



## RapidBuilder v6.0 Deluxe Exporting to Flash™ (SWF) Format

### Introduction

This document details the RapidBuilder v6.0 Deluxe features that are supported and not supported when exported to Flash.

**NOTE:** The size of a generated Flash file is very close to the size of a RapidBuilder file. The Flash file size will increase depending on the number of distinct images and audio/sound files present within the file. The Flash file size will also be dependent on the number of changes from screen to screen after capturing has been completed. Note that 8-bit sound/audio files will also increase the Flash file size since they are not compressed when exported to Flash. Therefore, we recommend using something other than 8-bit sound/audio files (e.g., 16-bit sound/audio files) to keep the Flash file size down.

### Supported and Unsupported Features in Flash

Due to limitations in the current Flash Software Development Kit (SDK), some RapidBuilder v6.0 Deluxe features are not supported when exporting to Flash format.

The following table outlines the RapidBuilder v6.0 Deluxe features that are currently supported and not supported in Flash:

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
<p><b>Captured Frames</b></p> <p>RapidBuilder can capture the desktop in three (3) different ways:</p> <ol style="list-style-type: none"> <li>1. Capture Entire Desktop</li> <li>2. Capture Selected Screen Area</li> <li>3. Capture Active Window On Mouse Click</li> </ol>	<p>All of these options are supported when exporting to Flash.</p> <p><b>Note:</b> If a RapidBuilder v3.0 or v3.1 simulation (recorded using the “Capture Selected Screen Area” option) is opened in RapidBuilder v4.1, 5.0, or 6.0 and then exported to Flash format (using the “Selected Area Only” option), the captured screen areas in the Flash file will be displayed on a solid background (instead of in a fitted window).</p>	<p>The following capture options are not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Remove Target Object Focus During Playback (on the “Playback Options” tab).</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<p>To prevent this from occurring, the developer must open the simulation in RapidBuilder v4.1, 5.0, or 6.0 and then perform a “Save As” action on each individual frame of the simulation. Once this has been done, the developer can export the file to Flash using the “Selected Area Only” option. In the resulting Flash file, the captured screen areas in the Flash file will be displayed in a fitted window as they should be.</p>	
<p><b>Supported Screen Resolutions</b></p> <ul style="list-style-type: none"> <li>• 640 x 480</li> <li>• 800 x 600</li> <li>• 1024 x 768</li> </ul> <p><b>Color Settings</b></p> <ul style="list-style-type: none"> <li>• 256 colors (8 bits per pixel)</li> <li>• 65,000 colors (16 bits per pixel)</li> <li>• 16,000,000 colors (24 bits per pixel)</li> </ul>	<p>Flash supports the same resolutions and color settings.</p> <p><b>Note:</b> 24-bit data will be converted to 32-bit.</p>	<p>None.</p>
<p><b>Edit Objects</b></p>	<p>The following RapidBuilder Edit Objects are supported in Flash:</p> <ul style="list-style-type: none"> <li>• Video Stage</li> <li>• Flash Stage</li> <li>• Mouse Plot</li> <li>• Instruction Box</li> <li>• Text Field</li> <li>• Rotated Text Field</li> <li>• Image</li> <li>• Animated GIF</li> <li>• Terminal Object</li> </ul>	<p>The following RapidBuilder Edit Objects are not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Sound Track Selector</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Menu Builder</li> <li>• Highlighter</li> <li>• Drag and Drop</li> <li>• Validation Field</li> <li>• Login Field</li> <li>• Combo Box</li> </ul>	
<b>“Video Stage” Edit object</b>	<p>Video Stage Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Select Video Clip (all files except ASF)</li> <li>• Stage Image Behavior</li> <li>• Caption Text</li> <li>• Back Color</li> <li>• Transparent</li> <li>• Auto Play</li> <li>• Control Panel</li> <li>• In Frame</li> <li>• Out Frame</li> <li>• Global</li> <li>• Global ID</li> </ul> <p>Video Stage Actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Finish Play</li> <li>• On Stop Play</li> </ul> <p>Video Stage Events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Validation Frame</li> <li>• Return to System Variable</li> </ul>	<p>Video Stage Events not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> </ul> <p><b>Note:</b> Video files without audio will play at the rate specified in the <b>Frame Rate</b> field in the <b>Flash Export Settings</b> dialog box. Video files with audio will play in synch with the sound.</p>	
<b>“Flash Stage” Edit object</b>	<p>Flash Stage Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Select Flash File</li> </ul> <p><b>Note:</b> Linked and embedded Flash files are both supported. By default, a Flash file imported to the Flash Stage is linked externally. However, it may be embedded in the RapidBuilder file by selecting the <b>“Embed Within File”</b> option in the Resource Editor.</p> <ul style="list-style-type: none"> <li>• Stage Image Behavior</li> <li>• Caption Text</li> <li>• Back Color</li> <li>• Transparent</li> <li>• Auto Play</li> <li>• Allow Audio on Hide</li> <li>• Control Panel</li> <li>• In Frame</li> <li>• Out Frame</li> <li>• Global</li> <li>• Global ID</li> </ul>	<p>Flash Stage events not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Play RBX/EXM File (EXM file only)</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<p>Flash Stage actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Finish Play</li> <li>• On Stop Play</li> </ul> <p>Flash Stage events (for “On Finish Play” and “On Stop Play” actions) supported in Flash:</p> <ul style="list-style-type: none"> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (RBX files only; EXM files are not supported in Flash).</li> <li>• Play RPE File</li> </ul> <p><b>Note:</b> Flash files without audio will play at the rate specified in the <b>Frame Rate</b> field in the <b>Flash Export Settings</b> dialog box. Flash files with audio will play in synch with the sound.</p>	
<p><b>“Mouse Plot” Edit object</b></p>	<p>Mouse Plot Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Behavior</li> <li>• Mouse Plot Image</li> <li>• Mouse Plot Speed</li> </ul> <p>Mouse Plot Actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• End of Mouse Trail</li> </ul> <p>Mouse Plot Events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> </ul>	<p>Mouse Plot Properties not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Color</li> <li>• Back Color</li> </ul> <p>Mouse Plot Events not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<p><b>Note:</b> The Mouse Plot animation will play at the rate specified in the <b>Frame Rate</b> field in the <b>Flash Export Settings</b> dialog box.</p>	
<p><b>“Instruction Box” Edit object</b></p>	<p>Instruction Box Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Scrolling</li> </ul> <p><b>Note:</b> An Instruction Box exported to Flash as an image will not support scrolling.</p> <ul style="list-style-type: none"> <li>• Back Color</li> <li>• Title Bar</li> <li>• Title Bar Icon</li> <li>• Title Bar Fore Color</li> <li>• Title Bar Background Color</li> <li>• Caption Text</li> <li>• Line Space</li> <li>• Baselines</li> </ul> <p><b>Note:</b> Baselines are only supported in an Instruction Box exported to Flash as an image.</p> <ul style="list-style-type: none"> <li>• Inline Graphics</li> </ul> <p><b>Note:</b> Inline graphics are only supported in an Instruction Box exported to Flash as an image. In addition, all images from RapidBuilder are exported as bitmaps in Flash.</p> <ul style="list-style-type: none"> <li>• Spread Over Frames</li> <li>• Record Field</li> <li>• Global</li> </ul>	<p>Instruction Box Properties not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Tab Space</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Global ID</li> <li>• Text to Speech (including “State”, “Automatic Controls”, “On Demand Controls”, “Automatic and On Demand Controls”, and “Speech Settings”)</li> </ul> <p><b>Note:</b> There are several limitations to the support for Text-to-Speech functionality in Flash. For more information, see “<b>Text-to-Speech Functionality in Flash</b>” later in this document.</p> <ul style="list-style-type: none"> <li>• Margin Settings</li> </ul> <p>Right-click menu options supported in Flash:</p> <ul style="list-style-type: none"> <li>• Font</li> <li>• Color</li> <li>• Bullets</li> <li>• Align (Left, Right, and Center)</li> <li>• Set, Modify, Clear Hotword/Hyperlink</li> </ul> <p><b>Note:</b> For a hotword, the “Read From File” and “Play EXM” options are not supported in Flash.</p>	
<p><b>“Text Field” Edit object</b></p>	<p>Text Field Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Attribute</li> <li>• Text Field Call-Outs</li> <li>• Transparent</li> <li>• Scrolling</li> </ul>	<p>Text Field Properties not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Tab Space</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<p><b>Note:</b> A Text Field exported to Flash as an image will not support scrolling.</p> <ul style="list-style-type: none"> <li>• Back Color</li> <li>• Line Space</li> <li>• Baselines</li> </ul> <p><b>Note:</b> Baselines are only supported in a Text Field exported to Flash as an image.</p> <ul style="list-style-type: none"> <li>• Inline Graphics</li> </ul> <p><b>Note:</b> Inline graphics are only supported in a Text Field exported to Flash as an image. In addition, all images from RapidBuilder are exported as bitmaps in Flash.</p> <ul style="list-style-type: none"> <li>• Text File</li> <li>• Paragraph Number</li> <li>• Record Field</li> <li>• Slide-out</li> <li>• Effects</li> <li>• Speed</li> <li>• Global</li> <li>• Global ID</li> <li>• Text to Speech (including “State”, “Automatic Controls”, “On Demand Controls”, “Automatic and On Demand Controls”, and “Speech Settings”)</li> </ul> <p><b>Note:</b> There are several limitations to the support for Text-to-Speech functionality in Flash. For more information, see “<b>Text-to-Speech Functionality in Flash</b>” later in this document.</p> <ul style="list-style-type: none"> <li>• Margin Settings</li> </ul> <p>Right-click menu options supported in Flash:</p> <ul style="list-style-type: none"> <li>• Font</li> </ul>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Color</li> <li>• Bullets</li> <li>• Align (Left, Right, and Center)</li> <li>• Set, Modify, Clear Hotword/Hyperlink</li> </ul> <p><b>Note:</b> For a hotword, the “Read From File” and “Play EXM” options are not supported in Flash.</p>	
<b>“Rotated Text Field” Edit object</b>	<p>Rotated Text Field Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Attribute</li> <li>• Transparent</li> <li>• Alignment</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Rotation Degree</li> <li>• Global</li> <li>• Global ID</li> </ul>	None.
<b>“Image” Edit object</b>	<p>Image Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Image File (All images from RapidBuilder are exported as bitmaps in Flash).</li> </ul>	None.

