

Intel[®] Maple Peak

User Guide

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Revision History

Revision	Description	Date
2.1	Beta 1.5 update	June 30, 2014
2.0	Beta update	April 9, 2014
1.1	Alpha update	November 25, 2013
1.0	Initial release.	May 16, 2013





Introduction

1 Introduction

This chapter provides an overview of the Maple Peak WiGig solution.

1.1 Scope

This document familiarizes customers with the Maple Peak hardware (HW) and software (SW) components and provides installation and configuration details.

1.2 References

Reference	Document	Revision
1	Maple Peak OEM Tool User Guide	
2	WiGig Release Notes	
3	Maple Peak External Product Specification	
4	Maple Peak DFB User Guide	

1.3 Introduction

The main use of Maple Peak at product launch is wireless docking in conjunction with the Maple Peak SNK.

1.3.1 Wireless docking

Wireless Docking generally occurs when the user is working 2-4 feet from the display(s). The user experiences the same kind of responsiveness as operating a workstation/desktop.

1.3.1.1 "Place to Dock, Snap to Go" experience

Wireless docking is designed to minimize user actions. After the initial WPS based pairing, the typical user is able to "auto-dock," meaning the device automatically connects to the dock and peripheral when in range of the dock. In other words, by the time the device is on the desk, it is already docked.

Undocking is as simple, allowing the user to grab the device and walk away.

1.3.1.2 Wireless Docking (WiDock) and Wireless Display (WiDi)

WiDock differs from other models, such as Miracast* or Intel® Wireless Display, in which the user is further from the screen (such as on the couch or in a conference room), and is focused on content consumption (watching a video, sharing a screen with others, gaming) rather than productivity or content creation.

Figure 1-1 Use models





1.3.2 Wireless peripheral

The wireless peripheral feature allows a device to interact with high-speed USB peripherals over WiGig. For example, a directly attached storage device equipped with Maple Peak SNK would allow a high-speed USB 3.0 connection with a Maple Peak equipped tablet or notebook.

When connecting, many of the wireless docking capabilities would be applicable (excluding of course the display capabilities), allowing USB 3.0 like throughputs (>1 Gbps) for on-desk distances.

1.3.3 Multi Gbps Device-to-Device

The Device-to-Device feature allows two peer devices (two PCs, two tablets, a PC and a tablet, etc.) to establish a fat IP pipe (> Gbps) to enable all other D2D capabilities.

1.4 Key features

See the Maple Peak Release Notes.

1.5 SW and HW deliverables

See the EPS document (Reference #3).

1.6 Notebook platform preparations for WiDock

- Operating system:
 - Microsoft* Windows* 7 32/64, Microsoft Windows 8.1U 64
- SW Pre-requisites for OEM tools (unnecessary with an operational stack):
 - VC++ 2010 Redistributable Package

1.7 Known limitations

See the Maple Peak Release Notes.

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Maple Peak Setup

2 Maple Peak Setup

The Maple Peak setup consists of the following components:

• One WiGig link that contains Maple Peak on the NB side and Maple Peak SNK on the dock side.

Note: Note that each MpL-M card (the baseband) is connected to MpL-R card (the 60 Ghz radio)

• A PC that serves as the NB host

WiGig connectivity can be performed in two modes:

- **Test mode** setup can perform a pre-defined set of traffic according to the accompanying OEM Tool application.
- **Operational mode** real WiGig pairing, with WDE and WSE PALs.

2.1 Operational mode

2.1.1 IF setup description (dock installer only)

Figure 2-1 IF setup



Table 2-1 IF setup description

Description	Table-top IF-to-IF (coaxial based) non-over-the-air reference-design setup for client side
Maple Peak HW	M.2 ES'; RFEM ES'
Capabilities	WSE; WDE
Wired / OTA	Wired (coaxial cable)*



2.1.2 **RF** setup description

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Table 2-2 RF setup description

Description	Table-top over-the-air reference design setup for client side
Maple Peak HW	WSE; WDE
Capabilities	M.2 ES'; RFEM ES'
Wired / OTA	ΟΤΑ

2.2 Test mode (OEM tool setup environment)

Figure 2-3 Maple Peak setup

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Maple Peak Setup

Figure 2 descriptions:

Two PCs (one per WiGig kit) are connected using a hub on the Ethernet NIC and can communicate over a WiGig link.

