

Intel Delivering a No Wires Experience in Healthcare

April 2015

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The information in this document is valid for content published starting from October 2013. This material expires on June 2014. New products or information introduced during this period may result in an update to this document or a Q & A published separately.



Mobile Technology is Transforming Healthcare

Increased productivity

Better patient engagement

Satisfied health care workers

Improved quality of care



Mobility – The Future of Healthcare

86%

Growth forecasted in clinical mobility spending between 2011 and 2016

Source: http://www.mobilehealthmarketnews.com/total-u-s-clinical-mobility-spending-forecast-to-reach-5-4-billion-by-2016/

- Delight clinicians with powerful, easy-to-use mobile devices
- Mobile computing enables hospitals to meet ACA requirements:
 - Collaboration
 - Care coordination
 - Efficiency of care



"No Wires" – The Key to Maximum Mobility

Yesterday: Laptops were mobile, but still required 4 critical wired connections:

- LAN cable later replaced by Wi-Fi
- Display cable (to connect to larger display)
- Physical docking connections
- Power cord





"No Wires" – The Key to Maximum Mobility

Today: Eliminating the wires

- Wireless Display
- Wireless Docking
- Wireless Charging



Wireless display

Wireless Display with Intel® Pro WiDi

Doctors can share charts and images to educate medical students and clinicians

- Enhances education
- Improves communication







Wireless Display with Intel® Pro WiDi

Doctors can collaborate on complex cases, presenting patient charts and images on large screens

Improved care coordination



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Wireless Display with Intel® Pro WiDi

Nurses can educate patients on TVs in patient rooms or exam rooms

 Better educate patients on condition management

Simplified communication of release instructions

Improved patient satisfaction

Reduced readmissions

Reduced length of stay





Wireless Docking via Intel® WiGig

Nurses and physicians can instantly dock laptops and tablets at nursing stations and desks

 Gain the power of a fully-equipped workstation (displays, keyboard, mouse, printers, etc.)

Improved clinical workflow

Improved clinical productivity







Wireless Charging (future)

Hospital nurses can charge laptops or tablets at nursing station

- Improved staff satisfaction
- Seamless clinical workflow



Wireless Charging (future)

Homecare nurses can charge laptops or tablets in their car

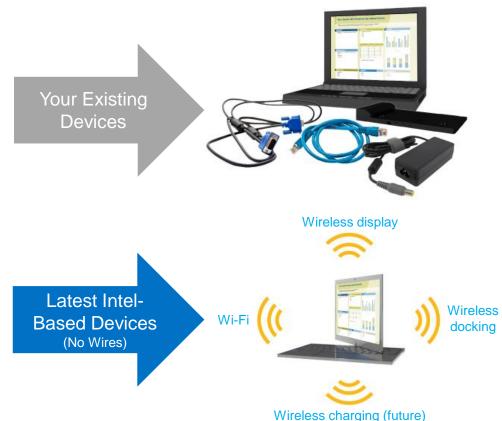
Improved productivity

Better clinical workflow



Why Refresh with No Wires from Intel now?

- Improved clinical workflow
- Staff satisfaction
- Increased productivity
- Patient satisfaction/engagement
- Reduced readmissions/length of stay
- Better quality of care
- Enhances medical student training
- Better collaboration





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Backup

WiGig Design Win Funnel

OEM	Platform	Availability	Dock Availability
HP	Elite x2	Now	Now
Dell	Latitude 7250	Late Mar'15	Late Mar'15
	Latitude 7450		
	Latitude 5250		
	Latitude 5450		
	Latitude 5550		
	Latitude 7350 (2in1)	Late Apr'15	



Intel® Pro Wireless Display

Creative, Productive, Collaborative Meetings

WIRELESS Stay productive in meetings

FLEXIBLE Support wide variety of devices

SHAREABLE Easily pass control while collaborating

PRIVATE Avoid sharing with the wrong person

SECURE Keep your network and laptop data protected

MANAGED Stay in control



Intel® Pro WiDi Considerations

Positioning

- · Remote management of client and conference room
- · Employee productivity
- Cost savings
- Safety and security
- Full guest support and broad range of devices
- Doesn't consume corporate network resources

Deployments

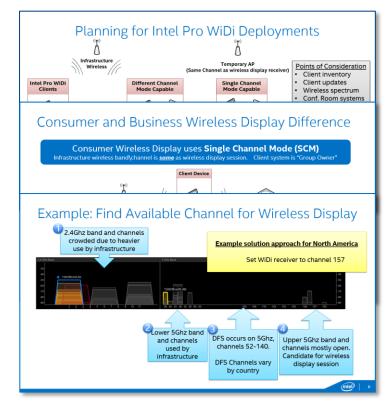
- · Auto GO, bandwidth options, channels can be set
- Protecting the network and spectrum
- Deployment guide

Dedicated resources and experts to assist with Intel® Pro WiDi deployments and questions

