

AreaList Pro

Version 10.0.1

Release notes

May 11, 2018

Published by e-Node worldwide
www.e-node.net/alp

System requirements

AreaList Pro version 10 is compatible with 4D v16 and above, for macOS and Windows, in both 32-bit and 64-bit modes. It is reported, but not certified, to run with 4D v15 in 32-bit mode.

This version also supports v8 API and v9 API: your existing code should not require any changes.

Version 10.0.1 – New features

- Added property to ignore mouse wheel
 - ALP Area IgnoreMouseWheel, value "eimw", type int, read/write, default 0, min 0, max 3
 - used as bitfield:
 - bit 0 (value 1) - ignore horizontal scrolling with mouse wheel
 - bit 1 (value 2) - ignore vertical scrolling with mouse wheel
- Added property for entry focus hiding
 - ALP Area HideEntryFocus, category Entry, value "Efoc", type int, default 0, min 0, max 3
 - used as bitfield:
 - bit 0 (value 1) - don't draw focus rectangle for text entry (text, int, real, date, time)
 - bit 1 (value 2) - don't draw focus rectangle for other entry types (checkbox, radio, picture)

Version 10.0.1 – New constants

- Added constants related to some new v10 features (break processing, alternate header, transposition):
 - ALP Area ClickedVisualRow ("evcR") - when using break processing, the second visual row is very likely the first data row (break header in first row)

- ALP Area ClickedRowNum (“evCr”) - the real row number (differs from ALP Area ClickedRow only when using ALP Area Transposed)
- ALP Area ClickedColNum (“evCc”) - the real column number (differs from ALP Area ClickedCol only when using ALP Area Transposed)
- ALP Area RollOverVisualRow (“evlR”) - similar to the previous three, but for Mouse Over
- ALP Area RollOverRowNum (“evLr”)
- ALP Area RollOverColNum (“evLc”)
- ALP Area EntryCellRow (“ecCR”) - visual row number (can differ when using break processing/transposition)
- ALP Area EntryCellColumn (“ecCC”) - visual cell number (can differ when using transposition)
- ALP Area AltHdrRowsInGrid (“rowA”) - number of rows in alternate header grid
- ALP Area AltHdrClear (“AlHC”) - clear the alternate header grid & cells
- ALP Object AltHdrGrid (“GRIA”) - alternate header grid (see grid manipulation) usable with *AL_Get/SetObjectsX*
- Added new selectors/constants for direct access to break cells (in ALP Break Properties theme):
 - ALP BreakCell Source (“src”) - data source for the cell (default is inherited from the data grid)
 - ALP BreakCell Value (“valu”) - alias to ALP Cell Value
 - ALP BreakCell ColSpan (“gcsp”) - colSpan of the break cell grid
 - ALP BreakCell RowSpan (“grsp”) - rowSpan of the break cell grid
- Added missing constants:
 - ALP Break LineShowColumnDivider (“PLsd”)
 - ALP Break LineThickness (“PLlt”)
 - ALP Break LineColor (“PLlc”)
 - ALP Break Clear (“clr”)

Version 10.0.1 – Changes

- Changed column lock divider drawing to be only one point wide
- SQL columns use column name, not original column name (should use alias set by "AS" in the query)
- Changed behavior for breaks
 - when accessing cell lines, cell number is expected, not column number
 - all other places (cell formatting) expect cell numbers instead of column numbers when used with alternate header or break rows