The OEM tool application is installed on the left PC, and a small agent is installed the right PC (details of how to install these can be found in the *OEM Tool User Guide*).

Note: A Test Mode setup should be installed to work in this configuration (see Section 3).

3 Software Install

3.1 NB side installation

1. Go to G Layout\Win7Plus\ and run Setup.exe.

Setup.exe installs the relevant installer for either a 32-bit platform or a 64-bit platform.

- 2. Check *I have reviewed and agree to the EULA* and click *Install*. This will install the operational WiGig software for the NB.
- 3. When the application is successfully installed check the *Do you want to launch CU*? option. Select *Finish*.

You will be able to run the CU application from the desktop shortcut later if you do not check this option.

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Software Install

Note: During the first installation the device driver is installed and the following "Windows Security" pop-up may appear:

- 4. Choose Install this driver software anyway to continue the installation.
- *Note:* To avoid this window, run the certificate file *(iCert.spc)* from the Certificates layout.
 - Run **setup.exe** –**q** from a command line to run the installer in silent mode.
- *Note:* The above installation is only for RF setup. See the following section (Dock Side Installation) and choose *NoteBook* to run an IF setup.

3.2 Dock side installation

3.2.1 Overview

The operational dock works without a host (hostless) and boots its FW from an inner flash memory. When working with the OEM tool a host must be connected. The flash should be burned to the updated version in one of two ways:

- 1. Over PCIe A "local" setup, in which the dock is not assembled and is attached to a PCIe cable. The Dock Flash Burning (DFB) tool is used for flashing.
- 2. Over The Air (OTA) A "remote" setup, in which the dock is connected to a client that can send the dock FW upgrade content OTA using the CU application.
- *Note:* Beta 1.0 did not support OTA FW upgrade. When upgrading from this version you must first burn the flash using the DFB tool using the following steps:
 - 1. Connect a host PC to the dock over PCIe and install the dock driver.
 - 2. Use the DFB tool to burn the FW.
 - 3. Disconnect the PCIe from the dock; work hostless.

When the FW version is higher than Beta 1.0, it can be upgraded OTA (see Section 4.8 for instructions) and no dock host installation is required.

3.2.2 Dock host installation over PCIe

This installer sets up your Maple Peak in a few simple steps. Navigation between steps is possible using the *Back* and *Next* buttons. Select *Cancel* to close the installer.

- 1. Uninstall previous dock drivers.
- 2. Go to OEM Layout\WiGigInstaller\ and run the WiGigInstaller.exe application.

- 3. Verify the following files are located in the installer folder:
 - a. WiGigInstaller_x**.msi
 - b. WiGigInstaller_DbgStack_x**.msi

The suffix x^{**} means x86 for a 32-bit platform and x64 for a 64-bit platform.

Note: During the first installation the device driver is installed and the following "Windows Security" pop-up may appear:

😵 Win	Vindows Security					
\bigotimes	Win	dows can't verify the publisher of this driver software				
	٠	Do <u>n</u> 't install this driver software You should check your manufacturer's website for updated driver software for your device.				
	•	Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.				
🕑 s	ee <u>d</u> et	tails				

4. Choose Install this driver software anyway and continue the installer.

Select Operation Mode

There are two operation modes:

- Test mode: no broadcasting takes place. Primarily used for characterization by the OEM Tool.
- Operational mode: the Maple Peak card is fully active in either one of the types in the next step.
- *Note:* A hostless dock is always in operational mode, no matter what was selected in the installation.
 - 5. Choose Test Mode.

•	WiGig MaplePeak installer	-		×
	Please select Operation Mode:			
	• Test Mode			
	Operational Mode			
	< Back Next >	Cance	4	

Select Setup Type

The Maple Peak card can be used for either notebook or dock:

Notebook: the notebook transmits data to the dock.
 Dock: the dock receives and displays data from the notebook.

Software Install

W	/iGig MapleP	eak installer	- 🗆 ×
Please select Se	tup Type:		
O NoteBook			
 Dock 			
	< Back	Next >	Cancel
	V Please select Se NoteBook © Dock	WiGig MapleP Please select Setup Type: NoteBook Dock wiGig MapleP	WiGig MaplePeak installer Please select Setup Type: NoteBook Dock Obck

Select Hardware Type

Maple Peak can communicate with another device via:

- IF (Intermediate Frequency): a cable is required between the card (XFL connector) and another device.
- RF: the M.2 card is connected to the RFEM.
- 6. Select the relevant mode.

