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SimpleTerm Gold - V5.7

Release Notes

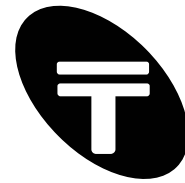
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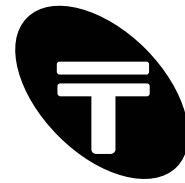
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1 Copyright Notice, Acknowledgements

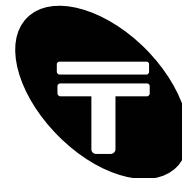
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2 Introduction

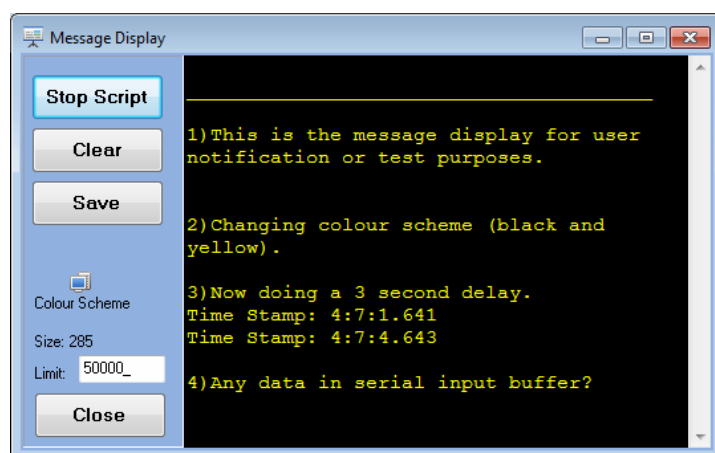
Thanks to all our customers for feedback and our beta testers for helping with v5.7 of SimpleTerm Gold - the leading serial port analysis and test tool. Here is a shortened list of the changes. So what's new in v5.7?

2.1 Modernised, clean GUI

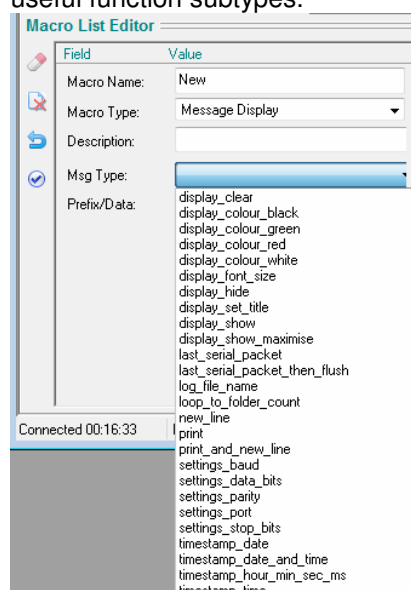
Fresh new look with new icons, text reorganisation and dialog boxes.

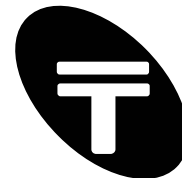
2.2 New "Message Display" window

Make use of the new Message Display window for enhanced test automation, time stamping support and general user notification use via the Macro List / Scripting feature.



New "Message Display" macro type that uses the "Message Display" window with a collection of useful function subtypes.

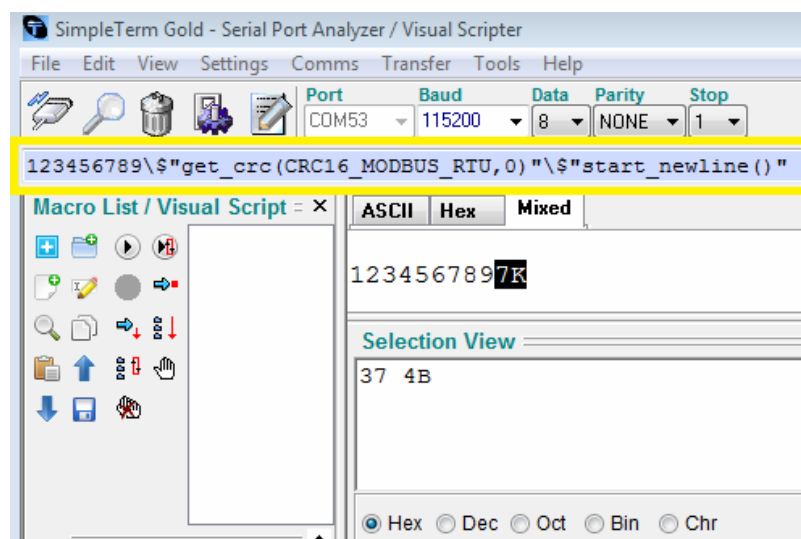




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2.3 New in-line scripting feature