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Align</li> <li>• Stretch</li> <li>• Rotation Degree</li> <li>• Set Chroma Key</li> <li>• Slide-out</li> <li>• Global</li> <li>• Global ID</li> </ul> <p>Image actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Left Single Click</li> <li>• On Left Double Click</li> <li>• On Right Single Click</li> <li>• On Right Double Click</li> </ul> <p>Image events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Validation Message</li> <li>• Validation Error Message</li> </ul>	
<p><b>“Animated GIF” Edit object</b></p>	<p>Animated GIF Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Image File</li> <li>• Align</li> <li>• Stretch</li> <li>• Set Chroma Key</li> <li>• Slide-out</li> <li>• Global</li> <li>• Global ID</li> </ul> <p>Animated GIF actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Left Single Click</li> </ul>	<p>None.</p>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• On Left Double Click</li> <li>• On Right Single Click</li> <li>• On Right Double Click</li> </ul> <p>Animated GIF events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Validation Message</li> <li>• Validation Error Message</li> </ul>	
<p><b>“Terminal Object” Edit object</b></p>	<p>Terminal Object Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Attribute (all except Anglebracket Bottom and Anglebracket Top)</li> <li>• Scrolling</li> <li>• Validation String</li> <li>• Validation Error Message</li> <li>• Case Sensitive</li> <li>• Align Text (Left)</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> </ul> <p>Terminal Object Action Keys supported in Flash:</p> <ul style="list-style-type: none"> <li>• ENTER</li> <li>• TAB</li> <li>• DEL</li> <li>• SPACE</li> <li>• INSERT</li> <li>• HOME</li> <li>• PAGE UP</li> </ul>	<p>Terminal Object Properties not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Attribute (Anglebracket Bottom and Anglebracket Top)</li> <li>• Dynamic Grow</li> <li>• Align Text (Right and Center)</li> </ul> <p>Terminal Object Events not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• PAGE DOWN</li> <li>• END</li> <li>• LEFT ARROW</li> <li>• RIGHT ARROW</li> <li>• UP ARROW</li> <li>• DOWN ARROW</li> </ul> <p>Terminal Object Events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Validation Message</li> <li>• Validation Image</li> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> </ul>	
<b>“Menu Builder” Edit object</b>	<p>Menu Builder Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Attribute</li> <li>• Caption Text</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Selection Bar Fore Color</li> <li>• Selection Bar Background Color</li> <li>• Transparent</li> <li>• Tool Tip</li> <li>• Numbering Style</li> </ul>	<p>Menu Builder Properties not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Default Mouse Click</li> <li>• Dockable</li> <li>• Docked Menu Alignment</li> <li>• Slide-out On Mouse Over</li> <li>• Slide-out Effect</li> <li>• Vertical Text – “Vertical Text” and “Font” (Note that only “Gradient Fill” is supported in Flash).</li> </ul> <p>Menu Builder Events not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Show Menu Button</li> <li>• Completed Milestone Icon</li> </ul> <p><b>Note:</b> In order for the milestone icons to work in Flash, the RapidBuilder file must be set to “<b>Web</b>” mode before being exported to Flash.</p> <p>In addition, the playback browser must be configured to check for newer versions of stored pages whenever the Flash file is played. In Internet Explorer, select <b>Tools   Internet Options</b>. In the <b>Internet Options</b> dialog box, on the <b>General</b> tab, click the <b>Settings</b> button. In the <b>Settings</b> dialog box, under <b>Check for Newer Versions of Stored Pages</b>, select the <b>Every Visit to the Page</b> option. Click <b>OK</b> to close the <b>Settings</b> dialog box, and then click <b>OK</b> to close the <b>Internet Options</b> dialog box.</p> <ul style="list-style-type: none"> <li>• Show Icons</li> <li>• Icon Size</li> <li>• Initial State</li> <li>• Auto Menu</li> <li>• Vertical Text – Gradient Fill (Note that “Vertical Text” and “Font” are not supported in Flash).</li> <li>• Normal Image</li> <li>• Clicked Image</li> <li>• Hover Image</li> <li>• Menu Items</li> </ul> <p>Menu Builder Events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Validation Message</li> <li>• Run an External File</li> </ul>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<p><b>Note:</b> The “Run an External File” event will only work in a Flash file that is launched via an HTML file.</p> <ul style="list-style-type: none"> <li>• Open URL</li> </ul> <p><b>Note:</b> For the “Open URL” event, a “mailto” link will only work in a Flash file that is launched via an HTML file.</p> <ul style="list-style-type: none"> <li>• Hover Sound</li> <li>• Exit Play</li> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> </ul>	
<p><b>“Highlighter” Edit object</b></p>	<p>Highlighter Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Highlighter Mode (Cell Highlighter, Text Highlighter, Area Highlighter)</li> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Reverse Colors</li> <li>• Select Accuracy</li> <li>• Guide Lines (Animated, Cycle Colors, Guide Line Style, Attribute, Color, Line Start Attributes, Line Start Image, Line End Attributes, Line End Color, Line End Image)</li> </ul>	<p>Highlighter Properties not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Text Highlighter (Reset Grid Upon Click, Dynamic Grow, Cell Horizontal Size, Cell Vertical Size)</li> <li>• Cell Highlighter (Reset Grid Upon Click, Dynamic Grow, Cell Horizontal Size, Cell Vertical Size)</li> </ul> <p>Highlighter Events not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Text Highlighter (Highlight Color, Cell Highlighter Color, Translucent, Show Grid Borders, Grid Border Thickness, Grid Border Color, Show Cell Borders, Cell Border Color, Cell Border Thickness, Cell Vertical Size, Cell Horizontal Size)</li> <li>• Cell Highlighter (Cell Highlighter Color, Translucent, Show Grid Borders, Grid Border Thickness, Grid Border Color, Show Cell Borders, Cell Border Color, Cell Border Thickness, Cell Vertical Size, Cell Horizontal Size)</li> <li>• Area Highlighter (Area Highlighter Color, Area Highlighter Style, Draw Mode)</li> </ul> <p>Highlighter Actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Mouse Up</li> <li>• On Mouse Down</li> </ul> <p>Highlighter Events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Validation Error Message</li> <li>• Validation Message</li> <li>• Validation Image</li> <li>• Validation Sound</li> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> </ul>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
<p><b>“Drag and Drop” Edit object</b></p>	<p>Drag and Drop Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Default Image</li> <li>• Drag Image</li> <li>• Set Drag Image to Thin</li> <li>• Drag Over Image</li> <li>• Set Drag Over Image to Thin</li> <li>• Drop Image</li> <li>• Select Accuracy</li> <li>• Set Chroma Key</li> <li>• Snap to Drag Zone</li> <li>• Hide Object on Drag</li> <li>• Guide Lines (Animated, Cycle Colors, Attribute, Color, Line Start Attributes, Line Start Image, Line End Attributes, Line End Color, Line End Image)</li> </ul> <p>Drag and Drop Actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left Mouse Up</li> <li>• Left Mouse Down</li> <li>• On Drag</li> <li>• On Drop</li> </ul> <p>Drag and Drop Events supported in Flash (for Left Mouse Up action):</p> <ul style="list-style-type: none"> <li>• Mouse Pointer Image</li> <li>• Validation Error Message</li> <li>• Validation Message</li> <li>• Validation Image</li> <li>• Validation Sound</li> </ul>	<p>Drag and Drop Actions not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Right Mouse Up</li> <li>• Right Mouse Down</li> </ul> <p>Drag and Drop Events not supported in Flash (for Left Mouse Down action):</p> <ul style="list-style-type: none"> <li>• Mouse Pointer Image</li> <li>• Validation Error Message</li> <li>• Validation Message</li> <li>• Validation Image</li> <li>• Validation Sound</li> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> </ul> <p>Drag and Drop Events supported in Flash (for Left Mouse Down action):</p> <ul style="list-style-type: none"> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> </ul> <p>Drag and Drop Events supported in Flash (for On Drag and On Drop actions):</p> <ul style="list-style-type: none"> <li>• Mouse Pointer Image</li> </ul>	
