



Communications  
Security Establishment

Centre de la sécurité  
des télécommunications

# CANADIAN CENTRE<sup>FOR</sup> **CYBER SECURITY**

## COMMON CRITERIA MAINTENANCE REPORT

### Sphyrna Security Unidirectional Gateway - Data Diode Identifier: NGX5 UGW-200

7 November 2024

536-LSS

v1.0

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# FOREWORD

This Maintenance Report is an UNCLASSIFIED publication, issued under the authority of the Chief, Communications Security Establishment (CSE).

The IT product identified in this report has been previously evaluated at an approved Common Criteria testing lab established under the Canadian Common Criteria program using the Common Methodology for IT Security Evaluation, Version 3.1 Revision 5, for conformance to the Common Criteria for IT Security Evaluation, Version 3.1 Revision 5.

This report is not an endorsement of the IT product by the Canadian Centre for Cyber Security, and no warranty of the IT product by the Canadian Centre for Cyber Security is expressed or implied.

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Contact Centre and Information Services

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# 1 INTRODUCTION

An Impact Analysis Report was submitted to the Canadian Common Criteria program to extend the validity of the Common Criteria certificate previously awarded to **Sphyrna Security Unidirectional Gateway - Data Diode Identifier: 2010-UG100-SSI** from **Sphyrna Security Incorporated**.

The process to achieve this under mutual recognition is described in Assurance Continuity: CCRA Requirements, version 3.1, February 2024. In accordance with the requirements of this process, the Impact Analysis Report describes all changes made to the product and/or its IT environment, all resulting changes made to the evaluation evidence, and the security impact of the changes.

The purpose of this document is to summarize and present the Canadian Common Criteria program's findings regarding the assurance maintenance of **Sphyrna Security Unidirectional Gateway - Data Diode Identifier: NGXS UGW-200**, hereafter referred to as the maintained Target of Evaluation, or maintained TOE.

## 2 DESCRIPTION OF CHANGES

The following characterizes the changes implemented in the maintained TOE and/or the environment. For each change, it was verified that there were no required changes to the security functional requirements in the Security Target.

**Table 1: TOE Identification**

<b>Original TOE</b>	<b>Sphyrna Security Unidirectional Gateway - Data Diode Identifier: 2010-UG100-SSI</b>
<b>Maintained TOE</b>	<b>Sphyrna Security Unidirectional Gateway - Data Diode Identifier: NGX5 UGW-200</b>
<b>Developer</b>	<b>Sphyrna Security Incorporated.</b>

### 2.1 DESCRIPTION OF CHANGES IN THE MAINTAINED TARGET OF EVALUATION

The changes in the maintained TOE comprise the following:

- The cage assembly has been replaced with a 25Gbps dual zSFP+ (SFP28) cage , allowing the data interfaces to operate at up to 25Gbps data rates. All other aspects of the diode's functionality remain unchanged.

### 2.2 AFFECTED DEVELOPER EVIDENCE

Modifications to the product necessitated changes to the following developer evidence that was previously submitted in support of the original evaluation:

- Security Target updated with new ST/TOE reference and cage details.
- TOE Schematic diagram updated.
- TOE printed circuit board diagram updated.

### 3 CONCLUSIONS

Through functional and regression testing of the maintained TOE, assurance gained in the original TOE certification was maintained. As all the changes to the maintained TOE have been classified as minor, it is the conclusion of the CB that the maintained TOE is appropriate for assurance maintenance and re-evaluation is not required.

The assurance maintenance of the TOE has been conducted in accordance with the provisions of the Canadian Common Criteria Scheme and the conclusions are consistent with the evidence adduced. This is not an endorsement of the IT product by the Cyber Centre or by any other organization that recognizes or gives effect to this certificate, and no warranty of the IT product by the Cyber Centre or by any other organization that recognizes or gives effect to this certificate, is expressed or implied.

## 4 REFERENCES

Reference
Assurance Continuity: CCRA Requirements, February 2024, v3.1
Certification Report Sphyrna Security Unidirectional Gateway - Data Diode Identifier: NGXS UGW-200, 2021-09-07
Security Target Sphyrna Security Unidirectional Gateway - Data Diode Identifier: NGXS UGW-200, 2024-10-15, v2.1
Impact Analysis Report Sphyrna Security Unidirectional Gateway - Data Diode Identifier: NGXS UGW-200, 2024-11-07, v1.0.0

