

napsaterm

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Contents

1	napsaterm	1
1.1	napsaterm.guide	1
1.2	napsaterm.guide/About	3
1.3	napsaterm.guide/Copying Napsaterm	4
1.4	napsaterm.guide/Niftyterm licence	4
1.5	napsaterm.guide/Invoking from Shell	5
1.6	napsaterm.guide/Invoking from Workbench	5
1.7	napsaterm.guide/Options	6
1.8	napsaterm.guide/General options	7
1.9	napsaterm.guide/Device options	7
1.10	napsaterm.guide/Emulation options	8
1.11	napsaterm.guide/Display options	12
1.12	napsaterm.guide/Host names	13
1.13	napsaterm.guide/Preference file	13
1.14	napsaterm.guide/Alternative command names	14
1.15	napsaterm.guide/Menus	14
1.16	napsaterm.guide/Command menu	15
1.17	napsaterm.guide/Edit menu	16
1.18	napsaterm.guide/Setup menu	16
1.19	napsaterm.guide/Fonts	18
1.20	napsaterm.guide/National	19
1.21	napsaterm.guide/Keymaps	19
1.22	napsaterm.guide/Character tables	20
1.23	napsaterm.guide/IO modes	20
1.24	napsaterm.guide/rlogin protocol	21
1.25	napsaterm.guide/Telnet protocol	22
1.26	napsaterm.guide/Serial device	22
1.27	napsaterm.guide/DNet	23
1.28	napsaterm.guide/DOS IO	23
1.29	napsaterm.guide/Tektronix emulation	23

1.30	napsaterm.guide/History	24
1.31	napsaterm.guide/Changes in Version 3	24
1.32	napsaterm.guide/Changes in Version 2	26
1.33	napsaterm.guide/Changes in Version 1	27
1.34	napsaterm.guide/Glossary	28
1.35	napsaterm.guide/Index	28

Chapter 1

napsaterm

1.1 napsaterm.guide

Napsaterm 3

Napsaterm is a VT100 terminal emulator and rlogin client for AmiTCP/IP.

This is edition 1.3.2 of the Napsaterm documentation, 30 May 1994, for Napsaterm version 3.9.

About

Authors, copying

Invoking from Shell

How to start Napsaterm from command line

Invoking from Workbench

How to start Napsaterm from Workbench

Options

Configuring Napsaterm

Menus

Using menus

Fonts

How Napsaterm uses fonts

National

Using different character sets and keymaps

IO modes

Using Napsaterm with AmiTCP, DNet etc.

Tektronix emulation

Tektronix tek4010 emulation window

History
Changes from previous versions

Glossary
Important concepts

Index
-- The Detailed Node Listing --

About Authors

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Options

General options

Device options
Using different interfaces.

Emulation options
Changing the emulation type.

Display options
Changing the *Napsaterm* window.

Host names
Selecting remote host.

Preference file
Setting default preferences

Using Menus

Command menu

Edit menu

Setup menu

National Modes

Keymaps
Default national keymaps

Character tables
National character tables

Using Different IO Modes

rlogin protocol
Telnet protocol
Serial device
DNet
DOS IO
Napsaterm History

Changes in Version 3
Changes in Version 2
Changes in Version 1

1.2 napsaterm.guide/About

About Authors

=====

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We are interested to continuously develop Napsaterm and AmiTCP/IP. If you improve Napsaterm or fix bugs, please send the changes to us.

The

Tektronix emulation
is written by Robert A. Knop,
'<rknop@cco.caltech.edu>'. He has also written some new features and bug fixes to VT100 emulation.

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1.4 napsaterm.guide/Niftyterm licence

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Authors: Christopher J. Newman and Todd Williamson
 Niftyterm source code is available upon request. Send a disk and a self-addressed mailer to the address below, and I'll send you a copy.

If you find this program useful, Chris and I would certainly appreciate a donation to support further development:

Todd Williamson
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1.5 napsaterm.guide/Invoking from Shell

Invoking Napsaterm from Shell

=====

You can start Napsaterm with following command line options and parameters:

```
NAPSATERM [-V] [--vt102] [--vt52] [--h19] [-7] [-l FILE] [--slow]
          [-g GEOMETRY] [--80] [-f FONTNAME] [-p PROGRAMTITLE] [-S SCREEN]
          [--ic] [-v] [--application] [--numeric] [-w]
          [-d DEVICE] [-u UNIT] [-B LINESPEED] [--shared] [--stdio]
          [-N NET] [-s SERVICE] [-r REMOTENAME] [HOST]
```

Command line options can be entered in any order and any combination (except those that override each other). Single character options begin with single hyphen and can have optional arguments, multicharacter options begin with double hyphen. The rest of the command line arguments are interpreted as host names. With

Preference file

you can

change the default preferences of Napsaterm.

1.6 napsaterm.guide/Invoking from Workbench

Invoking Napsaterm from Workbench

=====

You can start Napsaterm from Workbench with various tool types to accommodate your personal preferences.

If you are using a project icon with Napsaterm as tool, the tooltypes of the project icon will override the tool types of the tool icon.

