PASSPORT Object Toolkit
VERSION 2004

PASSPORT Object Interface and Object Toolkit

The PASSPORT Object Interface of PASSPORT PC TO HOST and PASSPORT WEB TO HOST is recommended for client-based host integration projects that require the use of Microsoft Windows. The PASSPORT Object API uses the 3270, 5250 or UNIX host screen information as a fast, non-intrusive, inexpensive method of interfacing with host applications.

The PASSPORT Object API can also be used to support existing PC applications written for the Attachmate EXTRA!® Objects®. In doing so, the Zephyr PASSPORT terminal emulation can be used as a low-cost replacement for the Attachmate EXTRA! terminal emulation.

The PASSPORT Object Interface is an ActiveX COM object called PASSOBJ.DLL. There is a hierarchy of objects used for host access which includes Sessions, Session, Screen, OIA, Area, Toolbars, Toolbar, QuickPads and QuickPad. The COM object can be used with any programming language that can use ActiveX COM objects, including C++, Visual Basic, VB Script and Java Script. The PASSPORT Object Toolkit provides a sample VB Script application and source code.

When migrating an existing Attachmate EXTRA!® Objects® application to Zephyr's PASSPORT, the only change necessary is to change the name of the object used in the CreateObject () method. An Attachmate EXTRA!® application uses CreateObject ("EXTRA.SYSTEM"). For PASSPORT you would use CreateObject ("PASSPORT.SYSTEM"). The Area object can be used to select parts of the host screen, and the copy and paste methods can be used to copy data from one host session to another. The PASSPORT Object Interface does not have any event driven functions.

When to Use: The PASSPORT Object Interface is recommended when you need to integrate 3270, 5250 or UNIX host applications with other Microsoft Windows applications, when you need to run existing Attachmate OLE automation applications with the Zephyr PASSPORT terminal emulation, or when you need to convert and run complex Attachmate EXTRA!® macros for use with the Zephyr PASSPORT terminal emulation.

A sample web application is provided in the PASSPORT Object Toolkit. This web application contains hyperlinks on a web page. Each hyperlink corresponds to an object method or property that executes a VB Script demonstrating its use. This sample application can be used as a starting point for your own web application.

SYSTEM REQUIREMENTS

- *PASSPORT PC TO HOST or PASSPORT WEB TO HOST terminal emulation software*
- *TN3270, TN5250, VT100, VT220, SCO ANSI or Wyse 60 connection to IBM zSeries (S/390), IBM iSeries (AS/400) or Unix host*
- *Windows XP, 2000, NT, 98 or 95 client*
- *Any programming or scripting language that supports the Microsoft object interface*

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The PASSPORT Object Interface includes a system manager object, a collection of sessions, a session object, screen object, area object and OIA object. Also included are keypad and toolbar objects for complete compatibility with the Attachmate EXTRA!® OLE automation support interface. Complete documentation for the object interface is included with the PASSPORT Object Toolkit.

PASSPORT API Objects, Methods and Properties

Manager Object

This is the top-level object providing access to all PASSPORT objects.

PROPERTIES

ActiveSession	Returns the currently active Session object
Application	Returns the System object
DefaultFilePath	Sets or returns the default path specification as a string
FullName	Returns a string specifying the path and filename
Name	Returns the name of the object as a string
Parent	Returns the parent of the specified object
Path	Returns the path of the PASSPORT executable file
Sessions	Returns a collection of Session objects that are open
TimeoutValue	Sets or returns the number of milliseconds used by Wait
Version	Returns a string identifying the version of PASSPORT.

METHODS

Quit	Closes all PASSPORT sessions
ViewStatus	Starts the Status program

Sessions Object

This object is a collection object consisting of individual Session objects.

PROPERTIES

Application	Returns the System object
Count	Returns the number of items in the collection of objects
Parent	Returns the parent of the specified object

METHODS

CloseAll	Closes all active sessions
Item	Returns an element in the collection
JumpNext	Returns the next open session and gives it the focus
Open	Opens and returns a session, adds it to Sessions collection

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Session Object

This object provides access to host data and access to PASSPORT functions. The Session object contains sub-objects, including the Screen object.

