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Created: 7 September 2010
Last Modified: 6 March 2012
Document Revision 1.5

**Cherry Bomb:
Cherry Blossom
Internal
Validation and Verification (V&V) Report
For Cherry Blossom Version 5.0
(CDRL 15c)
(U)**

Prepared for US Govt. by:

XXXXX Y
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For contract:
2010*0529525*000

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| Version | Description of Version | Date Completed |
|----------------|---|-----------------------|
| 1.0 | Initial draft – derived from Cherry Blossom System FAT V&V Report (CDRL 15) | 7 September 2010 |
| 1.1 | Updated email/chat info | 21 October 2010 |
| 1.2 | Added section 4.2.x tests for CB v4 requirements. Removed redundant 5.7 test. | 3 November 2010 |
| 1.3 | Converted from excel to word doc | 19 November 2010 |
| 1.4 | Removed deprecated and redundant tests. | 15 December 2010 |
| 1.5 | Added CB v5.0 Tests | 6 March 2012 |

1 Introduction

This document records and reports the results of the test procedures of the “Cherry Blossom Internal Test Procedures (CDRL 14c)”. For full context, see “Cherry Blossom System Verification and Validation Report (CDRL 15)”.

2 Results

| | | | | | | |
|---|------------------|-------------|-------------|-------------|-------------|-------------|
| Test Name -> | CB v5.0 Internal | | | | | |
| Tester -> | Mike D., Jeff R. | | | | | |
| Date -> | | | | | | |
| Make -> | Linksys | | | | | |
| Model -> | WRT54GL | | | | | |
| HW Version -> | v1.1 | | | | | |
| FW Version -> | 4.30.11 ETSI | | | | | |
| Flytrap Version/SVN -> | | | | | | |
| CherryTree Version/SVN -> | | | | | | |
| Additional Notes -> | | | | | | |
| Test Name/Section in Cherry Blossom System Internal Test Procedures (CDRL 14c) | Pass | Fail | Pass | Fail | Pass | Fail |
| 2.1 CherryTree/Web Unit Tests | | | | | | |
| 2.2 Flytrap Unit Tests | | | | | | |
| 2.3 Flytrap Device Unit Test | | | | | | |
| 3.1 Generic Filter Test | | | | | | |
| 3.2 Memory and File Descriptor Leaks Test | | | | | | |
| 4.1.1 Initial Beacon (IB) Period Test | | | | | | |
| 4.1.2 IB Traffic Requirement Test | | | | | | |
| 4.1.3 IB Fast/Slow Retry Test | | | | | | |
| 4.1.4 IB Traffic Requirement Timeout Test | | | | | | |
| 4.1.5 IB Internet Connectivity Test | | | | | | |
| 4.1.6 IB Suicide Time Test | | | | | | |
| 4.1.7 Power-Cycle Beacon Test | | | | | | |
| 4.1.8 Periodic Beacon (PB) Interval Test | | | | | | |
| 4.1.9 PB Traffic Requirement Test | | | | | | |
| 4.1.10 PB Traffic Requirement Timeout Test | | | | | | |
| 4.1.11 PB Internet Connectivity Test | | | | | | |
| 4.1.12 PB Fast/Slow Retry Test | | | | | | |
| 4.1.13 Overnight PB Test | | | | | | |
| 4.1.14 PB Suicide Time Test | | | | | | |
| 4.1.15 Date Change Immunity Test | | | | | | |
| 4.1.16 Ontime Consistency Through Power-Cycles Test | | | | | | |
| 4.2.1 Email/Chat Target Detection/Alerting Test | | | | | | |
| 4.2.2 MAC Target Detection/Alerting Test | | | | | | |
| 4.2.3 Beacon Status and Security Settings Test | | | | | | |

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| 4.2.4 Alert Caching Test | | | | |
| 4.2.5 Target Monitoring Test | | | | |
| 4.2.6 Redirect Action Test | | | | |
| 4.2.7 Double Iframe Action Test | | | | |
| 4.2.8 Copy Action Test | | | | |
| 4.2.9 Derived MAC Detection/Alerting Test | | | | |
| 4.2.10 Email/Chat Target Action Inheritance Test | | | | |
| 4.2.11 MAC Target Actions Test | | | | |
| 4.2.12 MAC Target Action Inheritance (Lack Thereof) Test | | | | |
| 4.2.13 Copy All Test | | | | |
| 4.2.14 Harvest Test | | | | |
| 4.2.15 Flytrap Kill Test | | | | |
| 4.2.16 Minimal Device Resource Usage Test | | | | |
| 4.2.17 Minimal Interference with Normal Device Usage Test | | | | |
| 4.2.18 Max Targets & Max Actions Test | | | | |
| 4.2.19 Encrypted Comm Test | | | | |
| 4.2.20 Port/Protocol Scanning Tests | | | | |
| 4.2.21 Firmware Upgrade Inhibit Test | | | | |
| 4.2.22 Mission Manager Nvram Reset Test | | | | |
| 4.2.23 Throughput Degradation Test | | | | |
| 4.2.24 Erasure of Persistent Data After Flytrap Upgrade Test | | | | |
| 4.2.25 No Flytrap Persistent Data in Device Config File Test | | | | |
| 4.2.26 No Unintended Emissions Test | | | | |
| 4.2.27 Target Based VPN Link Action Test | | | | |
| 4.2.28 Target Based VPN Proxy Action Test | | | | |
| 4.2.29 VPN Link Global Action Test | | | | |
| 4.2.30 VPN Proxy All Global Action Test | | | | |
| 4.2.31 Squid Proxy Beacon Test | | | | |
| 4.2.32 Squid Proxy Alert Test | | | | |
| 4.2.33 Squid Proxy Copy Test | | | | |
| 4.2.34 Squid Proxy Copy Content-Length Filter Test | | | | |
| 4.2.35 Copy Content-Length Reset Test | | | | |
| 4.2.36 W Alert Test | | | | |
| 4.2.37 Application Execution Test | | | | |
| 4.2.38 Inhibit FW Version String Test | | | | |
| 4.2.39 Upgrade Alert Test | | | | |
| 4.3.1 S/E 3xxx Operational Modes Test | N/A | N/A | N/A | |
| 4.3.2 S/E 3xxx Wireless Settings Test | N/A | N/A | N/A | |
| 4.3.3 S/E 3xxx Default Gateway Discovery (DGD) Test | N/A | N/A | N/A | |
| 4.4.1 Exclude/Include Built-in Beacon Addresses | | | | |
| 4.4.2 No Windex Server Connection Links | | | | |