Choose IF mode if you have no RFEM connected to the M.2. This has no effect on the hostless setup; it is in RF mode after disconnecting the PCIe.

•	WiGig MaplePeak installer	- 🗆 ×
	Please select Hardware Type for Dock:	
	⊖ IF	
	• RF	
	< Back Next >	Cancel

Select Number of Antennas

7. Select one antenna.

Select Stacks

- 8. Select stacks to install:
 - Operational stack Select
 - Debug stack Select
 - NDIS driver Don't Select

•	WiGig MaplePeak installer 🛛 🗕 🔍
	Please select Stacks to install:
	✓ Operational Stack
	✓ Debug Stack
	NDIS Driver
	< Back Install Cancel

9. Click Install.

The installer installs and configures the card based on user specifications.

This process takes up to two minutes; a verification popup appears when successfully completed.

Note: If you want to change any selection in the installation, such as hardware type or setup type, you will need to uninstall the SW package (*Windows->Control Panel->Uninstall a program*) and install the application again.

3.2.3 Burning the flash using DFB tool

The DFB tool can be found at C:/Program Files/Intel/WiGig/DFB/WiGigDockFlashBurner.exe.

Run the DFB application on the host to burn the dock Flash with the relevant FW version.

Run the application from the command line with the relevant parameters:

- For factory slot: WiGigDockFlashBurner.exe --factory --package "C: \Program Files\Intel\WiGig\Drivers\Dock_Image_Production.pack"
- For current slot: WiGigDockFlashBurner.exe --package "C: \Program Files\Intel\WiGig\Drivers\Dock_Image_Production.pack"

Note: Burn both the factory slot and the current slot.

• See DFB document (Reference #4) for detailed instructions on how to use the DFB tool.

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WiGig Application User Manual

The WiGig Connection Utility (CU) is a dedicated application that runs on the NB, lists available docks, and creates a WiGig link with a selected dock.

The activity button and LEDs are used for connection/disconnection flows on the dock side.

Double click the WiGig CU icon on the desktop to activate the CU application on the NB side unless you checked the option to launch CU after installation (see Section 3.1 Step 3).

- *Note:* The CU application keeps running from the system tray even if you click the X (close window) icon on the application. Double-click the CU icon in the system tray to open the CU again.
- *Note:* The current WiGig CU is not the final version and will be changed in later releases.

4.1 Turn WiGig on

1. Click the grey OFF button to toggle the WiGig on once the CU application is running.

- 2. The CU scans for available docks and shows a list of docks with the following four statuses:
 - a. *In range paired*: docks that are in range of the NB (for example in the room or cubicle) and are already paired.
 - b. In range not paired: docks that are in range of the NB but did not pair with it.
 - c. *Incompatible*: docks that are incompatible (incompatible FW version or non-interoperable dock) and cannot be paired with this NB.
 - d. Out of range paired: docks that were paired before but are currently not in range.

- 3. The dock name shown in the list (before pairing) is the out-of-box device name and is derived from its MAC address.
- 4. A *Connect* button appears when a listed dock is selected.

4.2 Connect to a new dock

- 1. Select a non-paired dock and click Connect.
 - e. Connecting to a dock for the first time (or to a dock that is set to Always Pair) initiates pairing with the dock.

2. The CU is now waiting for the user to press the function button on the device.

3. The dock's LED turns yellow.

4. Press the functional button on the dock to complete pairing. A connecting message shows on the CU during the pairing process indicating that a connection is in progress.

5. When connected, the status in the CU changes to *Connected* and the dock's LED turns green.

Note: The pairing process can take up to seven seconds. Future connections that don't require additional pairing take less time.

4.3 Manage the connections settings

Edit the connection settings by clicking the 💝 icon when the dock is connected. These are settings for the specific Dock-NB connection.

The following can be set:

• Nickname: a personalized name that represents the specific NB-Dock connection.

The profile name can be modified by the user to a meaningful name such as "Joe office", "Joe home" etc. The profile name is shown in the docks list.