WAITTOEND

LOGFILE=filename

DEVICE=name

UNIT=number
LINESPEED=number
SHARED
REMOTENAME=login name
REMOTETYPE=terminal type
SERVICE=service type
EMULATION=terminal type
NATIONAL=mode
NATION=Nation name
KEYMAP=[nation/]mapname
KEYBOARD=[nation/]mapname
KEYPAD=NUMERIC|APPLICATION
MOUSE=events
BACKSPACE2DELETE
DELETE2BACKSPACE
CURSORBLINK
CURSOR=type
BELL=type
PASS8
CTRL8BIT
INVERSE
ALTISMETA
GEOMETRY=specification
PUBSCREENNAME=name
BASEFONT=font/size
TITLE=string
SIZEGADGET=type
FIXEDCOLUMNS
HOST=hostname

1.7 napsaterm.guide/Options

Options

=====

The Napsaterm can be given either command line options or icon tool types.

General options

Device options

Using different interfaces.

Emulation options

Changing the emulation type.

Display options

Changing the Napsaterm window.

Host names

Selecting remote host.

Preference file
Setting default preferences

1.8 napsaterm.guide/General options

General Options

`'-v'`
Displays the current version number and copyright notice. There is no corresponding tool type.

`'-l FILE'`
`'LOGFILE=FILENAME'`
Logs the terminal output into specified file.

`'-w'`
`'WAITTOEND'`
Wait for a keypress before closing the emulation window after the input stream has finished.

`'WAITTOEND=NOT'`
Negative form of previous tool type.

1.9 napsaterm.guide/Device options

Device Options

`'-d DEVICE'`
`'DEVICE=NAME'`
Uses specified device. The DEVICE may be any device compatible with serial.device (normal Exec device name) or one of the following:

- * NET - use the remote login protocol over TCP/IP (default).
- * TELNET - use the Telnet protocol over TCP/IP.
- * DNET - use a "DNet" channel.

`'-u UNIT'`
`'UNIT=NUMBER'`
causes Napsaterm to use the specified unit of the device. It has no effect when using TCP/IP or DNet.

`'-N NETWORK'`
Uses the specified DNet NETWORK. This option is not currently implemented.

There is no corresponding tool type.

``-B LINESPEED'`

``LINESPEED=NUMBER'`

Starts the Napsaterm with specified LINE SPEED (as bits per second). This parameter is used with `'serial.device'` and

`rlogin protocol`

.

``--shared'`

``SHARED'`

If this option is specified, Napsaterm will open the device specified in "shared" mode. This allows Napsaterm to share the serial port with other applications which also can open the serial port in shared mode (including another Napsaterm). You can also prevent Napsaterm from reading characters from serial device, see

`Unlisten menu command`

.

``--stdio'`

Causes Napsaterm to display whatever comes from standard input, and send all keystrokes to standard output. For example:

`Napsaterm --stdio < filein > fileout`
would display file in a Napsaterm window.

There is no corresponding tool type.

``-r LOGIN NAME'`

``REMOTENAME=LOGIN NAME'`

This option or tool type is used to specify user name in the remote system when using the

`rlogin protocol`

.

``REMOTETYPE=TERMINAL TYPE'`

This tool type specifies the terminal type used in the remote system when using the

`rlogin protocol`

.

``-s SERVICE'`

``SERVICE=SERVICE'`

causes Napsaterm to use the specified TCP service or port number. You can either give a service name from `'AmiTCP:db/services'` or the directly the port port number.

This option or tool type is valid only with telnet protocol.

1.10 napsaterm.guide/Emulation options

Emulation Options

``EMULATION=TERMINAL TYPE'`

Select the emulation type to use. The emulation type can be chosen with following options from the command line.

``--vt102'`

Emulate a "vt102" terminal.

``--vt52'`

Emulate a "vt52" terminal.

``--ht19'`

Emulates a "ht19" terminal.

``NATIONAL=MODE'`

Determines the national mode used. National modes are (valid abbreviation for each mode in parenthesis):

- * `None' (`No')
- * `Multinational' (`Mu')
- * `National' (`Na')

See

National modes

.

``NATION=NATION NAME'`

Specifies the used nation. Valid nations are as follows (valid abbreviations for each nation in parenthesis):

- * `US ASCII', (`US')
- * `Danish', (`Da')
- * `Finnish', (`Fi')
- * `French', (`Fr')
- * `German', (`Ge')
- * `Norwegian', (`No')
- * `Swedish', (`Sw')
- * `UK ASCII', (`UK')

Default nation is `US'.

``KEYMAP=[NATION/]MAPNAME'```KEYBOARD=[NATION/]MAPNAME'`

These tool types are synonymous. They specify the keymap the Napsaterm will use. It is possible to change also a specific national keymap, for instance the tool type `KEYMAP=Finnish/sf7' will change the Finnish national keymap to `sf7'. For default national keymaps, see

Keymaps

.

``KEYPAD=[NUMERIC/APPLICATION]'```--numeric'```--application'`

These options and tool type control the behavior of keypad. If the option `--numeric' is specified or the tool type `KEYPAD' has value `NUMERIC', the keypad is in normal mode. If the option `--application' is specified or the tool type `KEYPAD' has value

'APPLICATION', the keypad is in the application mode.

