



Information Engineering Technology

Rapide Release Notes



Release 4.0.1

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New Functionality

The following features have been added.

Option to right-trim varying length entry fields

New `rapide.properties` token `RTRIM_VARLEN_FIELDS=True` causes any entry fields for Varying Length text fields to be trimmed on their way into the Gen View. This gives similar behaviour to standard Gen GUI applications.

Default behaviour in Rapide remains i.e. retain any trailing spaces for such Varying Length fields (otherwise there is no way to enter a trailing space into a field).

Http Request properties exposed in Rapide Function Library

Exposed Http Request properties through new RFL properties including `reqServerName`, `reqServerPort`, `reqURL`, `reqScheme`, `reqServletPath`.

Added RFL method `listboxShowMenu`

Cause a listbox's context menu to appear, the same as if the user had right-clicked the header of the listbox – new RFL method `listboxShowMenu`.

Show/Hide Password Field Value

Password entry fields may now have a show/hide icon displayed, so the user can click on this to show or hide the actual value of the password visibly, similar to functionality provided by many mobile devices. To enable this behaviour, create a new `rapide.properties` token `PASSWORD_FIELDS_VIEWABLE=True`. Default is False.

Honour lowercase characters in numeric edit patterns

A new `rapide.properties` token (`EDPAT_MIXED_CASE=True`) can be set which will allow lowercase characters to be retained in a numeric edit pattern. For example, “ZZZ9.9mph” would normally be displayed with uppercase “MPH” as that is normal Gen behaviour, but with this you get the option to have “mph” displayed in the field.

Disabled fields use `setEditable` not `setEnabled`

Added a new `rapide.properties` token `DISABLED_FIELDS_USE_EDITABLE=True` (default is False, same behaviour as previous). This causes all disabled fields (not read-only) to use the `setEditable()` SWT method instead of `setEnabled()`. This means that the text data in the field is still selectable and scrollable.

Click on Grid image cell not supported

Click event on Image Cells in Grid controls was not supported.

RFL method to merge 2 BLOB images

A new RFL method is provided – `overlayBLOBImages` - to merge one BLOB view image into the centre of another BLOB view image.

Option for Colour Selector widgets to have no on/off checkbox

New `rapide.properties` option (`COLOUR_PICKER_NEVER_UNSETTABLE=True`) to specify that all Colour Selector widgets should NOT include the null (on/off) checkbox - always have colour if no checkbox.

Fixes

The following issues have been fixed.

New window may be placed off-screen

A new window that has never been opened on a particular client before, may be positioned off the visible screen. This is most common where the client running the application has a smaller display than was used in the UI Designer, so is placed off the top of the visible display. Affects DESKTOP and STUDIO/WORKBENCH applications.

Return from client flow leaves old Import data beyond Group View end

When returning from a client-to-client dialog flow, repeating group view data beyond the LAST row is not fully re-initialised, so if you then set Import Subscript beyond the LAST, it will see previous data. This is of course poor coding to do this, but nevertheless, the data should have been blanked out during the return from flow.

CSS_AUTO_APPEND_GENNAME not applying when a widget has a Custom Theme

CSS_AUTO_APPEND_GENNAME was only being applied to widgets that have no custom theme defined already. This also meant that any auto-applied theme (like fakePrompt for borderless/readonly fields) would not honour CSS_AUTO_APPEND_GENNAME.

This is changed to all widgets honour this token, even if they have a theme applied already, by whatever mechanism.

Improved auto-fix for Time entry fields

Previously, if an incomplete time value was entered in a Time entry field, this would be wiped out as invalid. An incomplete entered value will now be more tolerant so you are more likely to get a valid time value even if the entered value is incomplete.

Cell dropdowns and spinner too big for if text scaling is active in Windows

If a user has the Windows Text Scale Factor (not general scaling) set to >100% then this causes cell controls of drop-downs and spinners to be displayed too large, so you cannot see all of the text value within the control.

Fix numeric edit patterns with negative

Fixed an issue where if a numeric edit pattern had only 'Z' and '-' negatives with decimal points, and a value was "-0.nnn" then the "0" character before the decimal point was not displayed, so you got "-.nnn".

Button with Image but no text when no bitmap given

If a button is defined with a bitmap, and given a Rapide-property of 'image within button', but then the bitmap property is blanked out, at runtime, Rapide should show the Text for the caption of the button instead of simply a blank button.

setBitmap on Button with Text at Button disappears

When using setBitmap RFL method on a button that is implemented as an "image with text at bottom", the whole control may disappear if the runtime determines that the size has changed (can even happen if the bitmap is exactly the same size as the original designed bitmap).

Exception on PV dropdown with numeric PVs

Fixed an error where Permitted Value Dropdown controls gave an exception if the PVs are a numeric domain.

Edge tracking right to control wrong for prompts

Where a control has EDGE tracking on its' RIGHT to another control, but NO tracking at all on its' LEFT side, the control's prompt now tracks position too.

RowTemplate Images should support BitmapPrefix

RowTemplate image cells now support BitmapPrefix.

Grid image cells not correctly sized

Image Cells in a Grid were not correctly sized for FIT or FILL options - they are now consistent with how RowTemplate Image Cells work.

MAKE error on Nullable Date in Listbox reported to console

If a NullableDate control was placed in a listbox, you may have received errors in the console relating to MAKE colouring – no crash, but unnecessary messages reported.

MessageBox widths on narrow browsers overflow

MessageBox dialogs with long text can be too wide to fit on a narrow browser (e.g. on mobile device browser). Text now wraps more intelligently making the popup dialog narrower.

Colour Selector dialog on browser always defaults to white

The colour selector dialog from a colour picker widget always opens up with White chosen, rather than the current colour (browser problem only).

Out-of-range Histogram to be blank

If the numeric value for a histogram control is outside of the min/max range specified, it should not display any coloured bar or text label with the value.

getClientLocalTimeOffset RFL method may crash

The RFL method getClientLocalTimeOffset on browser may cause an exception.