Device Finder Installation and Quick Start Guide

Minimum Hardware/Software Requirements

- Computer running one of the following operating systems Windows XP (or better) Mac OS X (or better) Linux (with GUI interface)
- 2. Sun Java runtime environment (JRE) version 1.5.0_22 or above. (For Mac and Linux users only). For Windows application is packaged with its own JRE. On Macintosh, JRE is installed by default by manufacturer. On Linux, usually Open JRE is a default JRE but user can install Sun JRE or use Open JRE to run the application however, it is not guaranteed that all features of application will work as expected with Open JRE on Linux systems.
- Computer must be connected to TCP/IP network using either Ethernet or Wi-Fi.
 (Note: Virtual machines with bridged network settings can also be used to run this application.)

Installation (Windows PC)

- 1. Download application Device Finder.exe file for Windows from product website.
- 2. Unzip the file and go to the Device Finder directory in your unzipped folder.
- 3. Run setup.exe file by Double Clicking it.
- 4. If security warning window appears as shown below, Click Run.

Open File	- Security Warning
The pu run this	ublisher could not be verified. Are you sure you want to software?
	Name:V1.0_04-12-2012\Windows 32-64 bit\Setup.exe
	Publisher: Unknown Publisher
	Type: Application
	From:
	<u>B</u> un Cancel
8	This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust. <u>How can I decide what software to run?</u>

5. Windows will run installer and show following window, **Click Next** here.

o Device Finder Setup		x				
Welcome to Device Finder Setup						
	Welcome to the Wizard for Device Finder Setup.					
Collecting information						
Preparing installation						
Installing	The Setup Wizard will install Device Finder on your computer. Please dick "Next" to continue.					
Finalizing installation						
HALL RESEARCH						
	< Back Next > Cancel					

 Installation wizard will then ask user for directory path to install Device Finder. By default C:\Program Files (x86)\Hall Research\Device Finder\ is selected however user can select any directory by clicking Browse. To use default directory and continue installation Click Next.



7. **Click Install** to install Device Finder in the next installation window. Installation will start after install button is pressed. Please be patient until installation is finished.



8. After installation is complete **Click Finish** to launch Device Finder.

o Device Finder Setup		×
Device Finder Setup Comple	te	
 Collecting information Preparing installation Installing Finalizing installation 	Click the "Finish" button to exit the Setup Wizard.	
KR HALL RESEARCH		
	< pack Cancel	

9. If Windows Security Alert window pops up, **check Private network box** and **Click Allow Access** to allow Device Finder to talk to Hall Research devices in your local network.

(FYI: - Windows Firewall by default blocks all applications (except web browsers) which try to access outside network. This protects your computer and other computers on your network from sniffing and malicious attacks. However one can manually add applications that one trusts on to the firewall exception list. By Clicking 'Allow Access' you are allowing windows to add the Device Finder to the firewall exception list.)

Windows Se	curity Alert	X		
💮 Win	dows Firewa	ll has blocked some features of this program		
Windows Firewa 2011-2012 on a	all has blocked som all public and privat	e features of Device Finder 1.0 © Hall Research, Inc, e networks.		
	Name:	Device Finder 1.0 © Hall Research, Inc, 2011-2012		
GR3	Publisher: Hall Research			
	Pat <u>h</u> :	C:\program files (x86)\hall research\device finder\device finder.exe		
Allow Device Fir	nder 1.0 © Hall Res	search, Inc, 2011-2012 to communicate on these		
Private n	networks, such as n	ny home or work network		
Public ne because	tworks, such as the these networks of	ose in airports and coffee shops (not recommended ten have little or no security)		
What are the ri	sks of allowing a pr	ogram through a firewall?		
		Allow access Cancel		

Use Quick Start Guide below to know more about Device Finder and its features.

Installation (Apple Mac OS X)

- 1. Download Device Finder.zip for Mac OS from product website.
- 2. Double Click downloaded Device Finder.zip to unzip it.
- 3. Unzip operation will create a new directory named Device Finder at the same location where Device Finder.zip is.
- 4. Newly created Device Finder directory should have two files named Device Finder and Device Finder 64. Both files are executable files for 32 bit and 64 bit OS respectively.
- (FYI: From Mac Snow Leopard all Mac laptops and desktops are shipped with 64 bit OS.)

Use Quick Start Guide below to know more about Device Finder and its features.

Quick Start Guide

Launch Application:

Use one of the following options to Run Device Finder depending on your operating system.

Windows OS: Double Click icon on the Desktop Or Click Start->Device Finder Or Click Start-> All Programs ->Device Finder->Device Finder.

Mac OS: Open folder created after unzipping Device Finder.zip and **Double Click** Device Finder file in it to run the application.

Linux OS : Extract tarball and go to Device Finder directory after extraction is complete. Open bin directory in there and **Double Click** DFV1.0.jar to run the application.

It should pop up following application main window.