In application mode, the vt100 control sequences will be sent to remote host instead of normal characters. This is handy for text editors and the like that use the keypad as a function keypad.

'--slow'

Starts in slow mode. This mode is useful only watching some vt102 animations with '--stdio' option.

There is no corresponding tool type.

'MOUSE=EVENTS'

This tool type controls which kind of mouse events are sent to the remote end.

OFF

Don't send mouse clicks

DOWN

Send an event only when user presses the select button

UP

Send a mouse event only when user releases the select button

BOTH

Send both up- and downward clicks

When mouse events are enabled Napsaterm sends the following sequence when the user presses the left (selection) button on the Amiga mouse:

ESC 'M' QUALS COLUMN LINE

where column and line are bytes that represent the x, y coordinates of the mouse click (offset by 32; a click on (0, 0) results in sending two space characters), and quals is like so:

bit 0

Control key

bit 1

Shift key

bit 2

Meta (alt) key

bit 3

Caps lock

bit 4

Mouse down event

bit 5

Mouse up event

bit 6

Always on (making qual a printable value)

For example, clicking on column 1, row 1 results in the escape

``ALTISMETA'`

If this tool type is given, the left alt key on the keyboard will act as a meta key. If the left alt key is pressed down, all single character key sequences will be prefixed by ESC character. This is particularly useful for emacs.

1.11 napsaterm.guide/Display options

Display Options

These preferences or tool types affect the Napsaterm window, its size, placement and title.

``-g GEOMETRY'```GEOMETRY=SPECIFICATION'`

Sets up the window geometry. The format for geometry is /LEFT/TOP/WIDTH/HEIGHT. A value of -1 for the WIDTH or HEIGHT makes the window stretch to the right edge or bottom of the screen. A value of -1 for the TOP makes the window's top edge appear just below the screen title bar. The LEFT and TOP are specified in pixels. The WIDTH and HEIGHT are specified in characters.

``-S SCREEN'```PUBSCREENNAME=NAME'`

Opens the Napsaterm window on the specified "public screen". If the screen don't exist, open the window on the default public screen (which is normally the Workbench Screen).

``-f FONTNAME'```BASEFONT=FONT/SIZE'`

Sets the font for the Napsaterm window. By default the font 'napsa 11' or, if 'napsa 11' cannot be found, 'topaz 8' is used. If you wish to use a different font such as "courier 11", simply specify FONT as 'courier/11'. If the font you choose is not fixed width, strange and unusual things will happen. For more information of Napsaterm fonts see

Fonts

.

``-p PROGRAMTITLE'```TITLE=STRING'`

Draws the PROGRAM TITLE with given text. The actual window title is concatenated with display size indicator '(width \$ \times\$ height)'. Normal title is the remote host name when using rlogin, otherwise 'Napsaterm'.

``SIZEGADGET=TYPE'`

This tool type controls which border of the window the window's sizing gadget will appear in. If you have a sizing gadget on a window, you must lose some of the window space for the border to contain it. This preference controls whether you lose rows,

columns, or nothing. If you choose NONE, the window will not have a size gadget, and will therefore not be resizable. It is useful if you want an 80x24 window to take up the smallest possible screen space. If you choose COLUMN, the sizing gadget will be on the right border, and if ROW, the sizing gadget will be on the bottom border.

```
`--80'
```

```
`FIXEDCOLUMNS'
```

If this option or tool type is given Napsaterm won't use no more than 80 columns of text. This is useful for running programs written for terminals that assume the terminal has 80 columns.

1.12 napsaterm.guide/Host names

Host Names

```
-----
```

```
`HOST=NAME[|NAME2...]'
```

The tool type HOST is used to specify remote host name(s). The host names should be given in standard internet format.

When Napsaterm is started from command line, command line arguments which do not start with hyphen are regarded as host names. If you need to use host name which begins with hyphen '-', give a single hyphen as an argument after all options and before the host name.

```
Napsaterm -d net - -weird.host.name.in.net
```

If Napsaterm is given multiple host names, it will randomly connect to one of them.

The following command causes Napsaterm connect to either 'punkku' or 'vinkku':

```
run Napsaterm -g 0/-1/80/30 punkku vinkku
```

1.13 napsaterm.guide/Preference file

Preference File

```
-----
```

The preference file 'AmiTCP:db/NapsaPrefs' contains default preferences when you invoke Napsaterm from CLI.

The preference file contains tool-type-like options given in a X-resource-look-a-like format. The preference file format is compatible with NiftyTerm and older Napsaterm versions. Each row in the preference file has format as follows:

```
[COMMAND NAME\.']PREFERENCE NAME\:' VALUE
```

"Preference name" is the part of the line before the ':' character, "preference value" is the part after it.

Unless otherwise specified, preference name and value are case-insensitive. Unrecognized preference names are ignored, unrecognized values revert to default.

If the corresponding tool type is a switch, the preference value should be '1', 'true' or 'yes', or the preference is silently ignored.

Tool type 'Host' has no corresponding preference.

See

Alternative command names
, if you need many different default

preference sets.

For compatibility reasons, if the file 'AmiTCP:db/NapsaPrefs' does not exist, also the files 'S:NapsaPrefs' and 'S:NiftyPrefs' are searched for preferences.

