Identifying Dashboard Resources

All items within a dashboard (ex: Panels, Columns, Datmodels, Menu Items) are referred to as *Dashboard Resources* (DR). Dashboard Resources have several features:

* They follow a parent/child relationship. Each DR has exactly one parent (aka owning) DR and potentially many child Drs.
* They have an associated type (ex: PANEL, COLUMN, MENU\_ITEM)
* They are uniquely identified amongst it’s peers of the same type by their *localized Resource Identifier* (LRI). Note that multiple DRs may share the same LRI if they have different owners or are of different types. For example, two menu items can share the same LRI if they belong to different panels.
* Importantly, all dashboard resources are uniquely identifyied across the entire Dashboard by their *Dashboard Resource Identifier* (DRI).
* Many types of dashboard resources can be augmented with custom amiscript as either *Formulas* for *Callbacks*.
* For Amiscript, See the *DashboardResource* class and the member methods *getChildren(), getOwner(), getLRI(), getDRI(), getCallbacks(), getFormulas(), getDashboardResrouceType()*

Here are details for each type of resource. The DRI is in the general form *"TYPE:layoutAlias.id?extras"* Note that the *[LayoutAlias.]* will be blank for all resources in the root layout. Additionally, for grandchild layouts it will be in the form *child.grandchild.*

* The User’s Session. This is a constant:
DRI: "SESSION:session"
LRI: ""
Owner: null (session is the top of the tree and the only dashboard resource without a parent)
* The Root Layout. This is a contant:
DRI: "LAYOUT:"
LRI: ""
Parent**:** The user’s session
* Child layouts:
DRI: "LAYOUT:*LayoutAlias*"
LRI: "*LayoutAlias*" (see *Layout::getAlias*())
Parent**:** The user’s session
* Panels:
DRI: "PANEL:[*LayoutAlias*.]*PanelId*"
LRI: "*PanelId*" (see *Panel::getId*())
Parent: Layout that this panel belongs to
* Datamodels:
DRI: "DATAMODEL:[*LayoutAlias*.]*DatamodelName*"
LRI: "*DatamodelName*" (see *Datamodel::getId*())
Parent: Layout that this datamodel belongs to
* Relationships:
DRI: "RELATIONSHIP:[*LayoutAlias*.]*RelationshipId*"
LRI: "*RelationshipId*" (see *Relationship::getId*())
Parent: Layout that this relationship belongs to
* Form Fields:
DRI: "FIELD:[*LayoutAlias*.]*PanelId*?*FieldVariableName*"
LRI: "*FieldVariablename*" (see *FormField::getVariableName*())
Parent: Form Panel that this field belongs to
* Form Field Values:
DRI: "FIELD\_VALUE:[*LayoutAlias*.]*PanelId*?*FieldVariableName*"
LRI: "*FieldVariablename*" (see *FormField::getVariableName*())
Parent: Form Panel that this field belongs to
* Form Relationship Buttons
DRI: "FORMBUTTON:[*LayoutAlias*.]*PanelId*?*ButtonName"*LRI: "*ButtonName*" (see *FormRelationshipButton::getName*())
Parent: Form Panel that this Button menu item belongs to
* Custom Menu Items:
DRI: "MENU\_ITEM:[*LayoutAlias*.]*PanelId*?*MenuId*"
LRI: "*MenuId*" (see *MenuItem::getId*())
Parent: Panel that this custom menu item belongs to
* Chart Plot. The *XPos* and *YPos* are the position within the chart, such that top left is 0,0:
DRI: "CHART\_PLOT:[*LayoutAlias*.]*PanelId*?*XPos,YPos*"
LRI: "*XPos,YPos*" (see *ChartPanelPlot::getRow*() and *getColumn()*)Parent: Panel that this plot belongs to
* Chart Layer. See CHART\_PLOT for *XPos* and *YPos*. *LayerId* is the id of the layer
DRI: CHART\_LAYER:LayoutAlias.PanelId?XPos,YPos+LayerId
LRI: "*XPos,YPos+LayerId*"Parent: Chart Plot that this Layer belongs to
* Chart Axis. *Side* is either LEFT,TOP,BOTTOM,RIGHT. *Position* is row/column location, such that 0 means left most for horizonal axis and top for vertical acis. *Offset* is distance from the chart, such that 0 is closes.
DRI: "CHART\_AXIS:*LayoutAlias*.*PanelId*?*SIDE*-*Pos*,*Offset*"
LRI: "*SIDE*-*Pos*,*Offset* "Parent: Chart panel that this axis belongs to
* Tab Entry. Tab Id is the id of the tab:
DRI: "TAB\_ENTRY:[*LayoutAlias.*]*PanelId?TabId*"
LRI: "*TabId*" (see *Tab::getId*())Parent: Tab panel that this tab belongs to
* Table/Tree Column:
DRI: "COLUMN:[*LayoutAlias.*]*PanelId?ColumnId*"
LRI: "*ColumnId*" (see *TablePanelColumn::getId*() or *TreePanelColumn::getId*())
Parent: Panel that this column belongs to
* Tree Grouping:
DRI: "GROUPING:[*LayoutAlias.*]*PanelId?GroupingId*"
LRI: "*GroupingId*" (see *TrePanelGrouping::getId*())
Parent: Panel that this grouping belongs to
* Realtime Processor:
DRI: "PROCESSOR:[*LayoutAlias*.]*ProcessorId*"
LRI: "*ProcessorId*" (see *Processor::getId*())
Parent: Layout that this realtime process belongs to
* Realtime Processor Join:
DRI: "JOIN:[*LayoutAlias*.]*JoiningFeedId*"
LRI: "*JoiningFeedId*"
Parent: Realtime processor that this realtime join belongs to

The AmiScript associated with a Dashboard Resource can also be unique identified depending on if it’s a *Callback* or *formula.* Here is the format:

* Callbacks. The *OWNING\_DRI* is the *DRI of the resource that the callback belongs to.*
DRI: "*OWNING\_DRI*^*CallbackName*"

Callback Line Position. When using the debugger or following a strack trace, the exact position of character within an amiscript callback can be identified with the following syntax:
"*OWNING\_DRI*^*CallbackName:TEXT\_LINE:CHAR\_OFFSET*"

Parent: Owning Dashboard Resource
* Formulas. The *OWNING\_DRI* is the *DRI of the resource that the formula belongs to.*
DRI: "*OWNERDRI*^FormulaName"
Parent: Owning Dashboard Resource