



# Netcrypt Bulk Encryptor Software Version 1.3.5 Release Note

## Overview

### Introduction

This release note contains the following information:

- Descriptions of the new features introduced with this software release
- Information you need to prepare for an upgrade to Netcrypt™ 1.3.5
- The list of software applications that make up Netcrypt 1.3.5
- Defects that were found in a previous release of Netcrypt software (Netcrypt 1.2.12) and corrected in Netcrypt 1.3.5
- A summary of open issues for Netcrypt 1.3.5 (if any)
- General information on contacting us for technical support

### Scope

This release note provides an executive overview of software release 1.3.5. If you have questions about this release or require more detailed information, call Cisco Services at 1 800 283-2636.

### Audience

This release note is written for system operators, sales and program managers, and field technicians.

### Document Version

This is the second formal release of this document. This version addresses compatibility with SR 4.3 and earlier releases.

## About This Software Version

Netcrypt 1.3.5 includes features and enhancements implemented at the request of our customers. Review this section to learn more about these changes.

**Note:** For more information about a Netcrypt, such as theory of operation, instructions for hardware installation, provisioning, or operation, refer to *Netcrypt Overlay Bulk Encryptor Installation and Operation Guide* (part number 4012215).

### What's New in this Release?

**Note:** The following features are supported in System Release 4.2 Service Pack 4 (SR 4.2 SP4) and in SR 5.0 and later system releases.

#### **Easier Provisioning and Session Management**

With Netcrypt 1.3.5, the DNCS can provision the Netcrypt and other Session Resource Managers (SRMS) can manage Netcrypt sessions.

#### **Return a Non-Primary Source to the Primary Source Easily, Automatically in Some Cases**

Netcrypt 1.3.5 provides a craft command that allows users to easily return the Netcrypt to a primary source. In addition, the Netcrypt can be configured to periodically return to a primary source.

#### **Alarm Notifies Operators When Non-Primary Server Is in Use**

An alarm notifies operators when the non-primary server is in use so they can return the Netcrypt to the local server and provide subscribers with locally targeted advertisements.

#### **Switch Input Source of Multicast IP Sessions Easily**

Netcrypt 1.3.5 provides a craft command that allows operators to switch the input source of multicast IP sessions.

#### **Provides a CBR Output Stream to Reduce Jitter, Improve Video Quality**

Netcrypt 1.3.5 now passes stuff packets to maintain the incoming continuous bit rate (CBR) rate and reduce jitter. Additional software enhancements also prevent table insertions from introducing program clock reference (PCR) jitter on the output stream.

### **Alarm Notifies Operators When CBR Output Is Not Possible**

An alarm notifies operators when, due to the lack of headroom in the input stream, the Netcrypt is unable to prevent inserts from affecting the PCR jitter of the output stream.

## **Applications Included in this Release**

Netcrypt software version 1.3.5 includes the following software applications:

- Netcrypt Host Application code 1.3.5
- Netcrypt Host Boot code 1.3.5
- Netcrypt Input Application code 1.3.5
- Netcrypt Input Boot code 1.3.5
- Netcrypt Output Application code 1.3.5
- Netcrypt Output Boot code 1.3.5
- Field Programmable Gate Array (FPGA) code 16.8

## **Compatible Tools**

To install and maintain Netcrypt 1.3.5, use the tools included in *DBDS Utilities Version 6.3 Installation Instructions and User Guide* (part number 4031374).

## **Software**

Netcrypt software version 1.3.5 can be obtained from Cisco.com.

For more information, refer to *Netcrypt Bulk Encryptor Software Installation Instructions* (part number 4021238).

## What Are the Site Requirements?

This section includes important information to help you ensure that your site is prepared to upgrade to this software version. Please read this entire section before you upgrade to Netcrypt software version 1.3.5.

### System Release Compatibility and Prerequisites

Netcrypt software version 1.3.5 has been tested with the following system releases:

- SR 4.2 SP4
- SR 5.0 and later releases

For a complete configuration listing, or to upgrade your system, contact Cisco Services at 1-800-283-2636.

### Software Requirements

To upgrade a Netcrypt Bulk Encryptor with this software version, Netcrypt software version 1.2.12 or greater must be installed on the Netcrypt Bulk Encryptor.

### Hardware Requirements

Install Netcrypt software version 1.3.5 on only a Netcrypt Bulk Encryptor chassis (part number 4007553).

## What's Fixed

### Introduction

This section provides a description of the defects found in Netcrypt 1.2.12 and corrected in Netcrypt 1.3.5.

**Note:** The following defects have been tested for compatibility with SR 4.2 SP4 and with SR 5.0 and later releases.

### **ID CSCzk37970: Video No Longer Interrupted Due to Non-Response to IGMP V3 Query**

Netcrypt software allowed the Netcrypt to fail to respond to Internet Group Management Protocol Version 3 (IGMP V3) queries. When this occurred twice in a row, video stopped and restarted when a source switch was completed. This caused macroblocking or a short black screen to appear on subscriber screens. **ID CSCzk37970** corrects this issue.

### **ID CSCzk48324: Netcrypt Does Not Reboot when Input Streams Are Misconfigured**

A misconfigured input stream could cause the Netcrypt to reboot. Examples of configuration issues that caused this issue are input streams with multiple program allocation tables (PATs) of different versions on the same transport, or multicast streams from multiple sources with no source-specific multicast (SSM) configured on the switch. **ID CSCzk48324** corrects this issue.

### **ID CSCzp36991: Netcrypt Now Recovers from Software Reboot**

Occasionally, the Netcrypt did not recover from a software reboot. To recover, operators were required to power cycle the Netcrypt. **ID CSCzp36991** corrects this issue.

### **ID CSCzp34580: Aborted Telnet Sessions Do Not Cause Reboot with Video Outage**

When a user started a telnet session but failed to respond to the prompts for User and Password, the login process could lock up and cause the Netcrypt to reboot with a watchdog failure. When this occurred, it triggered a temporary video outage. **ID CSCzp34580** corrects this issue.

### **ID CSCtt08579: Netcrypt encryption driver fails to return the file handle on error**

When the SEC2 encryption module returned an error, the file descriptor for the encryption operation was not returned and Netcrypt software ran out of file handles after a few errors. With no free file handles, new IP services, such as telnet, rpc\_info, or encryption processing could not be started. Recovering from this error required that operators reboot the Netcrypt. **CSCtt08579** corrects this issue.

## Known Issues

This software product currently has no known issues.



Cisco Systems, Inc.  
5030 Sugarloaf Parkway, Box 465447  
Lawrenceville, GA 30042

678 277-1120  
800 722-2009  
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