# Release Note Proximity Driver over Intel ME

## Document information

| Info | Content |
|---|---|
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| Author Role | Developer |
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| Abstract | |

NXP

## Revision History

| Revision | Date | Description | Author |
|---|---|---|---|
| v6.6.0 | 20150723 | Win10 certified driver | Hariom Kesh |

# Contents

# 1. Document purpose

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

# 2. Installation instructions

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 appears 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.

***/D=***C:\path_for_installation : change installation folder.

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

# 3. Driver version 6.6.0

## 3.1 Material list

This package contains the following files:

- ***release_note.pdf*** : this document
- ***setup.exe*** : installer for Proximity Driver.
- ***mup.xml*** : XML file for specific customers.
- ***driver_binaries/*** : Binaries for Proximity Driver x86 & x64 for Windows 10
- ***pdbs/***: All pdb files for Proximity Driver for Windows 10

## 3.2 Scope

- This package is Win10 (x64 & x86) HLK certified and targeted for Win10 OS only.

## 3.3 Driver Information

- This driver is Win10 (x64 & x86) HLK certified.
- NXP PCSC Driver Version : 1.0.4.39

## 3.4 Modification information

### 3.4.1 Driver

- Win10 HLK driver fixes
- Win10 Radio Management spec implementation

## 3.5 Test Information

- OS : Win10 EEAP build 10163
- Platform : Intel Haswell ULT
- MEI FW : 9.5.30.1808
- NFC module : PN544PC

## 3.6 Possible problems and know errors and restrictions

- None

## 3.7 Installer's switches

The driver installer support the following switches :

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

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 precised if /X option has been used
- If an error occures, 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.

**/NOPCSC** : Do not install NXP PCSC driver. Override default installer behavior.

**/PCSC** : Install PCSC driver. Override default installer behavior.

***/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.

```
SPI Flash BIOS VSCC:                    2025
BIOS boot State:                        Post Boot
OEM Id:                                 00000000-0000-0000-0000-000000000000
Capability Licensing Service:           Enabled
OEM Tag:                                0x00000000
Localized Language:                     Unknown
Independent Firmware Recovery:          Enabled
```

# 4. Appendix

## 4.1 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 |