



**FW Version:** 4.4.0.3

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# **Revision History and System Requirement:**

Firmware Version	Date	Model Hardware	History
4.4.0.3	18 May 2015	DWC-2000/A1	Bug fixes and enhancement
4.4.0.2_B401	03 Mar 2015	DWC-2000/A1	Bug fixes and enhancement
4.4.0.2_B201	11 Feb 2015	DWC-2000/A1	Bug fixes and enhancement
4.4.0.2	13 Jan 2015	DWC-2000/A1	Bug fixes and enhancement
4.3.0.3_B402	25 Nov 2014	DWC-2000/A1	<ol> <li>Bug fixes for 256 AP test</li> <li>Add new Features</li> <li>New features on CLI interface</li> </ol>
4.3.0.3_B301	23 Oct 2014	DWC-2000/A1	<ol> <li>Bug fix</li> <li>Security Vulnerability Addressed</li> <li>OpenSSL vulnerability</li> <li>(CVE-2014-3566)</li> <li>DWC-1000 and DWC-2000 are not vulnerable to SRTP Memory Leak</li> <li>(CVE-2014-3513).</li> <li>DWC-1000 and DWC-2000 are not vulnerable to Build option no-ssl3 is incomplete (CVE-2014-3568).</li> </ol>
4.3.0.3_B201	26 Sept 2014	DWC-2000/A1	1. Bug fix
4.3.0.3	21 Aug 2014	DWC-2000/A1	1. Bug fix
4.3.0.2_B003	17 Jul 2014	DWC-2000/A1	1. Security Vulnerability Addressed OpenSSL vulnerability (CVE-2014-0224)

# **Firmware Details:**

Image Version	HW	MD5 Checksum
DWC-2000_A1_FW_4.4.0.3_WW	A1	dd99272b6def114f3afb4df3faac4d40

# **Important Notes:**

1. GNU/Linux Bash Shell vulnerability (CVE-2014-6271)

We have evaluated this vulnerability. DWC-1000 and DWC-2000 are **not** vulnerable to this since these devices do not expose the shell interface through CLI nor WEB interface (including CGI).



## **DWC-2000 Firmware Release Notes**



### Reference website:

http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-6271

http://seclists.org/oss-sec/2014/q3/650

https://blogs.akamai.com/2014/09/environment-bashing.html

2. SRTP Memory Leak (CVE-2014-3513)

We have evaluated this vulnerability. DWC-1000 and DWC-2000 are **not** vulnerable to this since these devices do not support SRTP and based on OpenSSL 1.0.x versions.

Reference website:

http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-3513

3. Build option no-ssl3 is incomplete (CVE-2014-3568)

We have evaluated this vulnerability. DWC-1000 and DWC-2000 are **not** vulnerable to this since the existing code base, we do not configure build option to no-ssl3.

Reference website:

http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-3568

# Notes for Configuration Auto-Backup/Restore in USB Storage:

D-Link DWC Unified Controller support configuration backup or restore automatically while a USB drive is inserted. Following information instructs what condition will perform backup/restore.

- 1. The configuration will be automatically backed up to the USB drive as soon as the USB drive is inserted. The back name has format <Model Name>\_<Serial Number>.cfg provided this USB drive doesn't have a backup configuration file from a DWC already present.
- 2. The system LED on the DWC blinks 3X in amber to indicate a backup operation has started.
- 3. The configuration in the USB drive can be updated if the user manually clicks 'Save Settings' in any GUI page and provided the Model Number and the Serial Number of the DWC matches with the file already present in the USB drive.
- 4. In case of reboot, the DWC checks for the presence of configuration file (with format ModelName\_SerialNumber.cfg). If found, the configuration from the USB drive is restored on the DWC. If a configuration file with the correct format is present in both connected USB drives, the configuration from the first USB drive will be used to restore the DWC.
- 5. The USB drive can have only one configuration with the above mentioned format for each model name.
- 6. If the USB drive is plugged in to the DWC which is in factory default state, then during reboot, no backup is taken since no custom configuration file exists in the DWC by that time. The custom configuration is stored on the USB drive once the user clicks Save Settings in any GUI page.





