

# Release Note NCI Unified Proximity driver

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## Document information

Info	Release Note
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Author Role	Developer

NXP

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**Revision History**

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Revision	Date	Description	Author
V10.0.6.0	2016/08/01	Unified Proximity Driver Production Release for <b>Win10 RS1</b>	Hariom Kesh

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## 1. Document purpose

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This document is the release note of NCI Unified Proximity driver. This document will describe content of the delivery and how to use installer.

## 2. Installation instructions

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If the driver is provided as a silent installer, simply launch the setup.exe and the driver installation process should start. If the installer is not silent, a GUI should appear and let user proceed the installation. The installer can take several command line parameters:

**/S** : The installer will be silent if it's a non silent installer.

The installer may support additional switches, please have look in the related chapter in this document.

## 3. Material list

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This package contains the following files:

- **NXP\_ProximityDriver\_Release\_note.pdf** : this document
- **setup.exe** : Installer for Unified Proximity Driver for all OSs.
- **Win10/driver\_binaries/** : Binaries for Proximity Driver x86 & x64 for Windows10
- **Win10/pdbs/** : All pdb files for Proximity Driver for Windows10
- **Win8x\_Win7/driver\_binaries/** : Binaries for Proximity Driver x86 & x64 for Win8.x & Win7
- **Win8x\_Win7/pdbs/** : All pdb files for Proximity Driver for Win8.x & Win7

## 4. Scope

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- **This package has Win10 RS1 HLK certified Proximity & PCSC driver.**
- This package also contains last released WHCK (Win8.x/Win7) certified driver.
- Installer “setup.exe” will install appropriate driver binaries based on underlying OS.
- This package has Unified driver binaries i.e. it is applicable for both HECI & SPB based platforms.

## 5. Binaries details

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- **Win10 RS1**
  - Proximity driver Version : 10.0.6.0
  - PCSC Driver : 1.0.4.42
  - Firmware version
    - NPC 100/120 : 8.2.3
    - NPC 300/320 : 10.1.11
  - GPIO Driver For Intel's HECI platform : 1.0.4.0
  - Proximity driver binaries are built with WDK 10.
  - Proximity driver is Win10 Device guard compliant.
- **Win 8.x/Win7**
  - Proximity driver Version : 10.0.5.0
  - PCSC Driver : 1.0.4.41
  - Firmware version
    - NPC 100/120 : 8.2.3
  - NPC 300/320 : 10.1.11
  - GPIO Driver For Intel's HECI platform : Win8.x/Win7 : 1.0.2.0

## 6. PR/CR/IR Details

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- PR/CR/IR Solved in this release
  - o [SC57043] Fix for CustomEEPROMConfigBlob not applied correctly
  - o Win10 RS1 HLK Failure fixes
  - o [SC56543] PCSC 7816 APDU GetData Command Fails with Mifare Desfire Ev1 tag.

## 7. Known issues and restrictions

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## 8. Appendix

### 8.1 Installer's switches

The driver installer support the following switches:

```
setup.exe [/SD] [/LOG=path] [/X=path] /RFOFF /WIZARD /ACCEPTLICENSE
```

Note : A valid path is an absolute path with the following format :

- PATH\_WITH\_NO\_SPACES
- "PATH\_WITH\_NO\_SPACES"
- "PATH WITH SPACES"

#### **Options :**

**/SD** : Completely silent mode.

This option disables all the message boxes, no notification will appear, even on error.

**/LOG** : Log file.

By default, a log file named "install\_log.txt" is created in the installation directory.

If this option is used, the log file name used is the complete path. The log file contains the following information :

- The time when the application has been launched
- The state of the silent mode (ON or OFF)
- The confirmation of extraction of the driver in the path precise, if /X option has been used
- If an error occurs, a description of this error
- The final status of the installation, and the time when the application stopped.

**/X** : Extract driver binaries to specified path without installing anything else.

**/DX** : Extract driver following MUP specification.

**/RFOFF** : The radio does not polling after installing the driver.

**/WIZARD** : Enable Installer WIZARD for silent installer. /SD override this switch.

**/S** : Enable silent mode. Popup are still displayed if an error occurs.

**/ACCEPTLICENSE** : When using /S or /SD, this switch silently accept license.

**/CONFIGXTAL** : Force FW clock configuration to XTAL.

**/PCSC** : Installs PCSC driver along with Proximity

**/ANTCONFIG** : Applies required antenna configuration needed to pass analog test on SKL SDS(ONLY for NPC100)

**/UNINSTALLER** : Adds Proximity driver Uninstaller under control panel ( "Uninstaller a program")

## 8.2 Radio and Power status.

This table indicates the Radio status, Power status (Ven) and libnfc status depending on platform state.

Transition	Ven status	Radio status	LibNfc status
Boot	Toggled OFF/ON	Polling ON	initialized
SX/CS/BOOT => S0	Toggled OFF/ON	Polling ON	initialized
S0 => S1 (Screen Off)	Ven OFF	Polling OFF	deinitialized
S0 => S3	Ven OFF	Polling OFF	deinitialized
S0 => S4	Ven OFF	Polling OFF	deinitialized
S0 => S5	Ven OFF	Polling OFF	deinitialized
S0 => CS	Ven OFF	Polling OFF	deinitialized
Driver enabled	Toggled OFF/ON	Polling ON	initialized
Driver disabled	Ven OFF	Polling OFF	deinitialized
Air plane mode ON / NFC Off	Ven OFF	Polling OFF	deinitialized
Air plane mode OFF / NFC On	Toggled OFF/ON	Polling ON	initialized