Device Finder						
<u>F</u> ile <u>T</u> ools <u>H</u> elp						
Q 1 Search Assign IP						
HR Devices						
IPv4 Address	IP Type	Mac Address	Model	Name	Location	Firmware Version
192.168.123.132	DYNAMIC	00:20:4a:c0:b5:83	Hall Research HSM-I-08	-08 HSM Matrix	Hall Research	1.0
192.168.123.174	DYNAMIC	00:20:4a:c0:b5:7d	Hall Research HSM-I-08	-08 HSM Matrix	Hall Research	1.0
Possible HR Devices (likely to	be Hall Research products wit	th outdated firmware)				
IPv4 Address	ІР Туре	Mac Address	Model	Name	Location	Firmware Version
J						Done

Figure 1. Application main window

Find HR Devices:

To find Hall Research devices on the network Click Search icon on the tool bar in main window OR press (F5). Progress bar at the bottom of page will show search progress. If sorting is enabled results will be displayed according to sort order.

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Sort Displayed Results:

To sort results with respect to a column click the respective column header. Arrowhead in column header will indicate current sort order. Arrowhead pointing up indicates ascending order and arrowhead pointing down indicates descending order as shown in examples below. Results can be sorted with respect to any column displayed with one column at a time. I.e. One can sort list by IP address, Mac address, Model name, Device name, Device location and Firmware version.

IP Туре	Mac Address	Model	Name	Location	Firmware Version
DYNAMIC	00:20:4a:c0:b5:83	Hall Research HSM-I-08-08	HSM Matrix	Hall Research	1.0
DYNAMIC	00:20:4a:c0:b5:7d	Hall Research HSM-I-08-08	HSM Matrix	Hall Research	1.0
	IP Type DYNAMIC DYNAMIC	IP Type Mac Address DYNAMIC 00:20:4a:c0:b5:83 DYNAMIC 00:20:4a:c0:b5:7d	IP Type Mac Address Model DYNAMIC 00:20:4a:c0:b5:83 Hall Research HSM-I-08-08 DYNAMIC 00:20:4a:c0:b5:7d Hall Research HSM-I-08-08	IP Type Mac Address Model Name DYNAMIC 00:20:4a:c0:b5:83 Hall Research HSM-I-08-08 HSM Matrix DYNAMIC 00:20:4a:c0:b5:7d Hall Research HSM-I-08-08 HSM Matrix	IP Type Mac Address Model Name Location DYNAMIC 00:20:4a:c0:b5:83 Hall Research HSM-I-08-08 HSM Matrix Hall Research DYNAMIC 00:20:4a:c0:b5:7d Hall Research HSM-I-08-08 HSM Matrix Hall Research



HR Devices						
IPv4 Address	IP Type	Mac Address 🛛 🔻	Model	Name	Location	Firmware Version
192.168.123.132	DYNAMIC	00:20:4a:c0:b5:83	Hall Research HSM-I-08-08	HSM Matrix	Hall Research	1.0
192.168.123.174	DYNAMIC	00:20:4a:c0:b5:7d	Hall Research HSM-I-08-08	HSM Matrix	Hall Research	1.0
132.100.123.174	DINAMIC	00.20.44.00.00.14	Han Nesearch Hism-1-00-00	115M MOUTA	nui Research	1.0

Figure 3. E.g.2 Sort results in the descending order of MAC addresses.

Assign new IP address:

To assign new IP address to any device in the list, first select device to which you want to assign IP address to. Selection should highlight device row with blue color. Then Click Assign IP icon in the tool bar in main application window OR press (F7).

A password window will pop up where user is supposed to enter his/her admin password which he/her set from web interface. Factory Default password is "pass". (Note: If password is changed after running Device Finder, user must run Search operation again in Device Finder, for new password to take effect to authenticate Assign IP request. If Search is not run after changing password then old password should be used to Assign IP.)

If password authentication is successful a new window titled Assign IP address will pop up as shown in Figure 4.

Make proper selection for static or dynamic IP address assignment. If static option is selected, enter valid IP, Subnet and Gateway addresses. Also make sure that values are assigned based on your network configuration. If you assign values outside your local network range, Device Finder will still find that device but the device will be inaccessible from web interface. If you are not sure of IP, Subnet and Gateway values, select dynamic assignment option.

Assign IP address			×			
This step will force reboot on device for settings to take effect.						
Assign Static IP Address						
Enter New IP Settings						
IP:]				
SUBNET:		j				
GATEWAY:		Ī				
🗇 Assign Dynamic IP using DHCP						
		Next	Cancel			
,						

Figure 4: Assign New IP address.

After making Static/Dynamic selection and confirming values click Next. New confirmation dialog will pop up to confirm your action. Click Yes if you are certain about your action or click No otherwise. If you click Yes device needs to reboot for new settings to take effect. So please be patient until progress bar ends and Next button changes to Rescan. Closing the dialog before will not cancel your action.

Confirmation dialog will not appear in case if an IP or Subnet or Gateway value is invalid, under static assignment selection. Invalid value will be flagged with text "Invalid' shown in red color, next to the invalid value.