# Driver for NPort 5100 Series (Real TTY for Linux 3.x.x, 4.x.x) Release Notes

| Version: 1.19 | Build: N/A |
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| Release Date: Jan 18, 2019 | |

## Applicable Products

N/A

## Supported Operating Systems

Linux 3.x, Linux 4.x

## New Features

• Supports Raspbian Jessie and later for Raspberry Pi 2/3.
• Added driver background polling feature to eliminate the waiting time when an NPort is not present in Slackware 14.0.

## Enhancements

• Supports kernel 4.13.
• Compiling errors with error message “error: expected expression before '{' token” in specific platforms.
• When using a domain name as the mapping address for NPort, it will be translated every time when Real TTY is opening the port.
• Compiling errors when using secured Real COM mode.
• Shutdown hanging might happen in Red Hat Enterprise Linux 7.2 (3.10.0-123.el7).

## Bugs Fixed

• Real TTY can't start up TTY ports with the domain name mapped after the system is rebooted.
• Kernel panic with error message "unable to handle kernel paging request" on specific platforms.
• Driver doesn't load properly after system reboot on Ubuntu 16.04.
• Driver may cause a kernel crash with the error message "soft lockup" with specific network interface cards.
• The command stty may output an error if there is no loopback connector on NPort in Redundant mode.
• Network reconnection problems when using redundant mode.
• The Real TTY service may not start automatically in Debian 6.0 and later versions.
• There may be communication loss when using IPv6.
• Data can't be read due to abnormal flow control in Linux kernel 3.8 and later.
• When security mode is enabled, the driver may crash if it connects to an offline NPort.
• Port mapping is incorrect after rebooting in Kernel 3.2.48.
• When NPort is offline, the current serial parameters are not saved for reconnection.
• While executing mxsetsec, the configuration of the driver will be cleared.
• When opening node /dev/ttyr10, port 16 should be opened, but port 10 is opened instead.
• The driver reference count becomes negative after a port open fails.

## Changes

• No longer supports kernel 2.x.
• Log file increasing without limit causes a file system crash.

## Notes

N/A