1.14 napsaterm.guide/Alternative command names

Using Alternative Command Names

.....

If the preference name is prefixed with COMMAND NAME, it is valid only when Napsaterm is invoked with that name. You can invoke Napsaterm with a different name, if you rename the Napsaterm program file or make a new link to it. For example, you could make following links

```
makelink AmiTCP:bin/NapsatermUS AmiTCP:bin/Napsaterm
```

```
makelink AmiTCP:bin/NapsatermUK AmiTCP:bin/Napsaterm
```

and you have added following preferences

```
Nation: Finnish
```

```
Napsaterm.Nation: US
```

```
NapsatermUK.Nation: UK
```

If you started Napsaterm with the command 'Napsaterm', you could use Finnish keyboard ('s') and character set (ISO 646 SF-2). If you gave command 'NapsatermUK', you would get the British keyboard ('uk') and character set (UK-ASCII).

1.15 napsaterm.guide/Menus

Using Menus

=====

Napsaterm have three menus, 'Command', 'Edit' and 'Setup'. The 'Command' menu contains terminal control commands. The 'Edit' menu handles the clipboard. The 'Setup' menu allows the user to adjust the

way Napsaterm functions.

Command menu

Edit menu

Setup menu

1.16 napsaterm.guide/Command menu

Command Menu

The 'Command' menu contains terminal control commands.

- Menu item: Clear Screen
Moves the current Napsaterm prompt to the top of the Napsaterm window and clears the screen. Shortcut is 'Amiga-S'.
- Menu item: To Tek4010
Selects the Tek4010 emulation and activates the Tek4010 window. Shortcut is 'Amiga-G'.
- Menu item: To VT102
Selects the VT102 emulation and activates the VT102 window. Shortcut is 'Amiga-T'.
- Menu item: Soft Reset
Resets all terminal styles, scroll regions, and invert mode. Shortcut is 'Amiga-R'.
- Menu item: Flush
Flushes the buffers for the current device. Useful if you did something that will cause a lot of output, and you want to tell Napsaterm not to display it all. Shortcut is 'Amiga-F'.
- Menu item: Break
Sends a break signal to the current device. Shortcut is 'Amiga-B'.

Break is enabled only when Napsaterm is connected to a serial device.

- Menu item: Unlisten
Napsaterm will cease to talk to whatever device it is connected to, so that another program can use it exclusively. Note that all keyboard input is flushed as well until you select Listen menu option.

'Unlisten' is enabled only when Napsaterm is started in 'Shared' mode. Shortcut is 'Amiga-U'.

- Menu item: Listen

Napsaterm restarts talking and listening to device it is connected to.

'Listen' is enabled after 'Unlisten' is selected.

An example of usage for 'UnListen' and 'Listen': you're logged in and you want to save something to a log file. You had foresight and started Napsaterm in shared mode. You select 'Unlisten' and start another Napsaterm writing to a log file. When you have everything in the log file, you quit the second Napsaterm and select 'listen' the original. This option might be useful if someone wants to write some stand-alone file transfer utilities. Shortcut is 'Amiga-L'.

- Menu item: Quit
Exits Napsaterm and closes the window. Shortcut is 'Amiga-Q'.

1.17 napsaterm.guide/Edit menu

Edit Menu

The 'Edit' menu handles the clipboard.

- Menu item: Copy
Copies the selected text into the clipboard. You can put the text you copied most recently back into any document by choosing 'Paste'. Shortcut is 'Amiga-C'.
- Menu item: Paste
Copies the most recently copied text to the current cursor position. Shortcut is 'Amiga-P'.
- Menu item: Move
If a previous command or some text is selected in the Napsaterm window, 'Move' inserts the text as if it had been typed. Shortcut is 'Amiga-M'.
- Menu item: Execute
The same as 'Move', only it follows the text with a 'LF' character. Shortcut is 'Amiga-E'.

1.18 napsaterm.guide/Setup menu

Setup Menu

The 'Setup' menu allows the user to adjust the way *Napsaterm* functions.

-
- Menu item: National Mode
See
 Tool type NATIONAL
 .
 - Menu item: Nation
See
 Tool type NATION
 .
 - Menu item: Terminal Type
See
 Tool type EMULATION
 .
 - Menu item: Backspace is sent as
See
 Tool type BACKSPACE2DELETE
 .
 - Menu item: Del is sent as
See
 Tool type DELETE2BACKSPACE
 .
 - Menu item: Left Alt key is
See
 Tool type ALTISMETA
 .
 - Menu item: Keypad
See
 Tool type KEYPAD
 .
 - Menu item: Mouse Events
See
 Tool type MOUSE
 .
 - Menu item: Control Codes
See
 Tool type CTRL8BIT
 .
 - Menu item: Cursor
See
 Tool type CURSOR
 .
 - Menu item: Display Width
See
 Tool type FIXEDCOLUMNS
 .
 - Menu item: Display Speed
See
-

Option -slow

.

- Menu item: Bell Type

See

Tool type BELL

.

- Menu item: Reverse

See

Tool type INVERSE

.

- Menu item: Ansi LNM

Controls whether RETURN should be sent as CR-LF sequence.