# **Upgrading Instructions:**

### **Upgrading by using Web-UI**

For detailed installation and upgrade instructions, please refer to the Firmware Upgrades chapter in the *DWC-2000 User Manual ver. 1.00.* 

# **New Features:**

Firmware Version	New Features
4.4.0.3	1. Re-name FW 4.4.0.2_B701 to v4403.
4.4.0.2_B601	N/A
4.4.0.2_B501	N/A
4.4.0.2_B401	N/A
4.4.0.2_B201	1. DWL-6700AP support (DWL-6700_FW_v4_4_0_1_B007.bin or later version) 2. Trap Log Enhancement Sync the Log behavior from DW-4026 for DJP (SNR-20141118-001) 3.[HQ20141204000016 WLAN visualization issues (SPR# 43504, 43490, 48266, 48400)
4.4.0.2	<ol> <li>Maximum Clients 30 as default</li> <li>Update Russia Time Zone</li> <li>SSL and TLS: RC4 128-bit , RSA 1024-bit and 2048-bit</li> </ol>
4.3.0.3_B402	1. Facebook Wi-Fi (with DWL-6600AP, 4209_B014/B016 or later version) 2. Forced Roaming (with DWL-6600AP, 4209_B014/B016 or later version) 3. Reboot Scheduler via CLI command  *****************  D-Link DWC> util schedule-reboot true  Operation Succeeded   D-Link DWC> Reboot Reason: reboot scheduler
	The system is going down NOW !!  Sending SIGTERM to all processes.  ********************************



# **D-Link** DWC-2000 Firmware Release Notes



b. Disable: "util schedule-reboot false" c. It will reboot every day automatically during 03:01:10 - 03:01:50, not 3AM sharp. 4. Reboot Trace Code via CLI command \*\*\*\*\*\*\*\*\*\*\*\*\*\* D-Link DWC> show system status System Info System Up Time: 0 days, 0 hours, 36 minutes, 9 seconds Reboot Trace Code: reboot scheduler ModelId: DWC-2000 System Name: DWC-2000 WLAN Module Version: 4.2.0.1 Firmware Version: 4.3.0.3\_B402\_WW Serial Number: S3391E7000045 UBOOT\_VERSION: DWC-2000\_A1\_1.9.0 \*\*\*\*\*\*\*\*\*\*\*\*\*\* 5. Deleting local user via CLI command \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* D-Link DWC> system group add groups-config[userdb]> groupname CP groups-config[userdb]> description Captive-Portal groups-config[userdb]> Privilege\_Type CaptivePortal Y groups-config[userdb]> grouptimeOut 10 groups-config[userdb]> save groups-config[userdb]> .top D-Link DWC> D-Link DWC> system users add users-config[userdb]> username fatman users-config[userdb]> password 12345678 users-config[userdb]> password\_confirm 12345678 users-config[userdb]> groupname CP users-config[userdb]> FirstName Fatman users-config[userdb]> LastName Chen users-config[userdb]> save





	users-config[userdb]> .top
	D-Link DWC> show system users all
	USERS
	ROWID User Name Group Login Status
	1 admin ADMIN Enabled (LAN) Enabled (OPTION)
	2 guest GUEST Disabled (LAN) Disabled (OPTION)
	3 fatman CP Enabled (LAN) Enabled (OPTION)
	D-Link DWC> system users delete_user fatman
	STATUS_OK
	D-Link DWC> show system users all
	USERS
	ROWID User Name Group Login Status
	1 admin ADMIN Enabled (LAN) Enabled (OPTION)
	2 guest GUEST Disabled (LAN) Disabled (OPTION)
	D-Link DWC>
	***********
	a. Delete via User Name: "system users delete_user fatman"
	b. Delete via ROW ID "system users delete 3"
4.3.0.3_B301	N/A
4.3.0.3_B201	RF Scheduler
4.3.0.3	N/A
4.3.0.2_B003	N/A