ISMC References

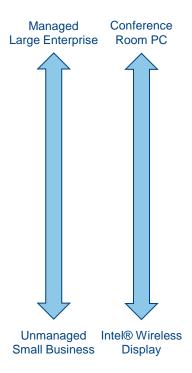
- vPro Solutions Update for BDMs, SEG-BCPD-vPro-200, Galileo 1001
 - **9 Feb:** 1:30pm **10 Feb:** 10:30, 2:30
- Implementing No Wires, Demo-NoWires-200
 - 9 Feb: 11am, 3m 10 Feb: 10:30am; 2pm
- · Demo Showcase, Download Bar

Deployment Resources





Intel® Wireless Display in Business



"Campfire Creek"

- Intel® vPro[™] based device
- Campfire Creek Collaboration Platform
- Intel® Pro Wireless Display Soft Receiver
- Wireless display from anywhere
- Direct peer-to-peer

- · Secure and managed
- Optimized wireless network connection
- Windows and OS X
- Additional collaboration expandability

Intel® Pro Wireless Display

- Secure
- Direct with video
- Managed wireless display receiver

- Privacy screen and presenter controls
- Works on 4th & 5th Gen Core and CHT Atom tablets

Usages

- Campfire Creek
 - Workplace transformation
 - · Environment integration
 - Extensibility
 - Future-proof
 - Collaboration beyond one conference room
 - Interactions, whiteboard, annotations
- Wireless Display
 - Content Display

Intel® Wireless Display

One to one wireless display with video

Intel® Wireless Docking – Designed for Productivity

At your desk (home or office)

- Docking is complete by the time you sit down
 - Auto-dock starts when you approach your desk
- Full experience without opening the lid
 - Wake the device from the dock or peripherals
- Saves battery life when docked
 - Dock with close lid will reduce overall power consumption
- Simple to operate
 - Automatic configuration, SW updates

In the office

- Robust performance in dense environment
 - Short range & directional
- Enables multi users share same dock at different times
- Select remote management features are available
 - Centralized discovery & upgrade of dock firmware supported



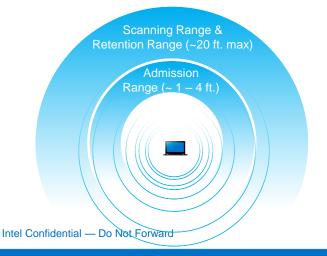
Intel® Wireless Dock – Ecosystem & Considerations



Dell® Wireless Dock D5000 Available 1H 2015 \$249 MSRP



HP® Wireless Dock Available 1H 2015 \$TBD MSRP



Positioning

- Standardizing on mechanical docks requires support that span vendors and generations
- Freedom of orientation within their offices
- Delighting their end users with exciting usages

Security

- By nature, WiGig is a secure technology
- Wireless docking uses AES 128 bit HW encryption for all data passed between the client and dock
- User profiles are secure and saved on the client PC, not the dock.

Remote Management

- SW/FW updates can be easily pushed by IT patch tools or management consoles to WiGig-enabled clients
- Intel® SCS 10 support available for remote discovery of detailed WiGig client information via Microsoft's SCCM management console (via SCS add-on) or PowerShell

Operating in Dense Environments

- WiGig signals have limited range
- WiGig operates on multiple channels and can select the optimal channel to use based on congestion levels.
- Ranges for best performance may differ for different form factors & orientations

What is the best docking experience in 2015?



Wireless

Frequent docking and undocking

- No connector or cable dependencies
- Evolving charging methods, longer client battery life, wireless charging

Intel® Wireless Docking featuring Intel® Wireless Gigabit

- · Freedom from wires experience
- 7 Gbps transfer rate



Single Cable

Infrequent docking and undocking High performance monitors and peripherals

- Small, universal, USB Type-C connectors for USB and Thunderbolt™ technology docks
- Data/video and up to 100W of charging power over a single cable

Thunderbolt™ technology (SKL TTM)

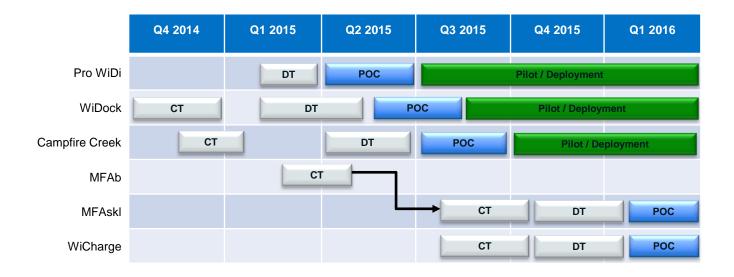
- Thunderbolt™: 40 Gbps
- USB 3.X: 5-10 Gbps

Wireless Charging Product Strategy: Lead with Accessories



1H'15 2016+ 2H'15 Sleeves, Back covers 2 in 1 Detachables - Keyboard Clamshell/Convertible - Covers WIP Smartphones, Phablets 8-10" Tablets 2 in 1 Convertibles, Clamshells, Detachables (TBD) Over the table ("Seek") Under the table ("Hide")