<b>“Validation Field” Edit object</b>	<p>Validation Field Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Attribute</li> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Validation String</li> <li>• Assign to User Variable</li> <li>• Character Limit</li> <li>• Case Sensitive</li> <li>• Set as Password</li> <li>• Ignore Null Character</li> <li>• Align Text (Left only)</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> </ul>	<p>Validation Field Properties not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Dynamic Grow</li> <li>• Align Text (Right and Center)</li> <li>• Margin Settings (Top Margin and Bottom Margin)</li> </ul> <p>Validation Field Events (for validation keys, On Auto Entry, and On Time Out) not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul> <p>Additional Validation Field Events (for On Time Out) not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Attempts/Hint Properties</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Clear Text</li> <li>• Default String</li> <li>• Time Out</li> <li>• Margin Settings (Left Margin and Right Margin only)</li> </ul> <p>Validation Field Actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Auto Entry</li> <li>• On Focus Lost</li> </ul> <p><b>Note:</b> The "On Focus Lost" action is supported only for a single Validation Field on a frame. If there are multiple Validation Fields on a frame with the "On Focus Lost" action configured, the associated events will not be initiated.</p> <ul style="list-style-type: none"> <li>• On Exact String</li> <li>• On Time Out</li> <li>• Action Keys</li> </ul> <p>Validation Field Action Keys supported in Flash:</p> <ul style="list-style-type: none"> <li>• ENTER</li> <li>• TAB</li> <li>• DEL</li> <li>• SPACE</li> <li>• INSERT</li> <li>• HOME</li> <li>• PAGE UP</li> <li>• PAGE DOWN</li> <li>• END</li> <li>• LEFT ARROW</li> <li>• RIGHT ARROW</li> <li>• UP ARROW</li> <li>• DOWN ARROW</li> </ul>	<ul style="list-style-type: none"> <li>• Auto Fill (Auto Fill, Effect, Speed)</li> <li>• Validation Error Message</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• F1</li> </ul> <p><b>Note:</b> In the browser, the <b>F1</b> keystroke will work along with the Help menu being displayed.</p> <ul style="list-style-type: none"> <li>• F2</li> <li>• F5</li> <li>• F7</li> <li>• F8</li> <li>• F9</li> <li>• F12</li> <li>• CTRL + N</li> </ul> <p>Validation Field Events (for a specified validation action key and “On Focus Lost” and “On Exact String” actions) supported in Flash:</p> <ul style="list-style-type: none"> <li>• Attempts/Hint Properties</li> <li>• Validation Message</li> <li>• Validation Error Message</li> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> <li>• Move to Next Field</li> </ul> <p>Validation Field Events (for the On Time Out action) supported in Flash:</p> <ul style="list-style-type: none"> <li>• Validation Message</li> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> <li>• Move to Next Field</li> </ul>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	Validation Field Events (for the On Auto Entry action) supported in Flash: <ul style="list-style-type: none"> <li>• Attempts/Hint Properties</li> <li>• Validation Message</li> <li>• Validation Error Message</li> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> <li>• Move to Next Field</li> </ul>	
<b>“Login Field” Edit object</b>	Login Field Properties supported in Flash: <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Transparent</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Case Sensitive</li> <li>• Assign to User Variable</li> </ul>	None.
<b>“Combo Box” Edit object</b>	Combo Box Properties supported in Flash: <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Style</li> </ul>	Combo Box Events not supported in Flash: <ul style="list-style-type: none"> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Items</li> <li>• Selected Items</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Global</li> <li>• Global ID</li> </ul> <p>Combo Box Events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Run an External File <ul style="list-style-type: none"> <li><b>Note:</b> The “Run an External File” event will only work in a Flash file that is launched via an HTML file.</li> </ul> </li> <li>• Open URL <ul style="list-style-type: none"> <li><b>Note:</b> For the “Open URL” event, a “mailto” link will only work in a Flash file that is launched via an HTML file.</li> </ul> </li> <li>• Validation Message</li> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> <li>• Exit Play (Exit Play, Exit Play Warning, and Exit Warning Message)</li> </ul>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
<b>Button Objects</b>	<p>The following RapidBuilder Button Objects are supported in Flash:</p> <ul style="list-style-type: none"> <li>• Hyperlink</li> <li>• Radio Button</li> <li>• Check Box</li> <li>• Progress Button</li> <li>• Slider Control Object</li> <li>• Playback Control Button</li> </ul>	None.
<b>“Hyperlink” Button object</b>	<p>Hyperlink Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Button Style</li> <li>• Attribute</li> <li>• Transparent</li> <li>• Caption Text</li> <li>• Align Text</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Tool Tip</li> <li>• Invert</li> <li>• Toggle</li> <li>• Multi-Button Validation</li> <li>• Time Out</li> <li>• Not a Wait Object</li> <li>• Set for Navigation Only</li> <li>• Global</li> <li>• Global ID</li> </ul>	<p>Hyperlink Events not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Animate Images</li> <li>• Normal Animation</li> <li>• Clicked Animation</li> <li>• Hover Animation</li> <li>• Enable Rollover</li> <li>• Rollover Color</li> <li>• Translucent Rollover</li> <li>• Reverse Rollover Colors</li> </ul> <p>Hyperlink Actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Left Single Click</li> <li>• On Right Single Click</li> <li>• On Left Double Click</li> <li>• On Right Double Click</li> <li>• On Mouse Enter</li> <li>• On Mouse Leave</li> <li>• On Time Out</li> </ul> <p>Hyperlink Events supported in Flash (for On Left Single Click, On Right Single Click, On Left Double Click, On Right Double Click, and On Time Out actions):</p> <ul style="list-style-type: none"> <li>• Run an External File <ul style="list-style-type: none"> <li><b>Note:</b> The “Run an External File” event will only work in a Flash file that is launched via an HTML file.</li> </ul> </li> <li>• Open URL <ul style="list-style-type: none"> <li><b>Note:</b> For the “Open URL” event, the web page can only be opened in the same window if the Flash file is launched via an HTML file. In addition, a “mailto” link will only work if the Flash file is launched via an HTML file.</li> </ul> </li> <li>• Validate Target</li> <li>• Incorrect Feedback Options</li> <li>• Correct Feedback Options</li> </ul>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Attempts/Hint Properties</li> <li>• Validation Error Message</li> <li>• Validation Message</li> <li>• Validation Image</li> <li>• Validation Sound</li> <li>• Validation Video</li> <li>• Copy Text*</li> <li>• Clear Text*</li> </ul> <p><b>*Note:</b> In order for the “Copy Text” and “Clear Text” events to work in the exported Flash file, the “<b>Display as Flash Text Field</b>” option must be selected (in the <b>Flash Export Settings</b> dialog) prior to exporting the RapidBuilder file to Flash format.</p> <ul style="list-style-type: none"> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> <li>• Exit Play (Exit Play, Exit Play Warning, and Exit Warning Message)</li> </ul> <p>Hyperlink Events supported in Flash (for On Mouse Enter and On Mouse Leave actions):</p> <ul style="list-style-type: none"> <li>• Hover Sound</li> <li>• Mouse Pointer</li> </ul> <p><b>Note:</b> If the developer does not specify a Mouse Pointer hover image for the Hyperlink, the developer may still control whether the default hover image for the Hyperlink will be a white hand or an arrow pointer. For more information, see “<b>Mouse Pointer Hover Image for Hyperlink in Flash</b>” later in this document.</p>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Run an External File <b>Note:</b> The “Run an External File” event will only work in a Flash file that is launched via an HTML file.</li> <li>• Open URL <b>Note:</b> For the “Open URL” event, the web page can only be opened in the same window if the Flash file is launched via an HTML file. In addition, a “mailto” link will only work if the Flash file is launched via an HTML file.</li> <li>• Validate Target</li> <li>• Validation Error Message</li> <li>• Validation Message</li> <li>• Validation Image</li> <li>• Validation Sound</li> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> <li>• Exit Play (Exit Play, Exit Play Warning, and Exit Warning Message)</li> </ul>	
<p><b>“Radio Button” Button object</b></p>	<p>Radio Button Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Attribute</li> <li>• Flat</li> <li>• Transparent</li> <li>• Caption Text</li> </ul>	None.

