

Send Format

Radix	Escape	Example	Remarks
String	\s(...)	OK \s(OK)	Default, no escape needed. [Explicit Default Radix] to change default.
Character	\c(...)	\c(O)\c(K) \c(O K)	Use \\ to send a backslash '\'. Use \) to send a closing parenthesis ')'. C-style.
Unicode	\U+ \U(...) \u	\U+20AC \U(20AC) \u20AC	C-style.
ASCII mnemonic	<...>	<CR><LF> <TAB>	Use \< to send an opening angle bracket '<'. C-style.
Hexadecimal	\h(...) \0x... \x...	\h(4F 4B) \h(4F4B) \0x4F\0x4B \x4F\x4B	C-style.
Decimal	\d(...)	\d(79 75)	
Octal	\o(...) \0...	\o(117)\o(113) \0117\0113	
Binary	\b(...) \0b...	\b(01001111) \0b01001111	

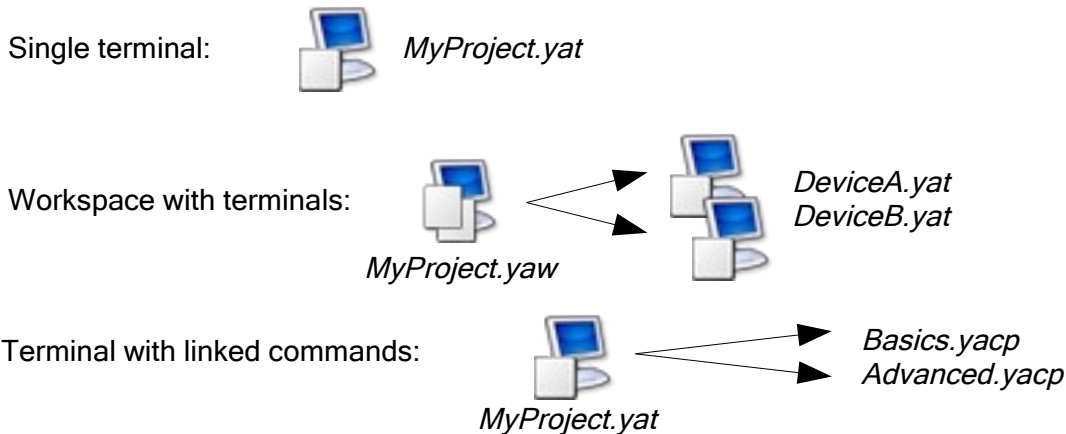
Note the [Enable <...> and \... Escapes on [Send Text|File]] setting available in context menu and [Terminal → Settings... → Advanced... → Send].

Keywords

Text	Remarks
Send something, then clear monitor!(Clear)	
Send something!(Delay(1000), then send delayed Send a line, then delay before the next line!(LineDelay(1000)) Send a line, then delay before the next line!(LineInterval(1000)) Send a line, then delay before the next line!(LineInterval)	Delay 1000 ms within line. Delay 1000 ms at the end of the line, after EOL. Delay such a line interval of 1000 ms results. Delay according to value in advanced settings.
Send something multiple times!(LineRepeat(10)) Send something infinitely!(LineRepeat(-1))!(LineInterval(1000))	Repeat 10 times, as fast as possible. Repeat infinitely, with a line interval of 1000 ms.
Send content without appending EOL!(NoEOL)	Suppress appending EOL (End-Of-line).
Send a line!(EOL), then send another line	Inject additional EOL.
Send time information, e.g. now = !(TimeStamp)	Inject time stamp. Format according to [View → Format Settings...].
!(Port(10))	On-the-fly change of serial COM port.
!(PortSettings(19200, 7, 1))!(Baud(19200))!(FlowControl(1))	On-the-fly change of serial port settings.
!(RtsOn Off Toggle) !(DtrOn Off Toggle)	On-the-fly change of serial port control signals.
!(FramingErrorsOn Off Restore)	Serial COM port error handling.
!(OutputBreakOn Off Toggle)	Serial COM port break handling.
!(ReportID(1))	On-the-fly change of USB Ser/HID report ID.