2015 Pilot/PoC Roadmap





Intel Pro WiDi Segmentation

The complete Intel® Pro WiDi solution requires

- An Intel® vPro[™] technology platform
- An Intel® Pro WiDi-certified Receiver











Transmitters





Intel® Pro WiDi Clients

(with Intel WiDi app)

Intel® WiDi Clients (with Intel WiDi app)

Miracast Clients

Certified Intel® Pro WiDi

Intel® Pro WiDi WPAN/WLAN isolation WPAN restricted to WiDi **Channel Management Privacy Features Managed Meetings**

"Business WiDi" Performance & Quality certified **Channel Management**

"Business Miracast" Client Performance & Quality, DCM optional receiver **Channel Management**

Certified Intel® WiDi

Receivers

Intel® WiDi Performance & Quality certified WPAN/WLAN isolation WPAN restricted to WiDi **DCM**

Intel® WiDi Performance & Quality certified DCM

"Client Legacy" Client Performance & Quality optional, DCM optional

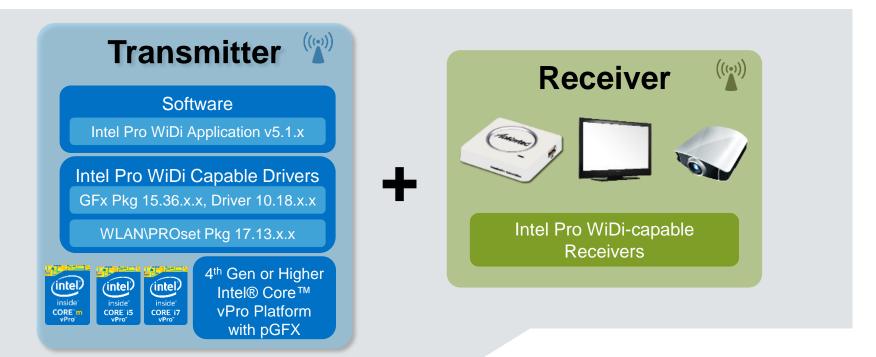
Miracast

"Intel® Miracast" **RX Performance &** Quality optional WPAN/WLAN isolation WPAN restricted to WiDi **DCM**

"Receiver Legacy" Receiver Performance & Quality optional **DCM**

"Caveat Emptor" Overall Performance & Quality optional, DCM optional

An Intel® Pro WiDi solution is...



Intel® Pro Wireless Display Experience



Several Wireless Display Solutions Today

Similar Devices to WiDi (Miracast)

Apple* TV AirPlay

- Is a set-top box for Apple* products, Apple* applications and Apple* content
- Uses the network NOT a direct connection...

Google* Chromecast

- Is a set-top box from Google* for the (non-Apple*) Service Providers: Netflix*, YouTube*, Pandora*, etc.
- In order to show anything the application needs to be ported to the Chromecast*...

Why IT is looking for a different solution...

Network bandwidth, content and security issues

- Display streaming takes up too much bandwidth from the WiFi LAN, 4-10M...
- Devices like Apple* TV and Chromecast*
 - Get their content directly from the internet, allowing malicious or undesirable content
 - Do not support the security required by enterprise networks

Network bandwidth and security issues

- Apple* TV has screen mirroring, but only in specific apps...
- Chromecast* has screen mirroring, but must have the Chrome plug-in and tab open; but poorer quality than

Intel WiDi displays ALL content (securely) to any Miracast receiver, with high quality, reliability and security on Pro WiDi receivers



Intel® WiDi vs. Competition

	Apple* Airplay	Google* ChromeCast	Intel WiDi
os	-iOS -Mac OS X	-Windows -Android, Chrome -iOS, OS X	-Windows 7/8/8.1 -Android OS 4.2 and above
Apps	Most Apps, content	Few apps: HBO GO, Netflix, Hulu Plus, Pandora, YouTube, Google* Play Movies & TV and Google* Play Music and etc.	All apps, content
Transmitter Ecosystem	Apple* devices only: phone, tablet, laptop	Works on any phone/tablet/laptop with right OS and app support Tab/Screen casting only on PC, not supported on smartphone and tablet	Intel Core based laptop Intel Atom based phone/tablet
Receiver Cost	\$99, 1 device only, not worldwide available	\$35, 1 device only, supported in US only	Variety of WiDi adapters Free in some TVs
Ease of use /Compatibility	Single receiver with Apple* brand Easy to install and use	Single receiver with Google* brand Easy to install and use on smartphone and tablet Complicate setup on PC	End to end interoperability and compatibility with WiDi certified receiving devices
Screen Mirror	Yes	Limited via Chrome browser on PC, not supported on smartphone and tablet	Yes
Pro IT	No	No	Yes