positioning, font styles, and markers, resulting in nicer-looking, more informative charts to facilitate better decision making

Development Tools
- Added efficiencies to WindowBuilder such as the ability to change the same property across multiple controls simultaneously.

BARISTA 19.0 FEATURES

Feature Improvements
- Adds pre-filling of the element assignment frame for duplicate columns during the import to the Barista DD

- Maintenance and detail grids:
  - Adds the "Before Detail Window" (BDTW) and "After Detail Window" (ADTW) callpoints
  - Allows for more dynamic column attribute control in the maintenance grid "Before Form Creation" (BFMC) and "Before Detail Grid Creation" (BDGC) callpoints
  - Sequence Counter: Adds complete handling of sequence counter columns in maintenance and detail grids, including the option for zero-based numbering. Allows starting a linked form with a specific sequence counter.

- Adds a new public called "bac_choose_slider.bbj" that calls up a dialog with a slider control and returns the user's slider value choice

- Allows "Before Input" (BINP) callpoint code to set the input prompt string, field help and other column attributes dynamically

- Adds resolution of global variables (STBLs) and other columns in the Drill-Down Filter Definition

- Carries over numeric masking from the application when exporting to a spreadsheet file (.xls)

- Adds "Before Maint. Table Open" (BTBL) callpoint to the maintenance grid

- Adds ability to select and copy the Barista Navigation Map details to the clipboard, for example, to create a keyboard reference card

- A picture really is worth 1,000 words. This new capability captures and emails screen images for improved troubleshooting. It is particularly useful with its integration into the error reporting system. IT administrators will love it!
  - Image Viewer: Adds the ability to quickly view images, such as screen captures

- Enhances color support and grid striping, and a 'System Display Colors' dialog to view and maintain default color settings

- Role Permissions:
  - What users can view, edit, or delete is critical to any system. A new selectable permissions feature for administrators eases the complexity of managing a user's permissions.
  - User and Roles: Honors effective and expiration dates on users and roles during log-in

- Reporting: Improves report formatting capabilities, including left-aligned masked numericals with decimal alignment

- Data Dictionary: Adds settings for OEM Date types, including Timestamp and Calendar Week, Y2K_WINDOW value and 'Character As Binary' flag to Element Types. Adds the 'Ordered Numeric' flag to the key segment definition.

- Import To Barista: Builds a list of duplicate column names with different types or lengths automatically. Set the validation table and description column, if possible. Makes a "best guess" at building foreign keys when importing an entire BASIS legacy data dictionary.

- Installation Manager: Initializes the Firm 01 record to its originally deployed state and removes any other firms when creating a new Barista instance

- Callpoints: Adds **callpoint!.getEventOptionStr()** method to retrieve the affected table alias, thus allowing alias-based differentiation in callpoints such as Before/After Detail Window (BDTW/ADTW)

- Configuration: Adds the basis\plugins directory to the PREFIX. Adds the standard Y2KWINDOW=30 global. Adds a **+SKIP_EXPORT_REVERSE_XREF=NO** global to steer whether reverse cross-references (foreign keys from other tables) should be built when exporting tables to the BASIS DD. Consolidates the 'Callpoint Method Additions' files pointed to by the +FILE_ADD global from their language-specific locations to just one under 'sys/config/barista.cpt'.

- Document Processing
  - History: Enhancements include being able to view source documents, when available, and improvements in managing the processing queue.
  - Provides additional information to entries in the document processing queue to aid in problem resolution

- Retrieves form attributes in real-time from the Barista tables, thus removing the need for the over 700 form definition files in Barista and AddonSoftware. Consolidates translation and handling of form attributes. Eases attribute information retrieval via SQL for use in other interfaces, like RESTful web services.

ADDONSOFTWARE 19.0 FEATURES

Solution-wide
- Enhanced the Install Wizard to create a new installation with either no data or with default parameters and codes.

- Enhanced the Setup New Firm utility to create a new firm with either no data or with default parameters and codes.

- Enhanced the Copy Data From Firm To Firm utility to allow excluding transaction files.

- Enhanced queries in Expresso to add hyperlinked ".." column so users can launch Barista's comment dialog window when querying a table that contains a memo_1024 comment field

- Allows for large reports to be virtualized (cached to disk) to reduce memory allocation when filling a report with data

Accounting

- AP Payment Selection - The user interface for Payment Selection Entry has been enhanced for more intuitive operation in both "standard" and "Payment Authorization" modes. Other enhancements include a new invoice number filter, the ability to undo an invoice review or approval, a file chooser and image display for the check approver's signature file, and the option to save scanned invoices to the Barista Document Archive.

- AR Credit Card Processing - Receivables processing receives improved efficiencies with an integrated credit card feature. Accept credit card payments directly into cash receipts processing without relying on and paying for 3rd party utilities.

- Added "Discount Date (S)" option to the "Age By" list button for the AP Cash Requirements Report and the AP Aging Report

- Added a company fax number to AP and AR Report Parameters. Company's fax number is printed next to the logo on customer Statements and AR Simple Invoices.

- Added an option the Monthly Check Report and the Disbursement Journal to allow printing the reports without breaking on AP Type

- Streamlined the payables processing with the option to pay your vendors electronically. This new feature adds new payables efficiencies while maintaining security and reporting needed in today's business environment.

- Added country ID to vendors' purchasing address table as well as AP checks

- Added company fax number to AP and AR Report Parameters. Company's fax number printed next to the logo on customer Statements and AR Simple Invoices.

- Added the option to the Monthly Check Report and the Disbursement Journal to allow printing the reports without breaking on AP Type

- Enhanced the 1099 export to allow the user to choose the output directory, and added the current 1099 year to the filename

- Added View Images button to AP Invoice History Inquiry form to view scanned/saved vendor invoices

- Added AP query for Historical Invoices, with transaction detail drilldown, to Vendor maintenance and Expresso search

Distribution

- Duplicate historical receipt in Purchase Order Entry - Users can now create a new Purchase Order from within Purchase Order Entry by duplicating a historical receipt

- Shipping Processing - A new interface to shipment tracking software enables your team to know the location and status of outbound packages. Tracking numbers, weight, and freight costs are automatically maintained with 3rd party interfaces or can be manually entered as a part of Order Entry to assure that accurate information is available when the question of 'Where is my shipment?" is asked.

- Inventory - Custom user-defined masks are now allowed for inventory Item IDs, the same as for Customer IDs and Vendor IDs.

- The company's fax number printed next to the logo on OP Picking Lists, Invoices, and Historical Invoices, and on PO Purchase Orders and Requisitions

- Added vendor's country ID and purchasing address country ID to Purchase Orders and Requisitions, as well as PO Receipt and Invoice Entry

- The Cash Sale form now contains a "card last 4" field for use in credit card sales, and no longer permits entry of a full credit card number. The Sales Register and OP Invoice print only the new card last 4 field. In addition, the v19 Conversion Utility now scrubs any credit card numbers coming from a V6 or pre-v19 Barista/Addon database, preserving only the last 4 digits.

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