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Align Text</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Tool Tip</li> <li>• Scrolling</li> <li>• Button Alignment</li> <li>• Animate Images</li> <li>• Normal Animation</li> <li>• Clicked Animation</li> <li>• Hover Animation</li> </ul>	
<b>“Check Box” Button object</b>	<p>Check Box Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Attribute</li> <li>• Flat</li> <li>• Transparent</li> <li>• Caption Text</li> <li>• Align Text</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Tool Tip</li> <li>• Scrolling</li> <li>• Button Alignment</li> <li>• Animate Images</li> <li>• Normal Animation</li> <li>• Clicked Animation</li> </ul>	None.

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Hover Animation</li> </ul>	
<b>“Progress Button” Button object</b>	<p>Progress Button Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Attribute</li> <li>• Transparent</li> <li>• Normal Image</li> <li>• Clicked Image</li> <li>• Mouse Over Image</li> <li>• Caption Text</li> <li>• Align Text</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Tool Tip</li> <li>• Global</li> <li>• Global ID</li> </ul> <p>Progress Button Actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Left Single Click</li> </ul> <p>Progress Button Events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Display Report</li> </ul>	None.

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
<p><b>“Slider Control” Button object</b></p>	<p>Slider Control Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Attribute</li> <li>• Transparent</li> <li>• Slider Node Border Color</li> <li>• Slider Node Fill Color</li> <li>• Slider Area Border Color</li> <li>• Slider Area Fill color</li> <li>• Slider Node Image</li> <li>• Set Node Image Chroma Key</li> <li>• Slider Area Image</li> <li>• Set Area Image Chroma Key</li> <li>• Mouse Button Support (“<b>Left Mouse Click</b>” option only)</li> <li>• Slider Node Border Width</li> <li>• Slider Area Border Width</li> <li>• Disable Navigation</li> <li>• Tool Tip</li> <li>• Global</li> <li>• Global ID</li> </ul>	<p>None.</p>
<p><b>“Playback Control Button” Button object</b></p>	<p>Playback Control Button Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Navigation Type</li> </ul>	<p>None.</p>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Rewind/Forward Speed</li> <li>• Rewind Options</li> <li>• Forward Options</li> <li>• Attribute</li> <li>• Transparent</li> <li>• Caption Text</li> <li>• Align Text</li> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Tool Tip</li> <li>• Global</li> <li>• Global ID</li> <li>• Animate Images</li> <li>• Normal Animation</li> <li>• Clicked Animation</li> <li>• Hover Animation</li> </ul> <p>Playback Control Button Actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Left Single Click</li> <li>• On Right Single Click</li> <li>• On Left Double Click</li> <li>• On Right Double Click</li> <li>• On Mouse Enter</li> </ul> <p>Playback Control Button Events supported in Flash (for On Left Single Click, On Left Double Click, On Right Single Click, and On Right Double Click actions):</p> <ul style="list-style-type: none"> <li>• Validation Frame</li> <li>• Hide/Show Objects</li> </ul>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	Playback Control Button Events supported in Flash (for On Mouse Enter action): <ul style="list-style-type: none"> <li>• Hover Sound</li> <li>• Mouse Pointer</li> <li>• Validation Frame</li> <li>• Hide/Show Objects</li> <li>• Exit Play</li> <li>• Exit Play Warning</li> <li>• Exit Warning Message</li> </ul>	
<b>Draw Objects</b>	The following RapidBuilder Draw Objects are supported in Flash: <ul style="list-style-type: none"> <li>• Line</li> <li>• Round Rectangle</li> <li>• Ellipse</li> <li>• Rectangle</li> <li>• Pencil</li> <li>• Air Brush</li> <li>• Paint Brush</li> <li>• Polyline</li> <li>• Polygon</li> </ul>	None.
<b>“Line” Draw object</b>	Line Properties supported in Flash: <ul style="list-style-type: none"> <li>• X1</li> <li>• Y1</li> <li>• X2</li> <li>• Y2</li> <li>• Line Style (Only “Solid”)</li> <li>• Color</li> <li>• Width</li> <li>• Arrow</li> </ul>	Line Properties not supported in Flash: <ul style="list-style-type: none"> <li>• Line Style (all options except “Solid”)</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Slide-out</li> <li>• Global</li> <li>• Global ID</li> </ul>	
<b>“Round Rectangle” Draw object</b>	Round Rectangle Properties supported in Flash: <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Border Style (Only “Solid”)</li> <li>• Border Color</li> <li>• Border Width</li> <li>• Fill Mode</li> <li>• Fill Color</li> <li>• Fill Pattern</li> <li>• Slide-out</li> <li>• Global</li> <li>• Global ID</li> </ul>	Round Rectangle Properties not supported in Flash: <ul style="list-style-type: none"> <li>• Border Style (all options except “Solid”)</li> </ul>
<b>“Ellipse” Draw object</b>	Ellipse Properties supported in Flash: <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Border Style (Only “Solid”)</li> <li>• Border Color</li> <li>• Border Width</li> <li>• Fill Mode</li> <li>• Fill Color</li> <li>• Fill Pattern</li> <li>• Slide-out</li> </ul>	Ellipse Properties not supported in Flash: <ul style="list-style-type: none"> <li>• Border Style (all options except “Solid”)</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Global</li> <li>• Global ID</li> </ul>	
<b>“Rectangle” Draw object</b>	Rectangle Properties supported in Flash: <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Border Style (Only “Solid”)</li> <li>• Border Color</li> <li>• Border Width</li> <li>• Fill Mode</li> <li>• Fill Color</li> <li>• Fill Pattern</li> <li>• Slide-out</li> <li>• Global</li> <li>• Global ID</li> </ul>	Rectangle Properties not supported in Flash: <ul style="list-style-type: none"> <li>• Border Style (all options except “Solid”)</li> </ul>
<b>“Pencil” Draw object</b>	Pencil Properties supported in Flash: <ul style="list-style-type: none"> <li>• Color</li> <li>• Slide-out</li> <li>• Global</li> <li>• Global ID</li> </ul>	None.
<b>“Air Brush” Draw object</b>	Air Brush Properties supported in Flash: <ul style="list-style-type: none"> <li>• Color</li> <li>• Global</li> <li>• Global ID</li> </ul>	Air Brush Properties not supported in Flash: <ul style="list-style-type: none"> <li>• Slide-out</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
<b>“Paint Brush” Draw object</b>	Paint Brush Properties supported in Flash: <ul style="list-style-type: none"> <li>• Color</li> <li>• Slide-out</li> <li>• Global</li> <li>• Global ID</li> </ul>	None.
<b>“Polyline” Draw object</b>	Polyline Properties supported in Flash: <ul style="list-style-type: none"> <li>• Color</li> <li>• Width</li> <li>• Slide-out</li> <li>• Global</li> <li>• Global ID</li> </ul>	None.
<b>“Polygon” Draw object</b>	Polygon Properties supported in Flash: <ul style="list-style-type: none"> <li>• Color</li> <li>• Width</li> <li>• Fill Mode</li> <li>• Fill Color</li> <li>• Slide-out</li> <li>• Global</li> <li>• Global ID</li> </ul>	None.