# **Problems Fixed:**

Firmware Version	Problems Fixed
	1. [HQ20150409000007] Channel information incorrect on Managed AP page
4.4.0.3	2. [HQ20150127000021] Auto Channel in 5G not work
4.4.0.3	properly[DUSA20150122000002-USA]
	3. [HQ20150323000013] Authorize.net for paid SLA isn't working for client





	installation[DUSA20150320000003-Canada]
	4. [HQ20150402000018] Firmware problem
	5. [HQ20150407000016] Unable to delete some users from
	DB[DRU20150406000005-Middle East]
	6. [HQ20150409000010] We can add new vlan id to poll list via MIB browser
	(wsL2DiscoveryVlanRowStatus), even this vlan id not existed on clan list.
	7. [HQ20150410000004] Does DWC-2000 support QoS Differentiated
	Services?
	1. [HQ20150126000011] Error page in Pre-Authentication
	History[DUSA20150123000007-USA]
	2. [HQ20150123000018] Display error of RF mode (Status > Associated
	Client > Roam History Details)
4 4 0 2 0001	3. [HQ20150326000001] DWC-2000 Service Disclaimer Text character
4.4.0.2_B601	limit?[DUSA20150326000002-Canada]
	4. [HQ20150319000004] DWC-2000 with DWL-8610& wireless
	Authentication[DGC20150305000001-Taiwan]
	5. [HQ20150209000006]
	Temparay_account_issue_in_alert_message_and_time-left_info
	1. [HQ20150127000020] Syslog: Client Association/Roaming/Disassociation
	logs
	2. [HQ20150209000013] DWC-2000 No Wireless Log messages are showed
	in Web/Syslog Server until added a SNMP Trap agent
	3. [DBG15020232] Incorrect information on the Global status page
	4. [HQ20150129000010] Max User limit[DI20150129000003-Australia]
	5. [HQ20150226000009] VLAN, port VLAN and syslog configuration file is
4.4.0.2_B501	gone after DWC-2000 power cycle.
	6. [HQ20150305000006] Captive Portal redirect feature does not works on
	mobile device
	7. [HQ20150123000017] Peer controller will lose Syn status when we change
	peer configuration at first time.
	8. [HQ20150313000008] SNMP walk time out
	9. [HQ20150313000009] WALK 1.3.6.1.4.1 timeout {AUO project}
	10. [HQ20141230000010] DWC-2000 freeze again in Honk Kong.
	1. [HQ20150122000015] Error page in Channel Plan History after applying
4 4 0 2 0401	manual channel plan [DUSA20150122000001-USA]
4.4.0.2_B401	2. [HQ20150205000007] No terms and services contents when user login
	successful





	3. [HQ20141204000016] WLAN visualization issues
	[DUSA20141204000003-USA]
	4. [HQ20150129000016] Need your help to sync the auto channel algorithm
	version
	5. [HQ20150129000011] DWC vlan issue
	6. [HQ2015021200000] DHCP server for each VLAN
	7. [HQ20150126000011] Error page in Pre-Authentication History
	[DUSA20150123000007-USA]
	8. [HQ20150210000003] Controller reboot/hanging
	[DRU20150208000001-Middle East]
	1. [HQ20150202000009] Managed AP entry number incorrect.
	2. [HQ20150123000017] Peer controller will lose Syn status when we change
4 4 0 2 0201	peer configuration at first time.
4.4.0.2_B301	3. [HQ20150126000009] DWC-2k webUI reset function not work
	4. [HQ20150121000020] WLAN IP address display 10.90.90.90
	5. [HQ20150206000003] How to delete billing user at view account page
	1. [DBG14060135]
	2. [HQ20150113000013] DWC-2000 cannot discover over 277 APs.
	3. [HQ20140728000009] Radio Index Inconsistency across dual band Unified
	AP And Display error on DWC-2000
	4. [DRU20141225000005][HQ20141226000002] MIB file issue
	5. [HQ20141121000001] Display error of Controller MAC Address on AP
4.4.0.2_B201	Details
	6. [DUSA20141119000004][HQ20141218000015]
	7. [DRU20150108000001][HQ20150109000008] Uploading image issue with
	DWC-2000 CP
	8. [DUSA20150122000003][HQ20150123000016] Description of Radio ID in
	AP Profile Radio
	9. [HQ20150119000014] DWC-2000 WebGUI 2.4G Radio Mode List
	1. [DUSA20141119000004][HQ20141121000001] Display error of Controller
	MAC Address on AP Details
	2. [DRU20141109000001][HQ20141110000017] Billing Profile Max Usage
4.4.0.2	Traffic & Redirect Function Issues
4.4.0.2	3. [DI20141104000007][HQ20141104000020] The diagnostic features of
	ping and trace-route not functioning from Web GUI for IPv6 addresses
	4. [DUSA20140913000002][HQ20140915000012] Channel info not
	consistent across standalone and managed and spec of DFS