Actions and Shortcuts

Scope	Action	Shortcut	Action	Shortcut
Terminal	Edit Text	Alt+E	Send Text Send Text w/o EOL	F3 Ctrl+F3
	Toggle Keep Text	Ctrl+Shift+K	Toggle Send Imme.	Ctrl+Shift+I
	Select File	Alt+I	Send File	F4
	Open/Start Close/Stop	Ctrl+Shift+O Ctrl+Shift+C	Break Operation	Ctrl+B
	Toggle Formatting	Ctrl+Shift+T	Settings...	Ctrl+Shift+S
Predefined	Page	Ctrl+<i>	Define...	Ctrl+Shift+D
	Page Next Page Previous	Ctrl+Alt+→ Ctrl+Alt+←	Send Copy	Shift+F<i> Ctrl+Shift+F<i>
Monitor	Clear All Terminals Clear	Ctrl+L Ctrl+E	Refresh All Terminals Refresh	F5 Ctrl+F5
	Select All Select None	Ctrl+A Ctrl+N	Copy to Clipboard Save to File...	Ctrl+C Ctrl+T
	Find	Ctrl+F	Print...	Ctrl+P
Find	Case Sensitive Whole Word Regular Express.	Alt+C Alt+W Alt+E	Next Previous All	Alt+[+Shift]+N Alt+[+Shift]+P Alt+[+Shift]+L
Log	On Off	Ctrl+Shift+N Ctrl+Shift+F	Settings...	Ctrl+Shift+L
Window	Automatic Layout Tile Horizontal Tile Vertical	Alt+Shift+A Alt+Shift+H Alt+Shift+V	Cascade Minimize Maximize	Alt+Shift+C Alt+Shift+I Alt+Shift+X
Workspace	New Terminal... Open Terminal	Ctrl+N Ctrl+O	Save Terminal Save All Terminals Save Workspace	Ctrl+S Ctrl+Shift+A Ctrl+Shift+W
	Close Terminal	Ctrl+F4	Toggle Terminals	Ctrl+TAB
Application	Exit	Alt+F4	Always On Top	Alt+Shift+T
Help	Contents...	F1		



Quick Reference

Send triggers a send request, the actual sending happens asynchronously.
Receive handles available message(s); or waits for message(s) until a 'ReceiveTimeout' occurs.

Method Group	Functionality
Send[Multiple]	Sends [multiple] text including the configured EOL sequence. Does not wait for a response.
[Send[Multiple]And]Receive	Returns the available message(s); or waits for message(s) until a 'ReceiveTimeout' occurs.
[Send[Multiple]And]ReceiveAll	Receives all messages until a 'ReceiveTimeout' occurs.
[Send[Multiple]And]ReceiveMatch[es]	Matches the available message(s); or waits for message(s) until a 'ReceiveTimeout' occurs.
[Send[Multiple]And]Receive[Matches]For	Receives messages for the specified duration.
[Send[Multiple]And]Receive[Matches]Until	Receives messages until the specified terminating message.
[Send[Multiple]And]Receive[Matches]UntilWithin	Receives until the terminating message within the specified interval.
[Send[Multiple]And]Receive[Match[es]]Within	Expects message(s) within the specified interval.
SendFor[AndReceiveAll]	Sends text for the specified duration.
SendWithoutEOL	Sends text without appending the EOL sequence.
SendXOn XOff	Sends an XOn XOff control byte.

Examples:

```
void SendAndReceive(      string send,      out string received);
void SendAndReceiveMatch( string send,      string expected, out string received);
void SendAndReceiveMatch( string send,      Regex expected,  out string received, out Match receivedMatch);
void SendAndReceiveMatches(string send, IEnumerable<Regex> expected, out string[] received, out Match[] receivedMatches);
```

Methods provide overloads for **string** as well as **Regex** and **Match** objects.
Methods provide overloads omitting options as well as **out** parameters.
Methods are available with the **implicit = active terminal** as well as **explicit terminal** programming model:

```
void SendAndReceiveMatch(      string send, string expected);
void SendAndReceiveMatch(int terminalId, string send, string expected);
```

All methods are available with **exception handling** as well as **success flag** result indication:

```
void __SendAndReceiveMatch(string send, string expected);
bool TrySendAndReceiveMatch(string send, string expected);
```

ILog

Method/Property/Type	Functionality
<code>void Create();</code> <code>void Create(string scriptRevision);</code> <code>void Create(string scriptRevision, string fileNameOrPath);</code> <code>void Create(string fileNameOrPath, bool appendTimeStampToFileName);</code>	Creates a log file.
<code>void WriteLine(LogLevel logLevel, string message);</code> <code>void WriteLine(LogLevel logLevel, string format, params object[] args);</code>	Log a (formatted) text line.
<code>LogLevel { Fatal = 1, Error = 10, Warning = 100, Info = 1000, DbgInfo = 10000 }</code>	Log level values.
<code>LogLevel LogLevelThreshold { get; set; }</code>	The level that shall be logged.
<code>bool ForwardLogDataToScriptEngineDialog { get; set; }</code>	Log content is also shown to user.
<code>void Close(int result);</code>	Closes the log file.