- When setting break property, area reference can be -2 or -3 (all AreaList Pro areas, all AreaList Pro areas in current process) and break level can be -2 (all existing break levels)
 - example: to clear all break footers
AL_SetBreakLongProperty (\$area;0;-2;0;ALP Break Clear)
- Column separators are drawn after a row is drawn, not after the whole area is drawn
 - break row column separators should work as expected
 - added new bit to ALP Area ShowColDividers: setting bit 3 (value 8) to 1 will not draw the column dividers in empty area (below data rows)
 - changed maximum to 15
- Added missing PrintList Pro-inspired break properties into XML generation
- Modified *AL_ModifyArrays* to be usable in fields mode (for row/cell options move)
 - ➔ See the [documentation](#) for a detailed explanation.
 - ➔ Clicking on a calculated column header no longer displays the 4D sort editor
- Tooltip is created when text or cell changes, not on every mouse move (should not flicker)
- Added support for ALP Column CallbackFnc in break processing (only ALP Column Callback was supported for break data/values)

Version 10.0.1 – Fixes

- Fixed hierarchy support, especially after a sort
- Notes:
 - "classic" hierarchy mode expects hierarchy info in order of the data rows - one row, one hierarchy entry
 - transposed/breaks mode must support visual rows, which do not match the data rows -> hierarchy info in visual order of the data rows + break rows (columns in transposed mode)
 - "visual order", because ALP Area DontSortArrays (using sort index array) is still implied/used when using hierarchy with arrays.
- During entry, data row is not drawn selected even in single-row selection mode
- Fixed column lock divider drawing when lock is not in effect (no divider on the left side of first column)
- Fixed column divider drawing - ALP Area ShowColDivider properly honored
- Fixed picture drawing on Windows when ALP Area WindowsText = 1
- Fixed old bug (from v9.2) in right cell icon drawing (left/right cell icon ID is now 32-bit integer)
- Fixed possible crash when re-initializing “default” area 0
- Fixed re-initialization of area when “default” area 0 is defined (not clearing some properties)
- Fixed many possible crashes when reconfiguring an area displaying breaks

- Fixed bugs related to ALP Area Transposed = 1
 - note: hierarchy and selected rows use visual rows - row selection is always horizontal
 - when using transposed view, you can use negative number as column number to access properties of the virtual columns
- Fixed row number getter when using breaks
- Fixed column dividers drawing when area is scrolled and a column is locked
- Fixed Date popup on Mac when used with 32-bit 4D - month/year popup should work (not to be displayed behind the date popup window)
- Fixed drawing of column dividers when area is wide enough to show all columns
- Fixed possible issues with setting multiple rows/columns/cells at once (especially when using text value)
- Fixed break-processing related problems
 - breaks are deleted when columns are added
 - break row/cell options are not cleared when breaks are deleted
 - when processing breaks in fields mode, the break column(s) are not damaged anymore (4D runtime error when fetching the data)
- Fixed use of ALP Area NamedSelection
- Fixed getter/setter for ALP Row UseEllipsis (was missing)
- Fixed use of ALP Column CallbackFnc when using break processing (row out of range)
- Sort works when using: arrays, hierarchy and break processing
- Fixed footer handling when break processing is used and there is TOTAL (break footer for level 0 - displayed in the footer)
- Fixed break row handling - break rows do not change the column widths (it changed them sometimes having effect of “jumping” data on screen, e.g. after a click in column resize)
- Fixed crash when changing number of rows and using break processing and hierarchy (e.g. ALP Area AutoHierarchy = 1)
- Fixed crash when getting ALP Column CallbackFnc
- Added missing setter for ALP Column Ellipsis
- Fixed crash with ALP Column CallbackFnc
- Fixed parsing of format for icon numbers when ALP Column DisplayControl = 4 (draw pictures)
- Fixed row height computation for GDIPlus (running on Windows, ALP Area WindowsText = 0) - visible e.g. with Arial 13
- Fixed pictures in sort dialog (added missing sort direction triangles)
- Fixed a possible crash on quit (Windows)
- Fixed a bug on Windows getting pictures from system (native appearance: header, checkbox) - sometimes it could create empty picture

- Fixed a bug on Windows related to HDC manipulation when creating pictures from system
- Changed Aqua8 pictures (was using 10.6 Aqua – darker blue)
- Fixed a drawing issue when there are many rows hidden (e.g. collapsed hierarchy nodes)

Version 10.0 – Direct data display from a MySQL database

Set a MySQL server as data source and display its data in AreaList Pro v10, with hundreds of formatting options available.