# **D-Link** DWC-2000 Firmware Release Notes

	1. [DBG14100030]
	2. [DBG14060133] Cannot display other LANs information
	3. [DBG14100282]
	4. [DBG14070166] NB can't get IP address after change VLAN interface
	5. [DBG14100362]
4.3.0.3 B402	6. [DBG14100431]
4.3.0.3_0402	7. [DBG14110054]
	8. HQ20141020000013
	9. HQ20140918000024
	10. 80 MHz for MX (Mexico) country code
	11. 80MHz for CH (Switzerland) (Sync fix from DWC-1000, 4302_B305,
	DEUR20141110000005)
	1. [DBG14100032]
	2. [DBG14100029]
	3. OpenSSL vulnerability (CVE-2014-3566)
	Security Vulnerabilities Addressed: OpenSSL before 0.9.8za, which
	allows man-in-the-middle attack, and consequently hijack sessions or obtain
	sensitive information.
	Reference: CVE-2014-3566
	http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-3566
	<b>Solution:</b> For the fix for this vulnerability issue, we did not upgrade OpenSSL.
	Rather we selectively merged the required changes to resolve the issue into
	the current OpenSSL version 0.9.8za.
	4. Session Ticket Memory Leak (CVE-2014-3567)
4.3.0.3_B301	<b>Security Vulnerabilities Addressed:</b> Memory leak in the tls_decrypt_ticket
1.3.0.3_5301	function in t1_lib.c in OpenSSL before 0.9.8zc, 1.0.0 before 1.0.0o, and 1.0.1
	before 1.0.1j allows remote attackers to cause a denial of service (memory
	consumption) via a crafted session ticket that triggers an integrity-check
	failure.
	Reference: CVE-2014-3567
	http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-3567
	<b>Solution:</b> For the fix for this vulnerability issue, we did not upgrade OpenSSL.
	Rather we selectively merged the required changes to resolve the issue into
	the current OpenSSL version 0.9.8za.
	5. [HQ20140911000006] LADP can't authentication successful after 12
	hours
	6. [DUSA20140727000001][ HQ20140728000009] Radio Index
	Inconsistency across dual band Unified AP And Display error on



	DWC-2000 (radio numbering change issue)
	7. 80MHz Issue - Supporting 80MHz support for Europe countries (validated
	with DWL-8610AP)
	8. [DUSA20140913000003][DBG14090126] Channel status/ eligible or
	supported channels (No matter 2.4Ghz or 5Ghz, the field of support
	channels on "AP Profile Radio" page always shows all support channels,
	even I only select specific channels.)
	9. [HQ20140924000014] Configuration of Img_dwl8610 section in AP
	Firmware Download page is not persisting across reboot.
	1. Network freeze issue
	a. Using Smartbit, forwarding packets with 64Bytes/1G/100%, the
	sample will crash or reboot in few minutes.
	b. Using IXIA with RFC 2544 (packet size 64 byte and use IP header, no
	UDP and TCP header), and 1G/sec to send traffic, DWC-2000 will reboot
	immediately.
4.3.0.3_B201	2. Cannot configure 802.11ac mode
	3. [DBG14040524][DBG14040525][DBG14050115] DWC-2000 should be
	able to handle more than 64 APs with appropriate license
	4. [DBG14060116] In the web page of Discovered AP List, it cannot display
	the information more than 100 AP entries.
	5. [DBG14060173] Failed to copy the AP profile
	1. [DBG14060159] The function of select-All is not work as expectation.
	2. [DBG14060160] Channel bandwidth selection, Basic rate, support rate,
	auto eligible channel not work ( use case woks only issue with the GUI -
	low priority for now )
	3. [DBG14070263] Critical error pop up on peer managed page under cluster
	topology.
	4. [DBG14070261] Peer controller pager showed incorrect device number on
	WEB GUI under cluster topology.
4.3.0.3	5. [DBG14070078] The device shall refuse user to import over-spec number
	of license.
	6. [DBG14070166] NB can't get IP address after change VLAN interface
	7. [DBG14070085] With default built-in license, DUT cannot create over 64
	APs entries in valid AP database
	8. [DBG14070089] The DHCP server available lease time is different
	between LAN-settings and VLAN-settings
	9. [DBG14070109] The RA feature shall not be able to disable while the
	- Land and the state of the sta





