

Test Case	Requirement Specification Number	Expected Result	Actual Result
Perform a manual survey	1, 10, 12	Survey of the test device should be started. Survey may or may not succeed, but it should start.	
Perform an "Auto Survey" based on a MAC Address	1, 9, 10, 12, 13, 15	An auto survey should start and complete successfully (HTTP survey) after the AP is turned off, auto survey is configured, and the AP is started again. (scanning is on at all times).	
Perform an "Auto Survey" based on a Network Profile (not MAC Address)	1, 9, 10, 12, 13, 15	An auto survey should start and complete successfully (HTTP survey) after removing the test network, configuring a network profile, and re-starting scanning	
Perform a SNMP survey	1, 10, 11a, 12, 14	Survey should fail on a Linksys WRT54G, because it does not support SNMP. Should be able to survey and identify a Net gear WG602v2	
Perform a HTTP survey	1, 10, 11b, 11c, 12, 14	The survey should identify the test AP as a Linksys WRT54G. The ./capture/http directory should contain one file (file name is composed of the said + MAC Address of the test AP), which is an archive of the device's web interface.	

Perform a UPnP survey	1, 10, 11d, 12, 14, 16	The survey should identify the test AP as a Linksys WRT54G. In addition, the WAN IP address should also have been identified. The WAN IP address can be view from the "General" tab on the profile details dialog box.
Associate with a network using WEP encryption	1, 10, 12, 17	Same results as the previous test  Survey should be successful. Using a wireless sniffer or by checking the AP's status page it should show that a client using the MAC address assigned for this test associated.
Spoof the MAC address of another client	1, 10, 12, 18	
Capture error codes reported from the Access Point to the client	1, 10, 12, 19	
Capture all packets sent or received by the client	1, 12, 20	One or more pcap files shouldl be generated in the capture directory.
Test Sundew effect on intrusion detection programs, firewalls, etc		

## Comment

Select the desired network in the Sundew Mission Window, then right click and select "Survey"

This is also called "Batch" mode.

- (1) Start Sundew
- (2) Enable scanning in Sundew
- (3) Turn off the test AP
- (4) In Sundew, go to the profile details for the desired network and on the "Survey Settings" tab enable auto survey wait a threshold of at least 30. Make sure there is a check next to "HTTP Survey". Save changes to the dialog
- (5) With the network still selected in the Mission Window, press "Reset Status" (if enabled)
- (5) Shutdown Sundew and turn on the AP
- (6) Start Sundew, it should automatically start the survey

**Not a requirement - will be dropped!**

- (1) Enable an AP that includes a SNMP agent (A Netgear WG602v2 is a good candidate).
  - (2) Select the profile in the Mission Window and press the "Edit Details" button). Go to the "Survey Settings" tab.
  - (3) Check the SNMP Survey option, uncheck HTTP and UPnP survey.
  - (4) Start the survey
- NOTE - the Linksys WRT54G does not have a SNMP agent, so it will fail this test

- (1) Remove all files in the directory capture/http.
- (2) Edit the "Survey Settings" so that only HTTP Survey is selected and the "Web Capture" options is enabled.
- (3) On the "Security Settings" tab make sure the admin username and password is set for the device.
- (4) Save the profile details and press "Reset Status" (if enabled).
- (5) Start the survey

- (1) Configure the device profile as above, except make sure that the UPnP Survey option is selected, NOT the HTTP Survey option.
- (2) Start the survey

- (1) Enable WEP encryption on the test network
- (2) Enter the WEP key on the "Security Settings" tab of the device profile.
- (3) Start the survey

- (1) From the "Connection Settings" tab on the device details dialog select "Manual MAC Address" and then enter a 6 digit MAC address (in hex).
- (2) Start the survey

- (1) Delete all files in the capture directory
- (2) To start the packet capture, right click on the test network and select "Packet Capture". This should start the packet capture process, where data is written to the capture subdirectory. These files can be viewed with Ethereal or similar tool.

Not tested. Sundew is an active survey tool, it be detected.