Version 10.0 – Global settings and templates

- Global area settings:
 - Area = 0 : apply to all areas to be created (defining an area “template”)
 - Area = -2 : apply to all existing areas, but not to areas to be created
 - Area = -3 : apply to all existing areas in current process only
- Global column settings:
 - Column = 0 : apply to all columns to be created (defining a column “template”) in either a specific area, or in area 0, -2 or -3 as above
 - Column = -2 : apply to all existing columns in either a specific area, or in area -2 or -3 as above for existing areas
- Global row settings:
 - Row = -2 : apply to all rows in either a specific area, or in area -2 or -3 as above for existing areas

Version 10.0 – New commands

- Move a column (*AL_MoveColumn*)
- Duplicate a column (*AL_DuplicateColumn*)

Version 10.0 – Grouping columns and headers

- Group columns together
- Dragging a group of columns
- Column group header (above the column individual headers or replacing them) – row and cell properties can be used with Row = -3
- Hierarchy row merged into one cell that goes across several columns

Version 10.0 – Area display features

- Zooming an entire area (smaller or larger display, factor 0.1 to 5)

- Display Transposed (rotate rows ↔ columns) – This allows “palette” style interface, with different data types among “rows” (note: “palette” style was already possible in v9 using “grid” mode)
- Multi-level break processing (ala PrintList Pro) including in hierarchical lists
- Many new “appearance” settings: system, automatic, custom pictures or 10 different OSX/Windows standard themes
- Show/hide vertical scrollbar

Version 10.0 – Column features

- Minimum column width for any column(s)
- New properties to enable/disable each column's sorting, dragging or resizing
- “Use ellipsis” settable for headers, specific columns, individual rows, footers, and even individual cells
- Popup entry type is now a column property: 0 = default (depends on data type), 1 = date, 2 = time
- Limiting entry string length (length limit is now a column property)
- Define a formula instead of a callback for a calculated column

Version 10.0 – Other cool features

- CSV format in Copy / Drag from an area
- Named selections as sources
- Entry placeholder support
- ALP Cell Format and ALP Cell Flags (formatting at cell level)
- ALP Row Flags (formatting at row level: font, color, alignment, spacing, etc.)
- Show a longint value as picture in Field or Array Display (e.g. “star rating” display)
- Access row and cell properties for header and footer:
 - Header: row = 0
 - Footer: row = -1

Version 10.0 – Miscellaneous

- Hide row dividers in empty areas (ALP Area ShowRowDividers is now 3-state)
- Custom picture above vertical scrollbar (old AL_SetHeaderOptions) including callback on mouse down or up
- Override row/cell bottom row divider color (set a specific color for the bottom divider of a given row or cell)

- ALP Column EntryAllowReturn: allow/disallow return in specific columns regardless of the area settings (ALP Area EntryAllowReturn)
- Single line headers in “grid” mode (i.e. several lines per row, ALP Area AltHdrRowsInGrid>1)
- Single line footers in “grid” mode (i.e. several lines per row, ALP Area FtrRowsInGrid>1)
- Drag and move a column (physically reorder the column) even when not running in compatibility mode
- New API replacement of *AL_SetInterface*: appearance + sort indicator properties
- ALP Object RowSelection optimized (using LONGINT ARRAY FROM SELECTION)

Upgrading from previous versions

Upgrades from versions 9.x (single user or server) are available at 60 €.

Upgrades from versions 8.x (single user or server) are available at 80 €.

License extensions to SuperReport Pro are available at 60 €.

Contact

Upgrade requests, sales and license information: orders@e-node.net

Technical issues, discussions and requests: forums.e-node.net

AreaList Pro web page: www.e-node.net/alp