• Auto-connect: default; when checked the NB connects automatically whenever it is in range of the dock.

	Connecti	on Settings	0 0	
1	Dock Information			
	Dock Name:	Intel_WiDock_9C9F		
	Nickname:	My Dock @ Work		
			Change Dock Settings	
	Autoconnect			
	Connection Status			
			OK Cancel	

4.4 Change dock settings

The dock settings can be changed over-the-air after connecting a NB to the dock.

From the *Connection Settings* menu (see previous image) click *Change Dock Settings* (see following image).

Change Doc	k Settings	2 8	
General Info			
Dock Name:	Intel_WiDock_9C9F		
Firmware Version:	1.0.0.21 Check for Firmware Update		
Pairing		_	
	Always prompt devices to pair to this dock	ç	
	Manually connect		
Preferred Channel:	Auto)	
Require a Password to Access Dock Settings			
	Set Passw	rord	
	ОК Сал	cel	

- 1. General Info
 - a. Dock Name: the name that appears in the docks list in the CU application.
 - b. *Check for Firmware Update* (**Not supported in this release**): check if an updated FW version is available for the dock.
- 2. Pairing
 - a. Always prompt devices to pair to this dock: The dock will force pairing each time a device is connecting
 - b. *Manually connect*: when checked the client has to manually connect (using the CU) with this dock each time.

This setting is useful for public docks (for example in airports), to prevent a situation where a NB that connected to the dock now automatically connects (unintentionally) and prevents other devices from connecting.

- c. *Preferred Channel*: the preferred channel to work on (Automatic, 1, 2, 3 or 4). The default is Automatic, the device will choose the relevant channel based on the allowed channels (under regulation constraints). This information is burnt in the OTP.
- 3. Password

Prevents non-authorized users from changing dock settings.

Set a Passwor	rd to Access Dock Settings	8
Require a password	to access and modify this dock's settings	
Password:		
Re-Enter Passwords:		
	OK Cancel	

4.5 Disconnection

4.5.1 Managed undocking

The user can disconnect from the dock through the following steps:

1. Press the FUN_BUTTON on the dock for more than two seconds (long press).

2. Click *Disconnect* in the CU.

The dock's LED turns off and the dock's monitor and devices disconnect.

In auto-connect profiles undesired auto-connection will be blocked after a managed undocking until one of the following conditions apply:

- User exits the dock's range
- Client resumes from a low-power mode (S3/S4/S5 \rightarrow S0) (not currently supported).

4.5.2 Spontaneous undocking

When the user exits the range of the dock without making a managed disconnection, the link drops after attempts to recover. The dock's LED powers off after the link drops.

4.6 Forget this dock

Choose the dock and click *Forget this dock* to delete a dock profile. This deletes the profile of the dock and requires a manual connection and pairing for the next connection. (This option is only available when the relevant dock is not connected).

4.7 Docking

4.7.1 Automatic docking

A connection to the dock begins automatically when the dock is configured to auto-connect and the user enters the dock's range. The NB's lid can be open or closed.

• The dock LED turns green, docking is completed within a few seconds, and the dock monitor shows the display.

4.7.2 Manual docking

No connection is initiated when the dock is configured to manually connect and the user enters the dock's range. The dock's LED stays off.

Clicking *Connect* in the CU next to the dock's name begins the docking process. Once docking is complete the dock's LED turns green and the docking monitor shows the display.

4.8 Dock FW upgrade

The dock FW can be upgraded using the CU application. The dock's FW upgrade does not occur automatically; it requires the user's initiation to allow for user control of the process.

Upgrade the FW from the CU Dock Settings screen.

Change Doc	k Settings	* 0
General Info		1
Dock Name:	Intel_WiDock_C65	c
Firmware Version:	1.0.0.59	Upgrade
- Pairing ————	Always prompt de	vices to pair to this dock
Manually connect		
Preferred Channel:	Auto	
- Require a Password	to Access Dock Settin	gsSet Password
	(OK Cancel

Click the *Upgrade* button and choose the *Dock Image*.

To choose the same version installed on the NB side go to *C:/ProgramFiles/Intel/WiGig/Drivers* and choose *Dock_Image.pack*.

A progress indication for the process displays in the CU. If the upgrade fails, the previous version remains and the user is notified.