1.19 napsaterm.guide/Fonts

How Napsaterm Uses Fonts

=====

Napsaterm should be able to use any fixed-width font. However, standard Amiga fonts do not represent the VT100's character set very well. Included with this Napsaterm is a set of fonts with names starting with 'Napsa'. Some explanation of these fonts is in order.

Napsaterm starts out with a base font name, something like 'topaz' or 'Napsa'. If Napsaterm needs an italic or bold font, it first looks in the fonts: directory to see if there is a version of the current font which was designed to be italic or bold. If not, it uses the Amiga's internal functions to construct one. When it needs one of the special VT100 character sets, it appends an extension to the font name and looks for a font of the same size as the current font with the new name. The extensions are as follows:

'v'

alternate character set

'w'

double-width font

't'

top half of double-width double-height font

'b'

bottom half of double-width double-height font

'vw', 'vt', and 'vb' are also extensions, meaning the alternate character set version of the different-sized font. So, for example, if Napsaterm was using the font 'Napsa/11', and it needed a double-width font, it would look for the font 'Napsaw/11'.

The fonts that come with the distribution are designed to be used on

screens where the pixels are roughly as wide as they are tall. Any of the 640 \times 400 graphics modes fall into this category. In the 640 \times 200 modes, the fonts will seem too tall.

If anyone creates any fonts for use with Napsaterm or Niftyterm, I'd like to get a copy of them.

1.20 napsaterm.guide/National

National Modes

=====

The national mode is set with tool type 'NATIONAL' There are three different national modes in Napsaterm.

None

By default, when no national mode is not in use, ('None', abbreviated as 'NO'), Napsaterm uses the ISO-8857 Latin 1 character set, the standard character set used in Amiga. By default, Napsaterm uses either the default system keymap or the keymap specified with tool type 'KEYMAP', if any.

Multinational

In the 'Multinational' mode (abbreviated as 'MU') Napsaterm uses the Latin 1 character set and the appropriate national keymap. See

Keymaps

for a list of default national keymap names. A specific national keymap can also be specified with tool type 'KEYMAP' or 'KEYBOARD'.

National

In the 'National' mode (abbreviated as 'NA') Napsaterm uses the appropriate national 7 bit character set and the national keymap. See

Character tables

for tables of national character sets.

Keymaps

Default national keymaps

Character tables

National character tables

1.21 napsaterm.guide/Keymaps

National Keymaps

Default national keymaps are as follows:

- * `US ASCII' uses (`usal')
- * `Danish', (`dk')
- * `Finnish', (`s')
- * `French', (`f')
- * `German', (`d')
- * `Norwegian', (`n')
- * `Swedish', (`s')
- * `UK ASCII', (`gb')

You can change national keymap with tool type
`KEYMAP'=NATION/KEYMAPNAME, for example

KEYMAP=Finnish/s-term

changes the Finnish keymap to `s-term'. You can abbreviate the
nation name, see also

tool type NATION

.

1.22 napsaterm.guide/Character tables

National Character Tables

Napsaterm uses ISO 646 national character codes as follows:

DEC	35	36	64	91	92	93	94	96	123	124	125	126			
US-ASCII	#	\$	@	[\]	^	`	{		}	~			
Danish	#	\$	@	Æ	Ø	Å	^	`	æ	ø	å	~			
Finnish	#	\$	@	Ä	Ö	Å	^	`	ä	ö	å	~			
French	#	\$	à	\textdegree{}				ç	§	^	`	é	ù	è	..
German	#	\$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß			
Norwegian	#	¤	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü			
Swedish	#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü			
UK-ASCII	£	\$	@	[\]	^	`	{		}	~			
HEX	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E			

1.23 napsaterm.guide/IO modes

Using Different IO Modes

=====

Napsaterm provides four different ways to do the terminal IO.

rlogin protocol

Telnet protocol

Serial device

DNet

DOS IO

1.24 napsaterm.guide/rlogin protocol

Rlogin protocol

The rlogin protocol is described in the 'RFC 1282'. It is a Unix-specific remote terminal session protocol, somewhat like

Telnet protocol

but with different features. The remote rlogin session get your the user name, terminal type and line speed from the rlogin client.

Rlogin protocol uses your local hostname (domain name of the computer you are logging from), your local user name and user name at the "rlogin server" for authentication. If there is a matching entry in the 'rhosts' files, the rlogin server let you log in without asking the password. If no match is found, rlogin server asks you for the password for the remote user. If it is not correct, it reverts to normal login procedure.

Napsaterm is used as a rlogin client for AmiTCP/IP. Currently Napsaterm gets the local user name from environment variable 'USER'. The remote user name is same as your local user name unless you specify tool type 'RemoteName'.

For example, your local user name is 'ppessi', but remote user name is 't35082k'. If not told otherwise, Napsaterm will introduce you as 'ppessi' to the remote machine. As the rlogin server regards it as the password of account of 'ppessi', you can not give your password at the first 'Password:' prompt. You should use tool type 'RemoteName':

```
RemoteName=t35082k
```

Now you can enter password for 't35082k''s account without typing the user name each time. You can also specify your remote user name with '-r' option.

