Australian Government
Department of Defence

Australasian Information Security Evaluation Program

Maintenance Report

Supplementing Certification Report 2006/38

18 May 2007

Version 1.0

Amendment Record

Version	Date	Description
1.0	18/05/2007	Public release.

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Chapter 1 - Introduction

1.1   Purpose

1   This document in an addendum to the Certification Report (Ref [1]) that describes the relevant baseline evaluation of IOS/IPSec.

2   The purpose of this Maintenance Report is to describe the status of the Assurance Continuity process for Cisco Systems Inc IOS/IPSec Version 12.3(6f), against the requirements contained in Assurance Continuity: CCRA Requirements (Ref [2]).

3   Cisco Systems Inc provided information about their assurance continuity activities in the form of an Impact Analysis Report (IAR). The IAR (Ref [3]) lists the changes made to the certified TOE, the evidence updated as a result of the changes, and the security impact of the changes.

4   This report should be read in conjunction with

   a)   The certified TOE's Certification Report (Ref [1]).

   b)   The certified TOE's Security Target (Ref [4]) which provides a full description of the security requirements and specifications that were used as the basis of the baseline evaluation.

1.2   Identification

5   Table 1 provides identification details for the maintained TOE and the certified TOE.

Table 1: Identification Information

Item	Identifier
Evaluation Scheme	Australasian Information Security Evaluation Program
Maintained TOE	IOS/IPSec Version 12.3(6f)
Developer	Cisco Systems Inc
Certified TOE	IOS/IPSec Version 12.3(6a)
Security Target	Security Target for Cisco IOS/IPSec, Version 4.8, May 2006
Evaluation Level	EAL 4
Certificate Number	2006/38

Chapter 2 - IAR Summary

2.1   Description of Changes

6   Cisco IOS/IPSec V12.3(6f) is a newer maintenance version than Cisco
           IOS/IPSec V12.3(6a). The Impact Analysis Report (IAR) indicated that
           IOS/IPSec V12.3(6f) contains a number of bug fixes that are not included
           in V12.3(6a). The vast majority of the bug fixes concerned general IOS
           issues and are not related to the Target of Evaluation (TOE) scope. The
           IAR noted that there were some bug fixes that intersected with TOE
           security functionality, however in each case the changes impacted generic
           operation of the IOS product without modification to the TOE security
           functionality.

2.2   Documentation Updated

7   The affected developer evidence was:

           • Source code files – a small number were modified.

           • Test results – new test results were generated.

           • User Guidance – new Message Digest #5 (MD5) hash values have
             been generated for the maintained TOE and included in the revised
             user guidance (Ref [5]).

Chapter 3 - Assurance Continuity

3.1   Assurance Continuity Result

8   After consideration of the Impact Analysis Report (IAR) provided by
         Cisco Systems Inc the Australasian Certification Authority (ACA) has
         determined that none of the changes are security relevant. All changes
         were made to address product issues outside the scope of the baseline
         evaluation. Some of the changes did affect source code files that also
         contained security relevant code, but no changes were made that affected
         the Target of Evaluation (TOE) security functions. Each change has been
         carefully managed by Cisco Systems Inc. All changes made have been
         regression tested or unit tested.

9   The ACA determined that the resultant change in the TOE is classified as
         minor and that certificate maintenance is the correct path to continuity of
         assurance. This report concludes that the original EAL4 assurance result is
         maintained for Cisco IOS/IPSec V12.3(6f).

References and Abbreviations

A.1 References

[1] Certification Report 2006/38, Australasian Certification Authority, Version 1.0, September 2006.

[2] Assurance Continuity: CCRA requirements, Common Criteria Interpretation Management Board, CCIMB-2004-02-009, Version 1.0, February 2004.

[3] Impact Analysis Report for Cisco IOS/IPSec, Version 1.1, November 2006.

[4] Security Target for Cisco IOS/IPSEC, V4.8, Cisco Systems Inc.

[5] Installation and Configuration for Common Criteria EAL4 Evaluated Cisco IOS IPSec, Version 2.6, November 2006, (at http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123sup/ ccipsec2.htm)

A.2 Abbreviations

ACA   Australasian Certification Authority

AISEP   Australasian Information Security Evaluation Program

CC   Common Criteria

CCRA   Common Criteria Recognition Arrangement

DSD   Defence Signals Directorate

EAL   Evaluation Assurance Level

IAR   Impact Analysis Report

IETF   Internet Engineering Task Force

IOS   Cisco's Internetworking Operating System

IPSec   IETF standards for Internet Protocol Security

MD5   Message Digest #5

TOE   Target of Evaluation