	DHCPv6 stateless mode is enabled.
	10. [DBG14070093] DNS host name mapping shall automatically transfer the
	uppercase character. (works as per RFC but we DSR behavior was
	requested ).
	11. [DBG14070107] The feature of "Radius Use Network" is not available on
	DWC-2000, thus it will cause problem if we turn the feature "on", need to
	remove this item from the menu
	12. [DBG14070083] The feature of Session timeout is not work.
	13. [DBG14060564] DWC-2000 doesn't send Radius-request message to
	radius server while running the WPA2-enterprise on 2.4Ghz radio, note
	that, 5Ghz radio is work without problem
	14. [DBG14060167] The incorrect behavior as setup radio "Mode" ( use case
	woks only issue with the GUI - low priority for now )
	15. [DBG14070260] Discover AP pager has pop up critical error under cluster
	topology
	16. [DBG14070102] The managed APs location information will be incorrectly
	overwritten.
	17. Sync DWS-4026 Auto Channel Algorithm Patch at 5GHz Issue
	(DI20140507000005) (The same patch in DWC-1000/v4302, SPR #44243)
	1. Security Vulnerabilities Addressed: Null byte injection attack in URL.
	Reference: http://www.ultsec.com/null-byte-attack.php
	<b>Solution:</b> Avoid parsing the null byte in URL and send back that requested
	URL is not there.
	4. Vulnerability reported by DEU (nu11.nu11@yahoo.com 2013-08-18)
	Network access to the router ports 443 and 23.
	Security Vulnerabilities Addressed: Devices respond clients some
	unnecessary information, and hence give hackers a chance to get a
4.3.0.2_B003	non-persistent root shell.
	<b>Reference:</b> CVE-2013-5945, CVE-2013-5946
	http://packetstormsecurity.com/files/124319/D-Link-DSR-Router-Remote-R
	oot-Shell-Overview.html
	http://dl.packetstormsecurity.net/1312-advisories/dlinkdsrrouter-writeup.tx
	$\frac{\text{http://dl.packetstormsecurity.net/1312-advisories/dlinkdsrrouter-writeup.tx}}{\underline{t}}$
	t http://web.nvd.nist.gov/view/vuln/search-results?query=Dlink&search_typ
	t http://web.nvd.nist.gov/view/vuln/search-results?query=Dlink&search_typ e=all&cves=on
	t http://web.nvd.nist.gov/view/vuln/search-results?query=Dlink&search_typ



5. OpenSSL CCS Injection vulnerability (man-in-the-middle attack)
Security Vulnerabilities Addressed: OpenSSL before 0.9.8za, which
allows man-in-the-middle attack, and consequently hijack sessions or obtain
sensitive information.
Reference: CVE-2014-0224
http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-0224
https://www.openssl.org/news/secadv 20140605.txt
<b>Solution:</b> Update OpenSSL patch to 0.9.8za that addresses the vulnerability.
6. [DBG14050115] The Web UI presented critical error when managed the
maximum supporting number of APs (256 APs)
7. [DBG14070098] DUT shall not answer the ARP request traffic from
different VLAN.
8. [DBG14040541] Device will display failed web page after saving the
configuration of remote management.
9. [DBG14060564] DWC-2000 doesn't send Radius-request message to
radius server while running the WPA2-enterprise on 2.4Ghz radio, note
that, 5Ghz radio is work without problem.
10. [DBG14060122] The session timeout problem.