PROPERTIES

Application	Returns the System object
Connected session.	Returns the connection status, also connects/disconnects a
FullName	Returns a string specifying the path and filename
Height	Returns or sets the height of the session window in pixels
Keyboard	Locked Returns or sets the keyboard input state
Left	Returns or sets the horizontal position of the session in pixels
Name	Returns the name of the object as a string
Parent	Returns the parent of the specified object

Path	Returns the path of the session file
Saved	Returns the save status of the session
Screen	Returns the Screen object associated with the session
Top	Returns or sets the vertical position of the session in pixels
Type	Returns a value indicating session type - 3270, 5250, VT, SCO ANSI
Visible	Returns visibility status, or sets visibility
Width	Returns or sets the width of the session window in pixels
WindowState	Returns or sets the state of the session window - normal, max, min

METHODS

Activate	Makes the specified session active window
Close	Closes the session
NavigateTo	Execute a PASSPORT macro
ReceiveFile	Receives a file from the host
Save	Saves the current settings of the session
SaveAs	Saves a copy of the specified session to a new file
SendFile	Sends a file from the PC to the host

Screen Object

This object provides access to the contents of the host screen presentation space.

PROPERTIES

Application	Returns the System object
Col	Returns or sets the column position of the cursor.
Cols	Returns the number of columns in the presentation space
Name	Returns the name of the object as a string
OIA	Returns an OIA object
Parent	Returns the parent of the specified object
Row	Returns/sets the row position of the cursor presentation space
Rows	Returns the number of rows in the presentation space
Selection	Returns an Area object representing currently selected area
Updated	Returns is the Screen object has been updated

METHODS

Area	Returns an Area object with the defined coordinates
Copy	Copies the select text to the Clipboard
Cut	Removes selected text from the session and stores it in the Clipboard
Delete	Deletes the current selection.
GetString	Returns the text from the specified screen location
MoveRelative	Moves the cursor a number of rows/columns from current position
MoveTo	Moves the cursor to the specified location
Paste	Pastes Clipboard text at the current position or over the current selection
PutString	Puts text in the specified location on the screen
Search	Returns an Area object with the text specified in the search
Select	Selects the area defined by the coordinates and returns an Area object
SelectAll	Selects the entire screen and returns an Area object
SendInput	Sends the specified text to the Screen object simulating incoming data
SendKeys	Sends keystrokes to the host including function keys
WaitForCursor	Waits until the cursor is at the specified location
WaitForCursorMove	Waits until the cursor has moved the specified number of rows/cols
WaitForKeys	Waits until the user presses a key or for the specified time to elapse

WaitForStream	Waits until the specified text appears in the host data stream
WaitForString	Waits until the specified text appears on the screen
WaitHostQuiet	Waits for the host to not send data for specified amount of time

Area Object

This object provides access to a defined area of the screen.

PROPERTIES

Application	Returns the System object
Bottom	Returns or sets the ending row of the Area object
Left	Returns or sets the screen column where the area begins
Parent	Returns the parent of the specified object
Right	Returns or sets the column, specified as an integer, where Area ends
Top	Returns or sets the row where the area begins
Type	Returns or sets type of Area coordinates - top, left, bottom, right
Value	Returns or sets the text in the Area

METHODS

Copy	Copies the select text to the Clipboard
Cut	Removes selected text from the session and stores it in the Clipboard
Delete	Deletes the current selection
Paste	Pastes Clipboard text into the object
Select	Selects the object

OIA Object

This object provides host connection and status information that is contained in the Operator Information Area (OIA) of the host screen.

PROPERTIES

ConnectionStatus	Indicates the status of the host connection
ErrorStatus	Returns an integer indicating any error condition
Updated	Returns if the OIA object has been updated
Value	Returns the text in the OIA Area
Xstatus	Returns an integer indicating the status of the XClock

ZEPHYR

Zephyr specializes in TN3270E, TN5250E, VT100, VT220 and SCO ANSI host access solutions for Microsoft Windows. Whether using our PASSPORT desktop or browser-based terminal emulation, or ActiveX and .NET legacy integration, our products offer fast, reliable connectivity to legacy applications using IP-based communication.

Our impressive client list includes many notable U.S. and international firms and organizations, including Canon, Cessna, Daimler Chrysler, Hormel, Hugo Boss, Merrill Lynch, Nationwide Insurance, Otis Elevator, Saks, State of California and United Space Alliance.

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