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
<b>Captured Mouse Click Object</b>	<p>Captured Mouse Click Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Left</li> <li>• Top</li> <li>• Height</li> <li>• Width</li> <li>• Target</li> </ul> <p><b>Note:</b> Captured single left mouse clicks and single right mouse clicks are both supported in Flash.</p> <ul style="list-style-type: none"> <li>• Target Image</li> <li>• Mouse Over Image</li> <li>• Hide Target Image</li> <li>• Hide Mouse Over Images</li> </ul> <p>Captured Mouse Click Events supported in Flash:</p> <ul style="list-style-type: none"> <li>• Audio File Name</li> <li>• Attempts/Hint Properties</li> <li>• Validation Error Message</li> <li>• Validation Message</li> <li>• Validation Frame</li> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> <li>• Exit Play (Exit Play, Exit Play Warning, and Exit Warning Message)</li> </ul>	<p>None.</p>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
<p><b>Frame Properties</b></p>	<p>Frame Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Audio File Name</li> <li>• Allow Audio Interruption</li> </ul> <p>This property will work with audio files linked to frames (through the “Audio File Name” property), audio files imported to frames, and sound clips recorded on frames (using the Sound Recorder).</p> <p>The “Allow Audio Interruption” property will not work for captured background sound (recorded through the “Capture Background Sound” capture setting), a linked background sound file (added through the “Background Sound Settings” option on the Preferences menu), or sound tracks (added through the “Create Sound Track” option on the Preferences menu).</p> <ul style="list-style-type: none"> <li>• User Action (always Enabled)</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Gradient Fill</li> <li>• Background Image</li> <li>• Image Display (Center, Fit the Frame, Tile)</li> <li>• Default Focus (for Validation Field only)</li> <li>• Hide and Show</li> </ul> <p><b>Note:</b> For a list of the specific Hide and Show features that are supported in Flash, refer to the “<b>Hide and Show Features Supported in Flash</b>” section later in this document.</p> <ul style="list-style-type: none"> <li>• Frame Delay</li> <li>• System Variable</li> </ul>	<p>Frame Properties not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Audio Name</li> <li>• Audio Notes</li> <li>• Slide-out Effects (Display Sequence, Slide-out Speed, Delay Between Slide-outs)</li> </ul> <p>Frame Events not supported in Flash (for On Left Single Click, On Left Double Click, On Right Single Click, On Right Double Click, and On Time Out):</p> <ul style="list-style-type: none"> <li>• Audio File Name</li> <li>• Audio Name</li> <li>• Audio Notes</li> <li>• Play RBX/EXM File (Applies to EXM files only; RBX files are supported in Flash).</li> </ul> <p>Additional Frame Events not supported in Flash (for On Time Out):</p> <ul style="list-style-type: none"> <li>• Attempts/Hint Properties</li> </ul> <p>Frame Events not supported in Flash (for On Enter and On Leaving):</p> <ul style="list-style-type: none"> <li>• Frame Transition Effects (Fade Method, Fade to Color, Fade Effect, Speed, Direction, Sound)</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Validation Key</li> <li>• Mouse Image</li> <li>• Time Out</li> <li>• Global ID</li> <li>• Frame Index</li> <li>• Index Name</li> </ul> <p>Frame Actions supported in Flash:</p> <ul style="list-style-type: none"> <li>• On Left Single Click</li> <li>• On Left Double Click</li> <li>• On Right Single Click</li> <li>• On Right Double Click</li> <li>• On Time Out</li> <li>• On Enter</li> <li>• On Leaving</li> <li>• Any captured key or key added through the Validation Key property</li> </ul> <p><b>Note:</b> The only keystrokes that are not supported as frame validation keys in Flash are the shortcut keys used by the browser and ALT+ combination keys (which are not supported due to Flash limitations).</p> <p>Frame Events supported in Flash (for On Left Single Click, On Left Double Click, On Right Single Click, On Right Double Click, Validation Keys, and On Time Out):</p> <ul style="list-style-type: none"> <li>• Validate Target (for captured clicks only)</li> <li>• Attempts/Hint Properties (for everything except "On Time Out")</li> <li>• Validation Error Message (for everything except "On Time Out")</li> <li>• Validation Message</li> <li>• Validation Frame</li> </ul>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<ul style="list-style-type: none"> <li>• Return to System Variable</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> <li>• Exit Play (Exit Play, Exit Play Warning, and Exit Warning Message*)</li> </ul> <p>Frame Events supported in Flash (for On Enter and On Leaving):</p> <ul style="list-style-type: none"> <li>• Validation Message</li> <li>• Copy Text*</li> <li>• Clear Text*</li> </ul> <p><b>*Note:</b> In order for the “Copy Text” and “Clear Text” events to work in the exported Flash file, the “<b>Display as Flash Text Field</b>” option must be selected (in the <b>Flash Export Settings</b> dialog) prior to exporting the RapidBuilder file to Flash format.</p> <ul style="list-style-type: none"> <li>• Exit Play (Exit Play, Exit Play Warning, and Exit Warning Message)</li> </ul>	
<b>Global Properties</b>	<p>Global Properties supported in Flash:</p> <ul style="list-style-type: none"> <li>• Suppress Print Screen</li> <li>• Display Full Screen</li> <li>• Border Style</li> <li>• Window Size Horizontal</li> <li>• Window Size Vertical</li> <li>• System Menu Icon</li> <li>• System Variable</li> </ul>	<p>Global Properties not supported in Flash:</p> <ul style="list-style-type: none"> <li>• Prevent Task Switching</li> <li>• Window Controls</li> <li>• Single Sign-on</li> </ul>

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
	<p><b>Note:</b> A global system variable assigned to two RBX files (e.g., launching a second RBX file from the first RBX file and then returning to the last visited frame from the first RBX file) will not work in Flash.</p> <ul style="list-style-type: none"> <li>• Title Bar Style</li> <li>• Title Bar Heading</li> <li>• Align Title Bar Text</li> <li>• Title Bar Color</li> <li>• User-Defined Variables</li> <li>• Global Objects Placement</li> <li>• Allow Audio Interruption</li> <li>• Access Mode</li> <li>• Playback Language</li> <li>• Title Bar Icon</li> <li>• Play RBX/EXM File (EXM files are not supported in Flash).</li> <li>• Play RPE File</li> <li>• Open URL</li> </ul> <p><b>Note:</b> For the “Open URL” event, the web page can only be opened in the same window if the Flash file is launched via an HTML file. In addition, a “mailto” link will only work if the Flash file is launched via an HTML file.</p> <ul style="list-style-type: none"> <li>• Run an External File</li> </ul> <p><b>Note:</b> The “Run an External File” event will only work in a Flash file that is launched via an HTML file.</p>	

RapidBuilder v6.0 Deluxe (Feature List)	Flash (Supported Features)	Flash (Unsupported Features)
<b>Group Properties</b>	Group Properties supported in Flash: <ul style="list-style-type: none"> <li>• Font</li> <li>• Fore Color</li> <li>• Back Color</li> <li>• Exclusive Radio Button</li> <li>• Global</li> <li>• Global ID</li> </ul>	Group Properties not supported in Flash: <ul style="list-style-type: none"> <li>• Exclusive Toggle Hyperlink</li> </ul>

### Audio Support in Flash

The following table lists the audio formats supported in Flash.