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|--|--|--|--|--|--|
| 4.4.3 Run OWT From Cherry Web | | | | | |
| 4.4.4 Sort Flytraps By Most Recent Beacon | | | | | |
| 4.4.5 Search Target Decks for Targets | | | | | |
| 5.1 CW Login Test | | | | | |
| 5.2 CW Ticker Test | | | | | |
| 5.3 CW Overview Test | | | | | |
| 5.4 CW View->Alerts Test | | | | | |
| 5.5 CW View->Target Activity/Target Details Test | | | | | |
| 5.6 CW View->Flytraps Test | | | | | |
| 5.7 CW View->Flytraps->Diagnostic Test | | | | | |
| 5.8 CW Flytrap Details Test | | | | | |
| 5.9 CW View->Flytraps->Deployments Test | | | | | |
| 5.10 CW View->Missions Test | | | | | |
| 5.11 CW Mission Details Test | | | | | |
| 5.12 CW View->Copy Data Test | | | | | |
| 5.13 CW View->VPN Data | | | | | |
| 5.14 CW View->Harvest Data Test | | | | | |
| 5.15 CW Plan->Targets Test | | | | | |
| 5.16 CW Plan->Exploits->Windex Test | | | | | |
| 5.17 CW Plan->Exploits->VPN/Proxies Test | | | | | |
| 5.18 CW Plan->Tumbleweeds Test | | | | | |
| 5.19 CW Plan->Missions -- Creation Test | | | | | |
| 5.20 CW Plan->Missions -- Edit Test | | | | | |
| 5.21 CW Plan->Missions -- Default Test | | | | | |
| 5.22 CW Plan->Missions -- Archive Test | | | | | |
| 5.23 CW Plan->Flytraps -- Create Test | | | | | |
| 5.24 CW Assign->Missions to Flytraps Test | | | | | |
| 5.25 CW Assign->Kill Test | | | | | |
| 5.26 CW Flytrap Details: Strict Buffer Fill Percent Test | | | | | |
| 5.27 CW Flytrap Details: RFC822 Buffer Fill Percent Test | | | | | |
| 5.28 CW Administer->Users -- Add Test | | | | | |
| 5.29 CW Administer->Users -- Edit Test | | | | | |
| 5.30 CW Administer->Users -- Delete Test | | | | | |
| 5.31 CW Administer->Customers -- Add Test | | | | | |
| 5.32 CW Administer->Permissions Test | | | | | |
| 5.33 CW Administer->>Password Test | | | | | |
| 5.34 CW Plan->Missions Permissions Test | | | | | |
| 5.35 CW Plan->Flytraps -- Edit Test | | | | | |
| 5.36 CW Plan->Target Decks -- Creation Test | | | | | |
| 5.37 CW Plan-> Target Decks -- Edit Test | | | | | |
| 5.38 CW Plan-> Target Decks -- Archive Test | | | | | |
| 5.39 CW Customer Display Filter Test | | | | | |
| 5.40 One Way Transfer (OWT) -- Directory Structure | | | | | |

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| Test | | | | | | |
| 5.41 One Way Transfer (OWT) – Invalid Customer Test | | | | | | |
| 5.42 One Way Transfer (OWT) General Test | | | | | | |
| 5.43 CW Random Link Walk Test | | | | | | |
| 5.44 CW Multiple Target Decks Exceeding 150 Targets in a Mission Test | | | | | | |
| 5.45 CW Catapult (Simulated) Test | | | | | | |
| 5.46 Delete Flytrap from CherryTree Database | | | | | | |
| 5.47 Prune Flytrap Security Information | | | | | | |
| 5.48 CherryTree Authentication Test | | | | | | |
| 5.49 Power Cycle Test | | | | | | |
| 5.50 Status Alert Pruning | | | | | | |
| 6.1 Quick Periodic Test | | | | | | |
| 6.2 System Logs Inspection | | | | | | |
| 7.1 LAN Upgrade Test | | | | | | |
| 7.2 WLAN (Wireless) Upgrade Test | | | | | | |
| 7.3 WAN Upgrade Test | | | | | | |