# **Tracking Issues:**

Firmware Version	Tracking Issues (The potential fix has not been confirmed by customer or OBU)
4.4.0.3	1. [HQ20150318000028]WDS
	configuration[DEUR20150317000002-South Europe]
	2. [HQ20141110000017] Billing Profile Max Usage Traffic & Redirect
	Function Issues [DRU20141109000001-Middle East]

# **Known Issues:**

Firmware Version	Known Issues
	1. [39795] User not able to open and access the Wireless Deployment map
	page
4.4.0.3	2. [42610] Unable to push the SLA configuration from cluster controller to
	peer controller
	3. [42629] Billing profile when created for basic limit by usage/duration is





	getting expired by considering the expiration date & time set from Payment
	gateway window.
	4. [42961] Flow-based Control QOS is not working
	5. [43770] Intermittent clustering issue in DWC-2000.
	6. [45950] Select all + Delete is not working correctly for AP provisioning
	page (all items are not being deleted)
	7. [47750] Observed device country is setting to Andorra when applying
	the settings with country code as San Mario.
	8. [47751] Observed controller radio is setting to 802.11 a/n when
	changing the country code
	9. [47752] Controller is not showing connected ac clients information when
	ac clients are connected to AP.
	10. [49269] Radio details Inconsistency in VAP statistics page when a VAP
	is disabled for one of the radio.
	11. [49797] Observed operation failed message on performing the edit
	operation on the SSID entries in AP Profile SSID page
	12. [50026] Unable to see the preauth-history from GUI
	13. [51125] Observed temporary users are getting deleted after disabling
	the day light saving in the controller
	14. [51128] Error message in GUI and CLI are not the same while editing
	dhcp address pools with overlapping addresses
	15. [51133] DWC-2000 Device is vulnerable for CSRF attack
	16. [DEUR20150505000002] console error (ERROR
	L2C_INT_REG[BIGRD]: Read reference past L2C_BIG_CTL[MAXDRAM]
	occurred)
	17. [HQ20141110000017] Port Isolation Issue
	18. [DBG15050232] Cannot manage 8600AP properly
	1. [39795] User not able to open and access the Wireless Deployment map
	page
	2. [42610] Unable to push the SLA configuration from cluster controller to
	peer controller
	3. [42629] Billing profile when created for basic limit by usage/duration is
4.4.0.2_B201	getting expired by considering the expiration date & time set from Payment
	gateway window.
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	ac clients are connected to AP.
	10. [49269] Radio details Inconsistency in VAP statistics page when a VAP
	is disabled for one of the radio.
	11. DWC-2000 doesn't sync to the latest ACA from case
	[DEUR20140918000007][HQ20140919000018] DWS-4026_4.3.0.3_B016
	(diff_91)
	1. [39795] User not able to open and access the Wireless Deployment map
	page
	2. [42610] Unable to push the SLA configuration from cluster controller to
	peer controller
	3. [42629] Billing profile when created for basic limit by usage/duration is
4.3.0.3_B301	getting expired by considering the expiration date & time set from Payment
	gateway window.
	4. [42961] Flow-based Control QOS is not working
	5. [43770] Intermittent clustering issue in DWC-2000.
	6. [45950] Select all + Delete is not working correctly for AP provisioning
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	page (all items are not being deleted)
	1. [DBG14060159] The function of select-All is not work as expectation.
4.3.0.2_B003	2. [DBG14070078] The device shall refuse user to import over-spec
4.3.0.2_B003	number of license.
	3. [DBG14070085] With default built-in license, DUT cannot create over





## **DWC-2000 Firmware Release Notes**

64 APs entries in valid AP database

- 4. [DBG14070089] The DHCP server available lease time is different between LAN-settings and VLAN-settings
- 5. [DBG14070093] DNS host name mapping shall automatically transfer the uppercase character. (works as per RFC but we DSR behavior was requested ).
- 6. [DBG14070109] The RA feature shall not be able to disable while the DHCPv6 stateless mode is enabled.
- 7. [DBG14060167] The incorrect behavior as setup radio "Mode" ( use case woks only issue with the GUI low priority for now )
- [DBG14060160] Channel bandwidth selection, Basic rate, support rate, auto eligible channel not work (use case woks only issue with the GUI low priority for now)
- 9. [DBG14070166] NB can't get IP address after change VLAN interface

# **Related Documentation:**

- DWC-2000 User Manual ver.1.00
- DWC-2000 CLI Reference Guide ver. 1.00