IUser

<code>void WriteLine(string message);</code> <code>void WriteLine(string format, params object[] args);</code>	Write a (formatted) text line.
<code>void ClearOutput();</code>	Clears the user output.
<code>void Beep();</code>	Plays a system beep.
<code>double InputValue(string message);</code>	Requests a value from user.
<code>string InputText(string message);</code>	Requests a text from user.

See [Albatros-UserDocumentation.pdf] for introduction, HowTo's and best practices.
See [Albatros-ScriptInterfaceReference.chm] for details and complete list of methods.
Search contents of [AlbatrosScript.zip] for usage examples and additional information.

Albatros

YAT with Scripting

IConnection

Method/Property	Functionality
<code>void Open();</code> <code>void Close();</code>	Opens/starts the connection of the terminal. Closes/stops the connection of the terminal.
<code>bool IsStarted();</code> <code>bool IsOpen();</code> <code>void WaitUntilIsOpen();</code>	Returns whether the connection has been started or is open. Waits until the connection has opened.
<code>void GetActiveSettings(</code> <code>SerialSettings settings);</code> <code>NetworkSettings settings);</code> <code>USBSettings settings);</code>	Gets the settings of the connection.
<code>void ChangeActiveSettings(</code> <code>SerialSettings settings);</code> <code>NetworkSettings settings);</code> <code>USBSettings settings);</code>	Changes the settings of the connection.
<code>void Break();</code>	Breaks all currently ongoing operations, e.g. sending a file.
<code>bool IsSending();</code> <code>bool IsReceiving();</code> <code>void WaitWhileIsSending();</code> <code>void WaitWhileIsReceiving();</code>	Indicates whether sending or receiving is currently ongoing. Waits while sending or receiving is ongoing, i.e. until 'IsSending()' or 'IsReceiving()' no longer returns 'true'.
<code>bool HasAvailable();</code> <code>int GetAvailableCount();</code> <code>int PeekAvailable(out string available);</code>	Get information on the messages available for the script.
<code>int ClearAvailable();</code>	Clears all messages available.
<code>bool AutoClearAvailableOnSend { get; set; }</code>	Configures automatic clear of available messages on send.
<code>int ReceiveTimeout { get; set; }</code> <code>void ResetReceiveTimeout();</code>	The time until a receive time-out occurs, in milliseconds. 0 to switch time-out off. Reset to 'DefaultReceiveTimeout'.
<code>bool AutoScriptIOLog { get; set; }</code>	Configures logging of the script's send and receive calls.

<code>int ActiveId { get; }</code>	Gets the ID of the active terminal.
<code>int[] AvailableIds { get; }</code>	Get the IDs of the available terminals.
<code>int AvailableCount { get; }</code>	Get the number of the available terminals;.
<code>void Open(string portName);</code> <code>void Open(SerialPortSettings settings);</code> <code>void Open(TCPIPClientSettings settings);</code> <code>void Open(TCIPIServerSettings settings);</code> <code>void Open(TCIPIAutoSocketSettings settings);</code> <code>void Open(USBSerHIDSettings settings);</code>	Creates or opens a terminal with given settings.
<code>void GetActiveSettings(out TerminalSettings settings);</code>	Gets the settings of the terminal.
<code>void ChangeActiveSettings(TerminalSettings settings);</code>	Changes the settings of the terminal.
<code>void Close();</code>	Closes the terminal.

ITerminal

<code>void Wait(int milliseconds);</code> <code>void Wait(TimeSpan timeout);</code>	Suspends the script for the specified time.
<code>bool ControlFlag { get; set; }</code>	Lets the user control the script.
<code>bool StopOnErrorFlag { get; set; }</code>	Lets the user configure whether to stop the script in case of an error; or continue.
<code>void Exit();</code>	Exits the script immediately.

IScriptControl

<code>//css_import .\SomeMoreCode.cs;</code>	Import code files, same as #include in C/C++.
<code>//css_reference .\SomeAssembly.dll;</code>	Refer to additional .NET assemblies.
<code>//css_resource .\SomeForm.resx, .\Project.SomeForm.resources;</code>	Handle Visual Studio Designer generated resources.
<code>//css_searchdir ..\Assemblies;</code>	Alternative to using relative paths in directives above.

CS-Script