Sampling Rates	Channels	Bits Per Sample
11 kHz 22 kHz 44 kHz <b>Note:</b> Other sampling rates will be automatically converted into the rates listed above.	Mono Stereo	16 bit <b>Note:</b> 8 bit will be automatically converted into 16 bit.

As an example, assume we have a file containing audio with a sampling rate of 24,000 Hz at 8 bits per sample. When the file is exported to Flash, the audio would be converted to 44,100 Hz at 16 bits per sample.

The following table outlines the RapidBuilder audio options supported in Flash.

RapidBuilder Audio Option	Audio File Format(s) Supported	Format After Exporting to Flash
<b>Captured Background Sound</b>	Sound is captured in .WAV format. Prior to capturing, the Audio Source and Audio Format are selected from the Audio Settings window. <b>Sampling Rate</b> a) 11,025 Hz b) 22,050 Hz c) 44,100 Hz <b>Channels</b> a) Stereo	All formats are exported to Flash without change except for 8 bit (which is converted to 16 bit).

RapidBuilder Audio Option	Audio File Format(s) Supported	Format After Exporting to Flash
	b) Mono <b>Bits Per Sample</b> a) 8 b) 16	
<b>Sound Track and Imported Audio</b>	.WAV .MP2 .MP3 .AU .ASF	If the audio format of an assigned audio file is not supported in Flash, then it will be automatically converted to a format supported in Flash.  <b>Note:</b> Since the <b>Sound Track Selector</b> object is not supported in Flash, if more than one sound track is present, all tracks will be heard simultaneously.
<b>Background Sound File</b>	.WAV .MP2 .MP3 .AU .ASF	If the audio format of an assigned audio file is not supported in Flash, then it will be automatically converted to a format supported in Flash.  <b>Note:</b> For the <b>"Background Sound Settings"</b> option, the <b>Fade In</b> and <b>Fade Out</b> settings are not supported in Flash.
<b>Recorded Sound Clip</b>	Sound clip is recorded either in .WAV format or .ASF format (if Windows Media Tools is installed).  Prior to recording, the Audio Source and Audio Format are selected from the Audio Settings window.	All formats are exported to Flash without change except for 8 bit (which is converted to 16 bit).

RapidBuilder Audio Option	Audio File Format(s) Supported	Format After Exporting to Flash
Audio File Assigned to a Frame	.WAV .MP2 .MP3 .AU .ASF	If the audio format of an assigned audio file is not supported in Flash, then it will be automatically converted to a format supported in Flash.

## **Additional Notes About Flash Support in RapidBuilder**

The following conditions also apply to RapidBuilder objects in Flash:

- Multiple instance playback is not supported in Flash.
- AVI, .MOV, .MPEG, and .MPG video files with sound are supported. However, .ASF video files are not currently supported in Flash.
- For the **Play RBX** event of a wait object (such as a **Hyperlink**, **Validation Field**, etc.) to work, an .SWF file with the same name as the file assigned in the **Play RBX** option should be present in the same folder. For example, if the file “**F:\My Folder\playrbx.rbx**” is assigned, then the file “**F:\My Folder\playrbx.swf**” should be present.
- For **Instruction Boxes** and **Text Fields**, the following conditions apply:
  - Only True Type fonts are supported. If a font other than True Type is selected, it will show the default font (Arial).
  - Certain fonts (such as Impact) do not support Italics.
  - The open brace character ( { ) is not fully supported in Flash. If a “{” character is present, any text coming before the character will not be shown.
- The same validation action key cannot be assigned to multiple **Validation Fields** and/or **Terminal Objects** on the same frame. You must assign a different validation action key to each.
- For any object with playback or animation settings (e.g., **Video Stage**, **Mouse Plot**, **Drag and Drop** guide lines, **Highlighter** guide lines, etc.), the playback or animation will play according to the frame rate that was specified in the **Flash Export Settings** dialog box.

**NOTE:** The exception to this rule is video files with sound. These files will play synchronously with the sound.
- In a **Highlighter** or **Drag and Drop** object, if the **Guide Line** properties are configured with **Animated** set to **Yes** and **Cycle Colors** set to **No**, then the **Dash** and **Dotted** attributes will be disabled.
- In a **Highlighter** object, the **Rectangle** option in the **Guide Line Style** property is disabled.
- If a **Drag and Drop** object is placed on a frame with a gradient fill applied, only the **From** color of the gradient fill will be displayed.
- For Flash (.SWF) files that have been generated from project (.RPR) files, the following conditions apply:

- Logins, logouts, bookmarking, and progress tracking (of lessons and topics) are only supported on Flash (.SWF) files that are launched via an associated HTML file. Accordingly, when exporting an .RPR file to Flash format in RapidBuilder, the developer must select the **Publish HTML** option in the **Flash Export Settings** dialog box.
- In Netscape, the user must click the appropriate **Hyperlink** or other object in order to log out of the .SWF file and save bookmark data. If the user exits the .SWF file by simply closing the browser window, he/she will not be logged out of the .SWF file, and the bookmark data will not be saved.
- To enable proper updating of progress information, the browser should be configured to check for newer versions of stored pages whenever the file is played. (In **Internet Explorer**, select **Tools | Internet Options**. In the **Internet Options** dialog box, on the **General** tab, click the **Settings** button. In the **Settings** dialog box, under **Check for Newer Versions of Stored Pages**, select the **Every Visit to the Page** option. Click **OK** to close the **Settings** dialog box, and then click **OK** to close the **Internet Options** dialog box).
- The **Progress Report** (generated with the **Progress Button**) will not display the tree feature. Instead spaces will be shown to distinguish lesson and topics.
- Due to Flash limitations, the **Course Navigator** tree is not supported.

### **Required Virtual Memory**

Due to limitations of Flash SDK, the Virtual Memory\* on the user's machine must be increased according to the number of RapidBuilder frames the user wishes to export to Flash format.

**\*NOTE:** Virtual Memory, also known as a swap file (.SWP file), is a portion of the hard drive set aside to use when more random access memory (RAM) is needed. When a file or program is too big for the computer to work within its physical memory, part of the data is stored in the swap file. This virtual storage is divided into segments called pages; each page is correlated with a location in physical memory. When an address is referenced, the page is "swapped" into physical memory; it is sent back to virtual memory when other pages must be called. The file or program runs as if all the data is in physical memory. A hardware device called a memory management unit (MMU) is used to manage virtual memory. The amount of virtual memory required for Flash exporting is outlined below.

<b>Number of Frames to be Exported to Flash</b>	<b>Required Virtual Memory</b>
1 – 100	150 – 200 MB
100 – 300	350 – 400 MB
300 – 400	500 – 550 MB

## **Mouse Pointer Hover Image for Hyperlink in Flash**

If the developer has not specified a custom Mouse Pointer hover image for the Hyperlink, then the default Hyperlink hover image (i.e., the image that appears when the mouse is placed over the Hyperlink during playback in Flash) will be either a **white hand** or an **arrow pointer**:

- If the “**Hide Target Object Mouse Over Image**” capture setting is **not** selected before exporting to Flash, then the Hyperlink hover image in Flash will be a **white hand**. This is the default setting.
- If the “**Hide Target Object Mouse Over Image**” capture setting is selected before exporting to Flash, then the Hyperlink hover image in Flash will be an **arrow pointer**.

