Discovering drive.ueb Devices in savvy with TWO Network Interfaces Enabled

This is an Application Note that describes problems that may occur with discovering devices and setting device IP addresses when the computer is connected to more than one network interface. This is commonly encountered when using WiFi for Internet access and a wired interface to an isolated machine network.

In order for savvy to use Set IP Addresses for System and Discover Local Devices Now, the application uses a method called IPv4 link-local multicast.

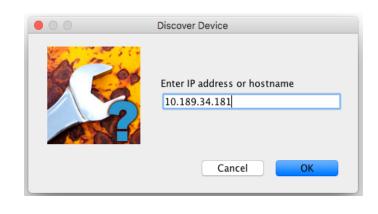


Multicast is a method that will send a single transmission of data to all network ports. Due to the limitations put on by the operating system, multicast is unable to work on a computer using two active network interfaces at the same time (e.g. WiFi and Ethernet).

If a *drive.web* device is unable to be discovered via "Discover Local Devices Now", there are ways around the use of multicast. This note is written with the assumption that the computer network is set up with appropriate IP address and subnet mask that would allow communication with *drive.web* devices.

If the IP address of the device *is known*, use Directory \rightarrow Discover Device by IP Address... This will open a new window. Enter the IP address of the device in the text field and click the OK button. The *drive.ueb* device should now be visible in the Device Directory.

ile	Directory	Window	Commerce	Help		
	Setup Discovery Discover Local Devices Now Discover Device by IP Address					
		Discover Devices from File				
	Discover					
	Discover	on Serial P	ort			
		Create Phantom Device Import Data and Create Phantoms				
	View As Sort	List		•		
	Devices Delete De	evices		•		
	Create Discovery File Copy Discovery Set					



Set IP Addresses for System:

If the IP address of the device *is NOT known*, start by turning off the WiFi on the computer temporarily, and then use Directory \rightarrow Discover Local Devices Now. Once the *drive.ueb* device is in the Device Directory, WiFi can be turned on again.

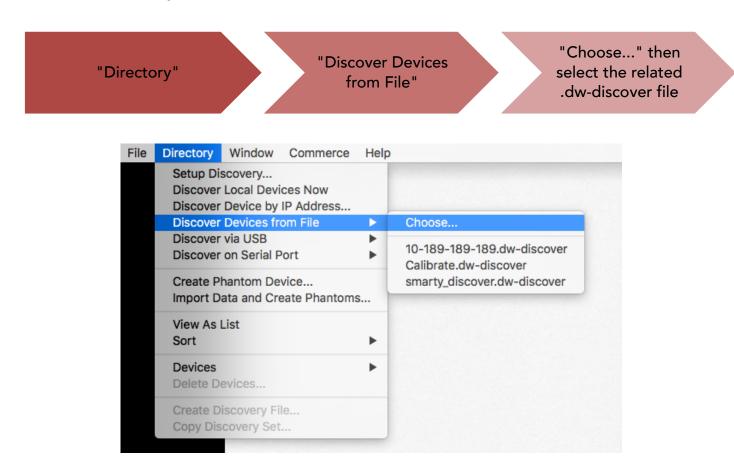
To avoid turning off the WiFi for future use, *savvy* has the option to create a Discovery file. This file allows specified devices to be discovered without the use of multicast and can include as many *drive.web* devices as desired. Open Directory \rightarrow Create Discovery File...

File	Directory	Window	Commerce	Help			
	Discover Discover Discover Discover	Devices fro	IP Address om File	\$\$ • •			
		hantom Dev ata and Cre	vice eate Phantoms	i			
	View As I Sort	List		•			
	Devices Delete De	evices		•			
	Create D	iscovery Fil	e				
	Copy Dis	covery Set.					

The window to save a discovery file will open. Ensure any needed devices are checked, enter a file name in the Save As: text box, and save the file locally.

	Save
Save As: smarty_di	scover
All None 10.189.34.181	Name ^ Date Modified
File Format: drive	e.web discovery (.dw ᅌ
New Folder	Cancel Save

To use the Discovery file:



If the IP address of the *drive.web* device needs to be changed without the use of multicast, do not use File \rightarrow Administrate \rightarrow Set IP Addresses for System... It is possible to set the IP address of an individual device; the serial number of the device must be known to use this method. Open File \rightarrow Administrate \rightarrow Set Device IP Address and a second window will open. Enter the serial number and the *NEW* IP address to be assigned. The *drive.web* device will restart and return to the Device Directory.

New Viewer	ЖN			Set IP Address
Open Device Directory Open savvyPanel Open Connections List Open Dock File Open Recent Close Utilities	¥O ► ¥W		drive.web syster TCP/IP network, that network's s	resses cannot be set up via USB. If you m is to be integrated with an existing it is imperative that you coordinate wit ystem administrator – assigning an inv ress will cause malfunctions.
Save Save As	ЖS		Serial Number	0-4-bb-
Capability: Administrate	•		IP Address	
Administrate		Set IP Addresses for System		
		Set Device IP Address		
		Set Password For View Set Password For Operate Set Password For Engineer Set Password For Administrate	Network Inform	Cancel