You should add an entry to your ``.rhosts`` file in a Unix machine only if your Amiga is trustworthy -- that is, nobody else but you can use it and it is in secure network. A ``.rhosts`` entry consists of a host name and a user name in that host. The host name is the canonic host name of machine you are logging from. For example, if you have account ``t35082k`` in machine called ``kaira.hut.fi``, you could add following line to your ``.rhosts`` file:

```
kaira.hut.fi t35082k
```

The line speed has additional meaning when using rlogin protocol. Some Unix programs and terminal drivers use the nominal terminal speed to determine the throughput of your connection. There may be a problem if the speed is 300 b/s (or even 9600 b/s) while you are using Ethernet. Likewise the nominal speed of 38400 b/s over a 2400 b/s slip connection is likely to cause trouble. You can determine your nominal speed in the Unix systems with the ``.stty`` command.

1.25 napsaterm.guide/Telnet protocol

Serial devices

The Telnet protocol is described in various RFC documents. It is a generic remote session protocol with rich features and more general use than

```
rlogin protocol
```

.

Currently the Napsaterm supports terminal type and size negotiation. It does not pass your user name to telnet server.

1.26 napsaterm.guide/Serial device

Serial devices

Napsaterm can use any ``.serial.device``-compatible Exec device. You can specify the device name and unit number with tool types or command line options. See

```
Device options
```

.

You can start Napsaterm in shared mode, See

```
-shared
```

```
. In "shared
```

```
mode" other programs (like another Napsaterm) can open serial device in the same time. The actual input data is is not shared, but all programs will read the data from device in their turn. Napsaterm can stop
```

reading data from serial device, see
Unlisten

.

1.27 napsaterm.guide/DNet

DNet

"DNet" is a serial line multiplexing protocol with priorities and provisions for server/client architecture. It works between Amigas and Unix machines running 4BSD or SunOS. There are ports for different 4BSD variants and Linux. There exists many network-type applications for DNet.

If you are using "DNet", you can use Napsaterm instead of 'FTerm'.

1.28 napsaterm.guide/DOS IO

DOS IO

The input and output of Napsaterm can be read from and written to "standard input" and "standard output" DOS IO streams. For example, if you want to view a VT100 animation with Napsaterm, you can give command

```
Napsaterm --slow --stdio < vt100-animation-file
```

1.29 napsaterm.guide/Tektronix emulation

Tektronix emulation

=====

There are two versions of Napsaterm binaries in distribution archive, one with Tektronix emulation and one without. The tektronix emulation is implemented in separate window, the VT100 window works as usually.

Two menu items have been added to Tektronix emulation version. They are 'To VT102' and 'To Tek4010'. When a emulation window (tek or vt) is selected, it may be brought to the front and activated (depending on settings of the config menus on the Tek4010 window). However, if you click in a window, or bring it to the front, it does not necessarily make it the one receiving data from the host. The 'To Tek4010' and 'To VT102' menu items in each screen switch that, as can certain escape sequences from the host.

1.30 napsaterm.guide/History

Napsaterm History

=====

Napsaterm is derived originally from Niftyterm 1.2. It is called Napsaterm because original authors wanted to keep distinction clear between it and their versions of Niftyterm. See Niftyterm licence

.

There are some features in Napsaterm 3 which are incompatible with earlier versions or with NiftyTerm 1.2.

Changes in Version 3

Changes in Version 2

Changes in Version 1

1.31 napsaterm.guide/Changes in Version 3

Changed in Version 3.9

- * The AmiTCP/IP error messages are now printed when using the rlogin or telnet protocol.
- * A brave new 'About' requester was added. Currently, it is modal.

Changed in Version 3.8

- * The tool type 'CTRL8BIT' is no more enabled by default, ie. 7 bit control codes are used normally.
- * Bug with audio bell is fixed.

Changed in Version 3.7

- * Support for Telnet protocol was added. Supported features include terminal type and size negotiation.
- * The long options have now double hyphen at the beginning.
- * The 8-bit/7-bit control codes are working for all keys.
- * New menu item added, See

Control Codes
, which enables sending
8-bit control codes.

Changed in Versions 3.4 and 3.5

Robert Knop, '<rknop@cco.caltech.edu>', released these versions.
The major new feature in these releases is the
Tektronix emulation

.
Any bug reports on the tek4010 emulation should be sent to Rob Knop.

- * The tek4010 emulation has following features:
 - Vector, Alpha, Incremental, and Point-plot modes are (at least partially) supported.
 - As of version 3.5, the GIN cursor is supported.
 - Some GraphOn enhancements, e.g. block fill mode, are also supported.
 - * 'ANSI LNM' added to the
Setup menu
. Sometimes changing the state
of this flag can improve the operation of the terminal's newlines
under Unix when running directly over the serial port. It does
not seem to be necessary when Napsaterm is used with AmiTCP/IP.
- * Support for the VT100 application keypad has been added. Under the
Setup menu
, if you select 'Application' for keypad type, VT100
escape sequences will be sent to the host instead of characters
when you hit keys on the numeric keypad. This is handy for text
editors and the like that use the keypad as a function keypad.
- * A small number of additional minor enhancements and bugfixes to
the VT100 emulation.