**NOTE:** If the developer specifies a custom Mouse Pointer hover image for the Hyperlink (through the “**Mouse Pointer**” property for the “**On Mouse Enter**” action), then this custom hover image will always appear when the mouse is placed over the Hyperlink (regardless of whether the “**Hide Target Object Mouse Over Image**” setting was selected or not selected).

## **Validation Keys Not Supported in Browser Playback**

In a Flash file played through a browser (e.g., Internet Explorer), certain keys are not supported for use as validation keys (i.e., captured keystrokes, frame validation keys, and Validation Field keys) because of browser limitations.

The following key combinations cannot be used as validation keys within a Flash file played through a browser:

- <ALT> + any key
- <ALT> + <SHIFT> + any key
- <ALT> + <CTRL> + any key
- <ALT> + <CTRL> + <SHIFT> + any key
- <CTRL> + any key\*

**\*NOTE:** <CTRL + N> is the only CTRL key combination that can be used as a validation key.

- <CTRL> + <SHIFT> + any key

## Hide and Show Features Supported in Flash

The following table indicates which Hide and Show features are currently supported in Flash.

Source	Action	Target	Event	Pulse	Speed	Sound
Frame	Frame Enter	Text Field Hyperlink Image Draw Objects	Show/Hide Hide/Show Hide Show	On/Off Once	All	Supported
Hyperlink	Single Left Click Single Right Click Frame Enter	Image Self Draw Objects Hyperlink	Show/Hide Hide/Show Hide Show	On/Off Once	All	Supported
Image	Single Left Click Single Right Click Double Left Click Double Right Click Frame Enter	Text Field Self Hyperlink Draw Objects Image	Show/Hide Hide/Show Hide Show	On/Off Once	All	Supported
Draw Objects (excluding Air Brush Object)	Single Left Click Single Right Click Double Left Click Double Right Click Frame Enter	Text Field Self Hyperlink Draw Objects Image	Show/Hide Hide/Show Hide Show	On/Off Once	All	Supported
Text Field	Frame Enter	Self	Show/Hide Hide/Show Hide Show	On/Off Once	All	Supported

## **NOTES**

- The **Air Brush** object is not supported as a target or source.
- If a global object is set as a target, then the configured hide and show effect will be applied on all frames on which the object appears.
- If a **Draw Object** or **Image** is set as the source and **Left Single Click** is set as the action, then the “**Hide/Show Once**” and “**Show/Hide Once**” event-pulse will function like the “**Hide/Show On/Off**” and “**Show/Hide On/Off**” event-pulse.

## **Limitations in Adobe Flash Player 8**

The following limitations exist for Flash files played using Adobe Flash Player 8:

- The corresponding HTML file (which is generated along with the Flash file during exporting) will display a security message dialog box when played in Flash Player 8. Once this dialog box is displayed, the **Open URL** and **Run an External File** events will not work in an HTML browser.
- The **<F5>** validation key will not work in an HTML browser.
- The **Single Right Click** and **Double Right Click** actions will not work.

## **System Variable Support in Flash**

System Variables are supported in Flash for the Frame, Video Stage, Flash Stage, Mouse Plot, Menu Builder, Highlighter, Drag and Drop, Validation Field, Terminal Object, Combo Box, and Hyperlink objects.

Local System Variables are supported as follows:

- Within an RBX File – Allows linking between frames within the .RBX file.
- Within an RPR File – Allows linking between frames within the .RPR file.

Global System Variables are supported as follows:

- Within an RPR and RBX File – Allows linking from an RPR project file to an RBX lesson file and vice versa.

**NOTE:** A Global System Variable assigned to two RBX files (e.g., launching a second RBX file from the first RBX file and then returning to the last visited frame from the first RBX file) will **not** work in Flash.

## **Internal Variables and User-Defined Variables in Flash**

Internal Variables and User-Defined Variables are supported in Flash for the objects and properties listed below.

**NOTE:** If there are any internal variables or user-defined variables used within Text Fields or Instruction Boxes, then you must select the “**Display as Flash Text Field**” option (in the **Flash Export Settings** dialog box) prior to exporting the file to Flash. Note that Text Fields and Instruction Boxes will only support the use of internal variables and user-defined variables in Flash if they are exported as Flash Text Fields. However, in a Text Field or Instruction Box exported as a Flash Text Field, the text will **not** support hotwords, multiple fonts or colors, inline graphics, baselines, strikethrough, underlining, bullets/numbering, or line spacing.

### **Text Field**

- Hotword Text
- Hotword Caption Text

### **Instruction Box**

- Caption Text
- Hotword Text
- Hotword Caption Text

### **Hyperlink**

- Caption Text
- Validation Message
- Validation Error Message
- Exit Play Warning Message

### **Radio Button**

- Caption Text

### **Check Box**

- Caption Text

### **Playback Control Button**

- Caption Text

### **Combo Box**

- Items
- Exit Play Warning Message

### **Validation Field**

- Validation Message
- Validation Error Message
- Attempts Message
- Hint Message

### **Frame**

- Validation Message
- Validation Error Message
- Exit Play Warning Message
- Attempts Message
- Hint Message

### **Image**

- Validation Message
- Validation Error Message

### **Animated GIF**

- Validation Message
- Validation Error Message

## **“Frame Rate” Option when Exporting to Flash (SWF)**

In RapidBuilder, when exporting to Flash (SWF), there is a “**Frame Rate**” option available in the “**Flash Export Settings**” dialog box. In the “**Frame Rate**” box, enter the frame rate value, which indicates the number of frames per second at which the Flash (SWF) file will play. The default value is 12. You can enter any value from 1 to 30. If you enter a value higher than 30, it will assume a default of 12. Keep in mind that the higher the Frame Rate value, the faster the playback will be. Similarly, the lower the Frame Rate value, the slower the playback will be.

**NOTE:** The “**Flash Export Settings**” dialog box also contains a **Non-Interactive** check box, which should be enabled when exporting a non-interactive RapidBuilder file (i.e., a file without captured validation information) to Flash format. If the **Non-Interactive** option is selected prior to exporting the RapidBuilder file to Flash format, it will assume a default frame rate of 12, thus ensuring that the non-interactive Flash file will play at the appropriate speed. If the **Non-Interactive** option is not selected prior to exporting the file to Flash format, the generated Flash file may play back at a faster speed than the corresponding RapidBuilder file. This is why it is important to select this option when exporting non-interactive RapidBuilder files to Flash.

## Optimizing Flash File Size and Clarity

The “**Flash Export Settings**” dialog box contains two options for optimizing the file size or clarity of the generated Flash file. Prior to exporting the RapidBuilder file to Flash, the developer may select one of the following radio buttons:

- **Optimize for File Size** – Minimizes the size of the generated Flash file. This option works best where typed text is not being played back.
- **Optimize for Clarity** (the default option) – Maximizes and sharpens the clarity of the generated Flash file, but the size of the file will be slightly increased.

**NOTE:** If the RapidBuilder file that you are exporting contains deleted frames (marked with red X's), the size of the exported Flash (.SWF) file will be slightly increased. To minimize the size of the .SWF file, it is recommended that you purge the deleted frames (by selecting **Edit | Purge Frames** on the **Menu Bar**) before exporting the RapidBuilder file to Flash format. (If you wish, you can preserve the RapidBuilder file with the deleted frames by creating a backup copy before purging).

## “Global Settings” Option for Area Selection

The “**Flash Export Settings**” dialog box contains a “**Global Settings**” radio button under **Area Selection**. If the “**Global Settings**” radio button is selected prior to exporting the RapidBuilder file to Flash format, each frame in the generated Flash file will be cropped according to the dimensions (i.e., height and width) specified in the “**Window Size Horizontal**” and “**Window Size Vertical**” properties within the **Global Properties** window.