Powerful in-line functions and expressions can now be embedded inline in the "Send Data" field for the "Send Data Sequence" macro type to create complex sequences or protocol packets that even combine prompted user input and auto calculated CRC checksums. This provides the ability to generate random or sequential test data. This feature can be used in the macro list too for the "Send Data Sequence" macro type.



As seen above in the Quick Entry Pane, anything as `\$\"expression\"` where *expression* is the in-line scripting function such as `get_crc(type, dataoffset)`.

To try - insert the following in the Quick Entry Pane and press the Send button.
`123456789\$\\"get_crc(CRC16_MODBUS_RTU,0)\"$\\"start_newline()\"`

or

`Temperature to set is:\$\\"get_text('Please tell me setpoint e.g. 22')\";`

or

`0x\$\\"char_to_hex(var_char_d)\"$\\"var_char_d+=1\"`

CRC_TYPE can be:

`CRC8_DOW8, CRC16_MODBUS_RTU, CRC16_ARC,
CRC16_DNP, CRC16_CCITT_XMODEM,
CRC16_CCITT_FFFF, CRC16_CCITT_1D0F, CRC32`

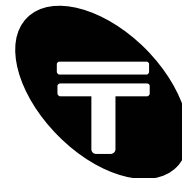
Following functions are also available for advanced test use:

`rand_char()` or `rand_dec()` or `rand_hex()` or e.g. use
`char_to_hex(var_char_x)` where `var_char_x` is an 8-bit variable and one
of `var_char_a`, `var_char_b`, `var_char_c` or `var_char_d`

Operations on variables:

Following simple operations on the (8-bit) variables exist.

`var_char_a=1` (assign 1 as value of `var_char_a`)