Changed in Version 3.3

- * For compatibility reasons, if the file 'AmiTCP:db/NapsaPrefs' does
not exist, the files 'S:NapsaPrefs' and 'S:NiftyPrefs' are
searched for preferences.
- * New menu item 'Left Alt key is' was added to 'Setup' menu.

Changes in Version 3.2 (3beta)

- * Workbench support is added. You can start Napsaterm directly from
Workbench
 - * As a consequence of previous, the preference parsing is altered.
See
-

Preference file

. Preference files are used only when Napsaterm started from shell. The program name used in preference parsing is not fixed, the command name given by shell is used

- * Napsaterm can select randomly a host if it is given multiple host names
- * Mouse support is enchanced. (See
 Mouse
 .) Napsaterm sends Mouse events as 'ESC M' sequences. Preference 'Emacsmode' is obsolete and it is supported no more
- * New preference 'Backspace2Delete'. (See
 Backspace2Delete
 .) There was an old preference 'NormalBackspace', which had opposite meaning
- * New preference 'Delete2Backspace'. (See
 Delete2Backspace
 .) There was an old preference 'NormalDelete', which had opposite meaning
- * Preference 'LineSpeed' is used to change the serial speed, also a new option '-B' changes the line speed
- * Preference 'National' has now three values, 'None', 'MultiNatinl' and 'National'

1.32 napsaterm.guide/Changes in Version 2

Changes in Version 2.2

- * Preference 'PubScreenName'
- * Preference 'ctrl8bit'
- * Preference 'Keyboard' was mentioned version 2 documentation instead of correct preference 'Keymap'. Now both preferences can be used

Changes in Version 2.1

- * Option '-p' selects the public screen
- * The preference file is moved into the directory 'AmiTCP:db/'

Changes in Version 2.0

The AmiTCP/IP BSD socket interface was added to Napsaterm after the

porting of real "rlogin" program seemed to take too much effort and time. The

rlogin protocol

is a very simple. However asynchronous,

interactive IO with AmigaDOS is quite ineffective and quite complex to implement. Fortunately Niftyterm IO implementation was extremely flexible and it was easy to add new IO methods for rlogin.

* Option '-d net' selects now rlogin protocol ('-d dnet' will select DNet).

* New preferences:

'Linespeed'

'RemoteName'

'RemoteType'

1.33 napsaterm.guide/Changes in Version 1

Napsaterm 1.3 Compared to Niftyterm 1.2

- * Support for different international keyboards layouts and character sets is added. Napsaterm supports multinational ISO 8857-Latin-1 character set, the native Amiga character set. It also supports some ISO 646 national character sets. For the character tables for ISO 646 character sets see
Character tables
.
 - * New preferences were added:
 - 'Keymap'
 - 'National'
 - * Left Alt key can be used as a Meta key by setting the 'AltisMeta' preference. If you press a key with Left Alt key Napsaterm sends an 'Escape' character (ASCII 27) before the key's ASCII code. Niftyterm sets the 8th bit of sent ASCII code.
 - * Switching Delete and Backspace keys was enchanced. Switching Delete and Backspace keys are now done before key code conversion. So, even if the Backspace key (arrow to left above the Enter key) will send a 'DEL' code (ASCII 127) but if you press CTRL and H, Napsaterm sends still '^H' (ASCII 8).
 - * A bug in the clipboard handling is fixed.
 - * Napsaterm do not free the console window when it is started, you must start it explicitly with run. Iconify feature is removed (if you really want it, do recompile from the sources).
 - * Iconifying was removed as the zoom feature in Amiga OS 2.04 had most of its functionality
-

-f option	Display options
-g option	Display options
-l option	General options
-N option	Device options
-p option	Display options
-r option	Device options
-S option	Display options
-s option	Device options
-u option	Device options
-v option	Emulation options
-V option	General options
-w option	General options
ALTISMETA tool type	Emulation options
BACKSPACE2DELETE tool type	Emulation options
BASEFONT tool type	Display options
BELL tool type	Emulation options
CTRL8BIT tool type	Emulation options
CURSORBLINK tool type	Emulation options
CURSOR tool type	Emulation options

