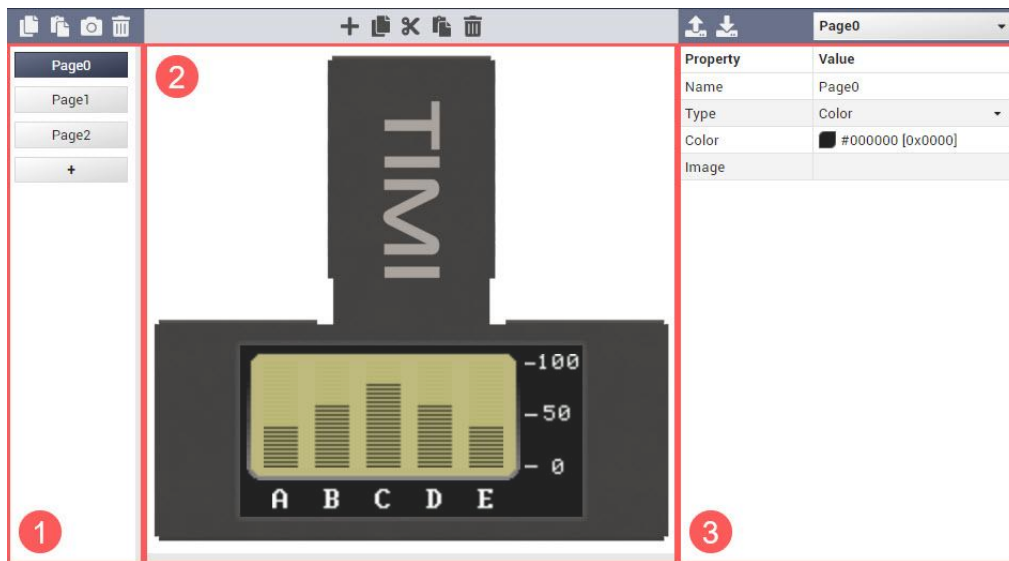# Mates Studio Graphics Editor

Introduction

Mates Studio provides a graphics editor for its Architect, Genius and Builder environments. This provides the ability to create custom page designs using various widgets supported by the BBM display modules. The interface is composed a graphics toolbar and three main editor tools.

1. Page Selection

    Provides a simple interface to add pages and select a page for editing.

2. Visual Editor

    Provides a drag-n-drop interface for selecting and positioning widgets.

[Property Editor](#)

3.

Provides an editable property table for editing page and widget parameters

Graphics Toolbar

The graphics toolbar provides buttons and dropdown menus for managing pages and widgets.

From left to right, the toolbar items are described in the table below:

Item	Description
Copy Page	Copies the selected page for pasting
Paste Page	Pastes the recently copied page to the current project
Capture Page	Saves a snapshot of the selected page as an image file
Delete Page	Deletes the selected page
Add Widget	Opens a Select Widget window
Copy Widget	Copies the selected widget for pasting
Cut Widget	Copies the selected widget for moving to another page
Paste Widget	Pastes the recently copied widget
Delete Widget	Deletes the selected widget
Load Configuration	Loads a widget or page configuration file

Item	Description
Save Configuration	Saves the selected a widget or page as a configuration file
Paste Code	Pastes a code snippet for the widget/page in the current cursor position in the text editor
Page/Widget Select	Lists the page and the widgets in the selected page for selection

Page Selection

Adding a Blank Page

Adding a Page from Template

Visual Editor

Add from Selection

Add from Template

Property Editor

Graphics Editor Widgets

Mates Widgets Compatibility

The table below lists the available widgets that applies to setWidgetValue, getWidgetValue, setWidgetParam and getWidgetParam functions.

Widget	Value
MATES_LED	0
MATES_RULER_GAUGE	1
MATES_ANGULAR_METER	2
MATES_GAUGE_A	3
MATES_GAUGE_B	4
MATES_LED_DIGITS	5
MATES_LABELS	6
MATES_BUTTON_A	32
MATES_SWITCH_A	33
MATES_SLIDER_B	34
MATES_KNOB	35
MATES_MEDIA_LED	64
MATES_MEDIA_COLOR_LED	65
MATES_GAUGE_C	66
MATES_GAUGE_D	67
MATES_GAUGE_E	68
MATES_GAUGE_F	69
MATES_MEDIA_GAUGE_A	70
MATES_MEDIA_GAUGE_B	71
MATES_MEDIA_GAUGE_C	72

Widget	Value
MATES_MEDIA_GAUGE_D	73
MATES_MEDIA_THERMOMETER	74
MATES_LED_SPECTRUM	75
MATES_MEDIA_SPECTRUM	76
MATES_SCOPE	77
MATES_SYMBOLS	78
MATES_ROTARY_GAUGE	79
MATES_BUTTON_B	96
MATES_SWITCH_B	97
MATES_MEDIA_BUTTON	98
MATES_SLIDER_A	99
MATES_SLIDER_C	100
MATES_SLIDER_D	101
MATES_SLIDER_E	102
MATES_SLIDER_F	103
MATES_MEDIA_SLIDER	104
MATES_MEDIA_ROTARY	105
MATES_SLIDE_SHOW	128
MATES_ANIMATION	129
MATES_FANCY_LED_A	130

Widget	Value
MATES_FANCY_LED_B	131
MATES_FANCY_BUTTON_A	160
MATES_FANCY_BUTTON_B	161

Note: *Some widgets available in Mates Studio behaves differently than majority of the widgets. Such widgets doesn't apply for the common set and get widget value and parameter functions.*