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```
var_char_a++      (increment  var_char_a by 1)
var_char_a--      (decrement  var_char_a by 1)
var_char_a+=2     (increment  var_char_a by 2)
var_char_a-=4     (subtract   var_char_a by 4)
var_char_a*=2     (multiply   var_char_a by 2)
```

e.g.

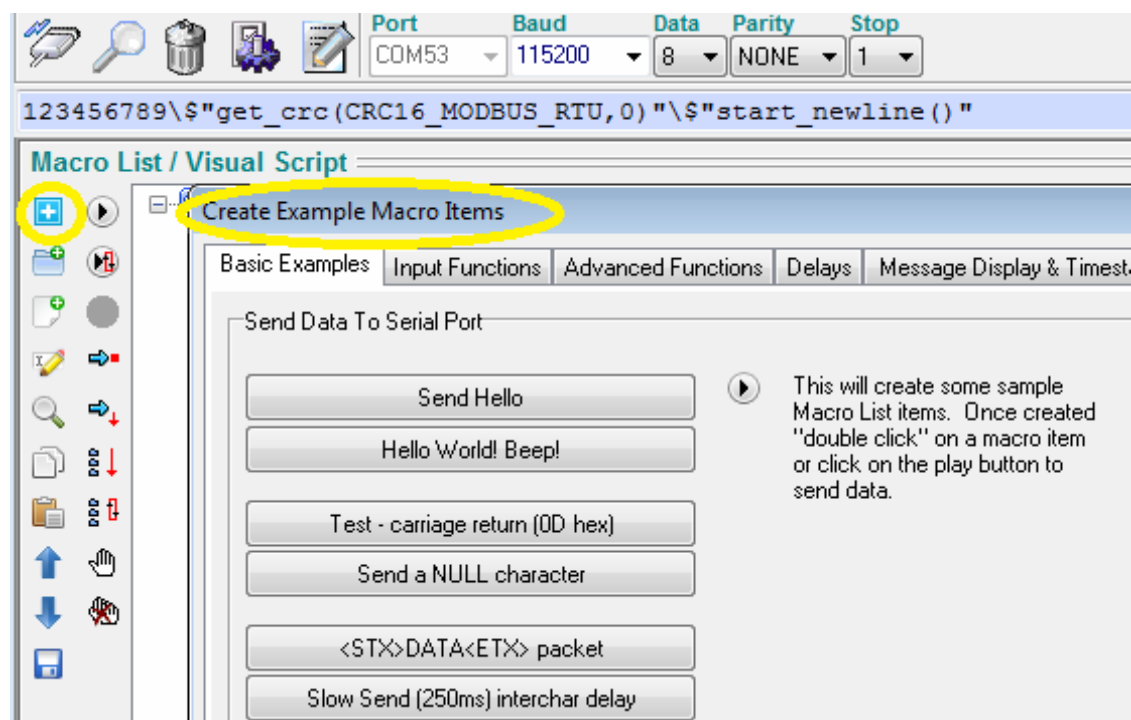
Increment Variable A "\$var_char_a++"

Other functions:

start_newline() - forces the start of new data displayed on the communication screen with a new line.

2.4 New Macro List Examples Creator

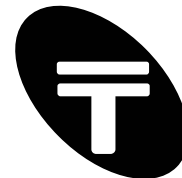
Busy? Don't know how powerful SimpleTerm Gold is? With so many features in the latest version use the new [+] button in Macro List pane. This is an easy way to quickly create example macros as a starting point for your test scripts or to see how things are done.



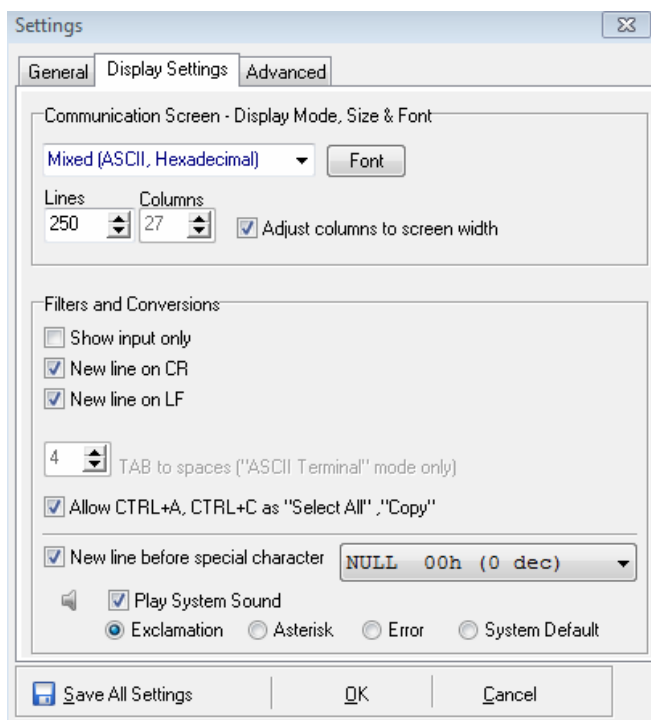
2.5 "New line before special char" + Play System Sound action

Separate data shown within the communications screen based on a pre-configured "special char". You can also action system sounds for audible feedback.

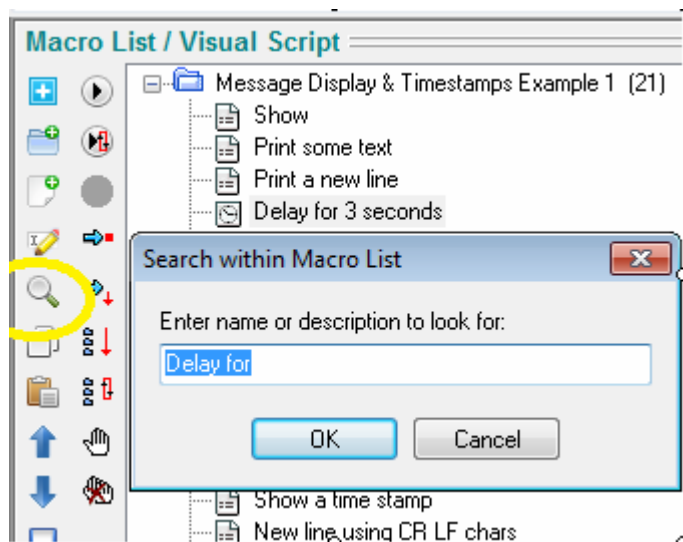
See application "Settings->Display Settings"



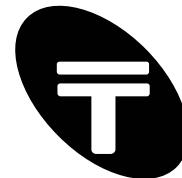
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2.6 Macro List Search facility



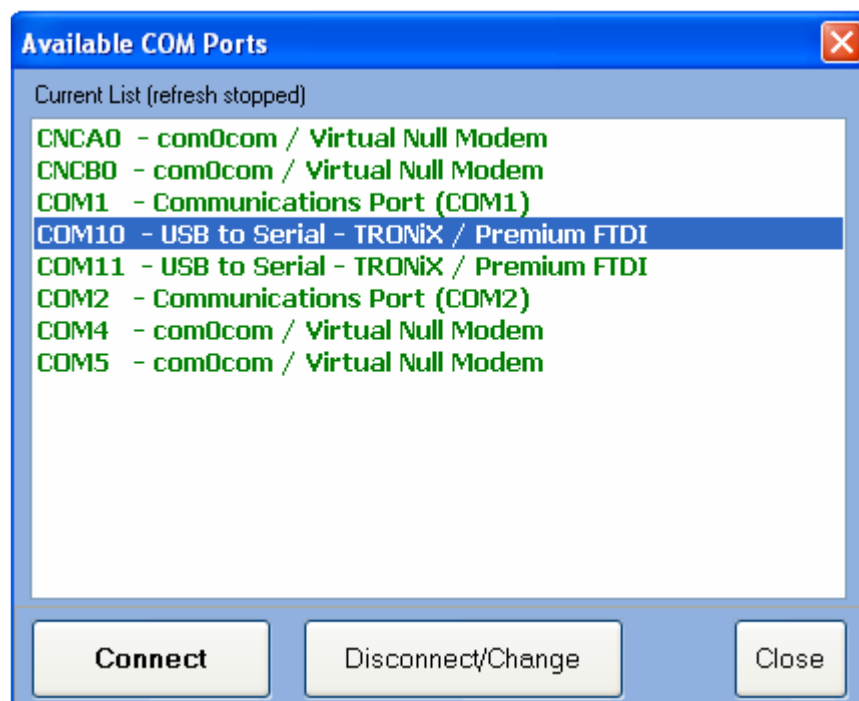
This will help find a specific macro item. The search is case-insensitive within the name and description fields only for easy location of text without too many occurrences being found.



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2.7 Other Interim Features (v5.6)

2.7.1 Enhanced COM port listing with more information - see Comms->Find Available COM Ports. No need to go to device manager. Can double click within COM port drop down box to view .



2.7.2 New beta feature "Loop To Folder Start" Macro List type

This can be used with the Run All Items In Sequence scripting button:



This will allow looping within a folder for a COUNT number of times.

2.7.3 New Application Start - Automatic Actions

For automatically starting a Macro List on application start and looping, the following features have been added.

Added new settings option - see Settings->General tab: "Run Macro List on startup or drag&drop".

Added new macro list item: "Jump to Start" - moves execution to start of macro list.

2.7.4 Allowing of drag and drop support of separate macro lists (*.stml) or full settings profiles (*.ini or *.stp).

2.7.5 Renamed Menu Items

"Settings->Display..." to "Settings->Configure (F5)..."

"Settings->Import Profile" to "Settings->Load Settings Profile"

"Settings->Export Profile" to "Settings->Export Settings Profile"