Update WiGig Adapter Firmware	8
Dock upgrade status reseting device	
100%	
Close	

When completed, a reset is performed and the device is up with the new version. Close the window.

4.9 Troubleshooting

Follow these steps for a "WiGig driver is disabled" error:

- Exit the CU application (right-click in the tray icon)
- Disable the WiGig device driver in the Device Manager
- Enable the device driver again
- Run the CU application

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WiGig Recording Tool (WiGRT)

WiGig Recording Tool (WiGRT)

The WiGRT is a tool that enables fast and easy debugging of the WiGig product by continuously capturing information from the WiGig device and driver.

The WiGRT tool captures information continuously, allowing debug of an issue without (necessarily) the need to reproduce it. The information is collected in a cyclic manner, saving sufficient data and consuming a limited amount of memory. The user can "Generate a report" at any time and send the zip file to Intel engineers for debug.

5.1 WiGRT installation

The WiGRT tool installer is not part of the operational installer. It should be installed and run after installation of the WiGig operational installer, to start capturing information immediately.

- 1. From the diagnostics layout, run the *Diagnostics.exe* self-extracted file. Then run *WiGRT.bat* from the root path. It will run the relevant installer for your OS, either for 32-bit or 64-bit.
- 2. Click Next.

5

3. Check "I accept the terms in the License Agreement."

WiGig Recording Tool (WiGRT)

뉑 WiGig Recording Tool Setup		
End-User License Agreement Please read the following license agreement carefully	(intel)	
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING. The terms of the License Agreement delivered with the software and any associated materials (collectively, the "Software") you download controls your use of the software. If no License Agreement is delivered with the Software, the terms and conditions of the Intel Software License Agreement contained herein controls your use of the Software.		
INTEL SOFTWARE LICENSE AGREEMENT	-	
☑ I accept the terms in the License Agreement		
Print Back Next	Cancel	

4. Choose Complete.

😸 WiGig Recording Tool Setup	- • -
Choose Setup Type Choose the setup type that best suits your needs	(intel)
Ivpical Installs the most common program features. Recommended for	most users.
Custom Allows users to choose which program features will be installed they will be installed. Recommended for advanced users.	and where
Complete All program features will be installed. Requires the most disk spa	sce.
Back Next	Cancel

5. Click Finish.

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WiGig Recording Tool (WiGRT)

See the following icon on your desktop:

Note: The application starts running automatically. The icon is in the system tray.

5.2 How to use WiGRT

The WiGRT tool runs in the background from the system tray and requires minimum intervention of the user.

It starts capturing information immediately.

Right-click the WiGRT icon to show a menu with three options:

- Generate Report
- Settings
- Exit (to close the application and stop capturing data)

5.2.1 Generate Report menu

Click Generate Report from the WiGRT menu to document an issue to report to Intel's engineers.

Enter details about the specific issue in the popup window (example image follows).

Note:	Adding your informati	ion is highly recomm	ended but is not mandatory.
-------	-----------------------	----------------------	-----------------------------

🖳 Your Info	×
Enter short description	
Scenario xyz	
Enter details	
NB type X connected to a Dock When runing a video, issue X happened]	
Ok Ignore	

Selecting *Ok* (or *Ignore* if you didn't enter details) saves a zip file under %*ProgramData*%*Intel**WiGig**WiGRT**logs*.

The name of the zip file includes the computer name, the date and the time to easily identify the relevant report (zip format example: COMPUTERNAME323-060314-144436).

This zip file should be sent to Intel's engineers for further investigation.

5.2.2 Settings menu

The Settings menu is available to provide additional debugging capabilities and **should only be used** when instructed by Intel's engineers.

5.2.2.1 XML settings

When additional or different information is required for a specific scenario, you might have to choose settings from the list and click *Set*. This will send the device the info in the XML file with the relevant settings.

The WiGRT tool installer provides a few XML files for pre-defined scenarios. If you are working with an Intel engineer on a specific issue, you might receive a proprietary XML file; place the XML file under: %ProgramData%\Intel\WiGig\WiGRT\Settings.

Figure 5-1 XML settings

🖳 Settings	
XML settings example_settings - Choose settings - example_settings tempk_settings Restore defaults	
Assert timer Timer interval Short interval Long interval Enable Assert Report	
Set Cancel	#