## “Publish HTML” Option

In RapidBuilder, when exporting to Flash (SWF), there is a “**Publish HTML**” option (selected by default) available in the “**Flash Export Settings**” dialog box. By default, when the exporting process begins, RapidBuilder will create an HTML file in the same directory where the SWF file is created. The HTML file will contain code to launch the Flash file that is created.

By default, the “**Publish HTML**” option specifies an HTML file name that is the same as the file name the developer enters for the SWF file.

**NOTE:** The first character in the HTML name cannot be a numeric character or any other special character. If the first character in the HTML name is anything other than a letter, it will cause a runtime error during playback in the browser. Accordingly, if an invalid HTML file name is entered in the “**HTML Name**” text box, an “**Invalid File Name**” error message will be displayed.

## Browser Playback Options

The “**Flash Export Settings**” dialog box contains a couple of available settings to customize the playback of the Flash file in the browser window:

- **View Playback in Full Screen** – If this option is selected, the playback of the resulting Flash file will take place in the full screen view of the browser window. The full screen view will be applied in the browser only for the duration of Flash file playback. This option is selected by default.
- **Center Playback in Browser Window** – If this option is selected, the browser window containing the Flash file playback will appear in the center of the screen (rather than the top-

left corner of the screen). This option is useful for a Flash file that was created in a low resolution and will be played back in a higher resolution. This option is deselected by default.

## **Text Field/Instruction Box Export Options**

RapidBuilder includes several options for determining how the **Text Fields** and/or **Instruction Boxes** within the file will be exported to Flash. Within the “**Flash Export Settings**” dialog box, the developer may select one of the following options (for both Text Field and Instruction Box):

- **Default** – The Text Fields/Instruction Boxes within the file will be exported to Flash as regular objects.
- **Display as Image** – The Text Fields/Instruction Boxes within the file will be exported to Flash as images. This exporting option will produce sharper, smoother text (displayed with picture-like quality) within the exported Flash file.

**NOTE:** In a Text Field or Instruction Box exported to Flash as an image, the text will **not** support scrolling.

- **Display as Flash Text Field** – The Text Fields/Instruction Boxes within the file will be exported to Flash as Flash Text Fields, which support the use of internal variables and user-defined variables within the exported Flash file. Note that Text Fields and Instruction Boxes will only support the use of internal variables and user-defined variables in Flash if they are exported as Flash Text Fields.

**NOTE:** In a Text Field or Instruction Box exported to Flash as a Flash Text Field, the text will **not** support hotwords, multiple fonts or colors, inline graphics, baselines, strikethrough, underlining, bullets/numbering, or line spacing.

## **Text-to-Speech Functionality in Flash**

Text-to-Speech functionality is supported in Flash. A RapidBuilder Text Field or Instruction Box object with Text-to-Speech functionality configured may be exported and played back in Flash format.

**NOTE:** During playback of an exported Flash file, on any frame/screen that contains a Text Field or Instruction Box with “Automatic” Text-to-Speech configured, the playback will remain on that frame/screen until the Text-to-Speech audio has completed (even if the frame does not contain any “wait” objects).

Please note that there are several limitations with respect to Text-to-Speech functionality in Flash. These limitations are as follows:

- The “**Highlight text (read along) at playback**” option (which may be enabled within RapidBuilder’s **Speech Settings** dialog) is not supported in Flash.
- If a Text Field or Instruction Box object has one or more user-defined variables present within its text content, then the Text Field/Instruction Box will not support Text-to-Speech functionality in Flash.
- If a Text Field or Instruction Box object is set as a Global object and has one or more internal variables present within its text content, then the Text Field/Instruction Box will not support Text-to-Speech functionality in Flash.
- If a RapidBuilder file containing Text-to-Speech fields is exported to Flash, the associated audio will be embedded within the exported Flash file. Note that the presence of this

embedded audio will result in a larger size for the Flash file (compared to the same Flash file without any Text-to-Speech fields). The file size is proportional to the data entered in the Text-to-Speech fields within the file.

- During playback of the Flash file, the embedded Text-to-Speech audio will be streamed automatically. Note that the voice type (e.g., Microsoft Sam) selected for each Text-to-Speech field by the developer cannot be changed by the end user during playback of the Flash file.

## **Flash-based SCORM Courses Created with RapidBuilder**

RapidBuilder is a SCORM-compliant technology. The **Sharable Content Object Reference Model (SCORM)**, published by the Advanced Distributed Learning (ADL) project, is a collection of standards and specifications (adapted from multiple sources) that are used to enable interoperability, accessibility and reusability of web-based learning content.

RapidBuilder supports **SCORM 2004** (the most current version of SCORM) as well as **SCORM v1.2** and **SCORM v1.1** (previous versions of SCORM that are still widely used). A learning content file that complies with the SCORM specifications can be easily deployed and managed using any Learning Management System (LMS) that supports SCORM (including XStream's own web-based XStream LMS). For the purposes of SCORM, an LMS is any system for managing and deploying e-learning content.

A SCORM course contains learning content in the form of **Sharable Content Objects (SCOs)**, which are modular objects that can be reused in any SCORM course. A SCO created in RapidBuilder consists of an .HTM file (for accessing SCO functionalities), a RapidBuilder content file (containing the actual learning content), and a metadata .XML file (containing information for developers' reference).

A SCORM course created with RapidBuilder may contain RBX-based SCOs, Flash-based SCOs, XML-based SCOs, or any combination of these. In addition, third-party SCOs (created using other SCORM-compliant authoring tools) may be imported into the SCORM course.

In addition to creating new Flash/XML-based SCORM courses and SCOs, RapidBuilder provides several conversion options:

- An RBX-based SCORM course may be saved as a Flash/XML-based SCORM course.
- An .RPR project may be saved as an RBX-based or Flash/XML-based SCORM course.
- An individual .RBX file may be saved as an RBX-based or Flash/XML-based SCO.

## **Tracking Flash (SWF) Files with XStream LMS**

Administration and tracking of Flash (.SWF) files may be accomplished with **XStream Learning Management System (LMS)**, which is XStream's secure, wide-ranging and completely web-based LMS module within XStream's hosted web environment and digital workspace.

XStream LMS works with XStream's RapidBuilder, RapidExam, Performance Analyzer, and RapidGuide technologies. The LMS includes full capabilities for registering, tracking, and reporting on learning content files created with RapidBuilder, RapidExam, Performance Analyzer, and RapidGuide. The LMS module can also schedule, track, and report on Offline Events of all types (such as instructor-led training sessions, meetings, workshops, seminars, conferences, trade shows, etc.), and it provides many other features and capabilities, including e-mail notifications, extensive reporting capabilities, self-registration capabilities, learning paths, course catalogs, prerequisite definitions, bookmarking capabilities, offline exam generation, interface

customization, archiving capabilities, 508 compliance, multi-language support, optional communication and collaboration capabilities, and more.

XStream LMS includes the capability of tracking Flash (.SWF) files that have been generated from project (.RPR) files in RapidBuilder.

#### **NOTES**

- The information tracked for Flash (.SWF) files is the same as that tracked for project (.RPR) files.
- Bookmarking, progress tracking, logins, and logouts are only supported on Flash (.SWF) files that are launched via an associated HTML file. Accordingly, when exporting an .RPR file to Flash format in RapidBuilder, the developer must select the **Publish HTML** option in the **Flash Export Settings** dialog box.
- To enable proper updating of progress information, the browser should be configured to check for newer versions of stored pages whenever the file is played. (In **Internet Explorer**, select **Tools | Internet Options**. In the **Internet Options** dialog box, on the **General** tab, click the **Settings** button. In the **Settings** dialog box, under **Check for Newer Versions of Stored Pages**, select the **Every Visit to the Page** option. Click **OK** to close the **Settings** dialog box, and then click **OK** to close the **Internet Options** dialog box).