DELETE2BACKSPACE tool type
Emulation options

DEVICE tool type
Device options

EMULATION tool type
Emulation options

FIXEDCOLUMNS tool type
Display options

GEOMETRY tool type
Display options

HOST tool type
Host names

INVERSE tool type
Emulation options

KEYBOARD tool type
Emulation options

KEYMAP tool type
Emulation options

KEYPAD tool type
Emulation options

LINESPEED tool type
Device options

MOUSE tool type
Emulation options

NATIONAL tool type
Emulation options

NATION tool type
Emulation options

PASS8 tool type
Emulation options

PUBSCREENNAME tool type
Display options

REMOTENAME tool type
Device options

REMOTETYPE tool type
Device options

SERVICE tool type
Device options

SHARED tool type
Device options

SIZEGADGET tool type
Display options

TITLE tool type
Display options

UNIT tool type
Device options

stty
rlogin protocol

Alternate character set
Fonts

Alternative command names
Alternative command names

AmiTCP/IP Group
About

Ansi LNM
Setup menu

Backspace is sent as
Setup menu

Bell Type
Setup menu

Break
Command menu

Changing command name
Alternative command names

Clear Screen
Command menu

Command line interface
Invoking from Shell

Command menu
Command menu

Control Codes
Setup menu

Copy
Edit menu

Copying
Copying Napsaterm

Cursor	Setup menu
Default national keymaps Keymaps	
Del is sent as	Setup menu
detaching	Changes in Version 1
Device options	Device options
Display Speed	Setup menu
Display Width	Setup menu
Display options	Display options
DNet	DNet
DOS IO	DOS IO
Double-height font	Fonts
Double-width font	Fonts
Edit menu	Edit menu
Emulation options	Emulation options
Environment variable USER rlogin protocol	
Execute	Edit menu
Flush	Command menu
Fonts	Fonts
FTerm	DNet

General options	General options
Host names	Host names
Icon interface	Invoking from Workbench
Interlace screen	Fonts
Intuition menus	Menus
Invoking from CLI	Invoking from Shell
Invoking from workbench	Invoking from Workbench
IO modes	IO modes
ISO 646	Character tables
ISO 8857-Latin-1	Changes in Version 1
Keymaps	Keymaps
Keypad	Setup menu
Knop, Robert	About
Latin 1	Changes in Version 1
Left Alt key is	Setup menu
Licence	Copying Napsaterm
Licence, Niftyterm	Niftyterm licence
Line speed	rlogin protocol
Listen	Command menu

LOGFILE tool type	General options
Menus, Intuition	Menus
Mononational mode	National
Mouse Events	Setup menu
Move	Edit menu
Multinational mode	National
Napsa, font	Fonts
NapsaPrefs	Preference file
NapsatermUK	Alternative command names
NapsatermUS	Alternative command names
Nation	Setup menu
National Mode	Setup menu
National character tables	Character tables
National keymaps	Keymaps
National mode	National
National modes	National
Nations, available	Emulation options
Newman, Christopher J.	Niftyterm licence
Niftyterm licence	Niftyterm licence

Non-Interlace screen
 Fonts

Ollila, Tomi
 About

Option --80
 Display options

Option --application
 Emulation options

Option --h19
 Emulation options

Option --ic
 Emulation options

Option --numeric
 Emulation options

Option --shared
 Device options

Option --slow
 Emulation options

Option --stdio
 Device options

Option --vt102
 Emulation options

Option --vt52
 Emulation options

Option -7
 Emulation options

Option -B
 Device options

Option -d
 Device options

Option -f
 Display options

Option -g
 Display options

Option -l
 General options

Option -N
 Device options

Option -p	Display options
Option -r	Device options
Option -S	Display options
Option -s	Device options
Option -u	Device options
Option -V	General options
Option -v	Emulation options
Option -w	General options
Options	Options
Options, Device	Device options
Options, Display	Display options
Options, Emulation	Emulation options
Options, General	General options
Options, Overview of CLI	Invoking from Shell
Password	rlogin protocol
Paste	Edit menu
Pessi, Pekka	About
Peuhkuri, Markus	About
Preference file	Preference file

Preferences	Preference file
Quit	Command menu
Rajahalme, Jarno	About
Remote user name	rlogin protocol
Reverse	Setup menu
RFC 1282	rlogin protocol
Rlogin client	rlogin protocol
Rlogin protocol	rlogin protocol
Rlogin server	rlogin protocol
Serial devices	Serial device
serial.device	Serial device
Setup menu	Setup menu
Shared mode	Serial device
Soft Reset	Command menu
Standard input/output	DOS IO
Starting from CLI	Invoking from Shell
Starting from Workbench	Invoking from Workbench
stdio	DOS IO
Telnet	rlogin protocol

Telnet Protocol	Telnet protocol
Terminal Type	Setup menu
Terminal type	rlogin protocol
To Tek4010	Command menu
To VT102	Command menu
Tool type ALTISMETA	Emulation options
Tool type BACKSPACE2DELETE	Emulation options
Tool type BASEFONT	Display options
Tool type BELL	Emulation options
Tool type CTRL8BIT	Emulation options
Tool type CURSORBLINK	Emulation options
Tool type CURSOR	Emulation options
Tool type DELETE2BACKSPACE	Emulation options
Tool type DEVICE	Device options
Tool type EMULATION	Emulation options
Tool type FIXEDCOLUMNS	Display options
Tool type GEOMETRY	Display options
Tool type HOST	Host names
Tool type INVERSE	Emulation options

Tool type KEYBOARD
Emulation options

Tool type KEYMAP
Emulation options

Tool type KEYPAD
Emulation options

Tool type LINESPEED
Device options

Tool type MOUSE
Emulation options

Tool type NATIONAL
Emulation options

Tool type NATION
Emulation options

Tool type PASS8
Emulation options

Tool type PUBSCREENNAME
Display options

Tool type REMOTENAME
Device options

Tool type REMOTETYPE
Device options

Tool type SERVICE
Device options

Tool type SHARED
Device options

Tool type SIZEGADGET
Display options

Tool type TITLE
Display options

Tool type UNIT
Device options

Tool type LOGFILE
General options

Tool type WAITTOEND
General options

Tool types
Options
