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Certification Report

Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers

Versions: FIS-SKVM-11HDDP Rev-C, FIS-SKVM-21HDDP Rev-C, FIS-SKVM-22HDDP Rev-C, FIS-SKVM-22HDDPD Rev-C, FIS-SKVM-41HDDP Rev-C, FIS-SKVM-42HDDP Rev-C, FIS-SKVM-42HDDPD Rev-C, FIS-SKVM-82HDDP Rev-C, FIS-SVID-11HD-4K/FHD Rev-B, FIS-SVID-11DP-4K/FHD Rev-B

Sponsor and developer:	**Fibernet Ltd.** **Hakidma str. 9** **2069206 Yokneam Illit** **Israel**
Evaluation facility:	**SGS Brightsight B.V.** **Brassersplein 2** **2612 CT Delft** **The Netherlands**
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Foreword

The Netherlands Scheme for Certification in the Area of IT Security (NSCIB) provides a third-party evaluation and certification service for determining the trustworthiness of Information Technology (IT) security products. Under this NSCIB, TrustCB B.V. has the task of issuing certificates for IT security products, as well as for protection profiles and sites.

Part of the procedure is the technical examination (evaluation) of the product, protection profile or site according to the Common Criteria assessment guidelines published by the NSCIB. Evaluations are performed by an IT Security Evaluation Facility (ITSEF) under the oversight of the NSCIB Certification Body, which is operated by TrustCB B.V. in cooperation with the Ministry of the Interior and Kingdom Relations.

An ITSEF in the Netherlands is a commercial facility that has been licensed by TrustCB B.V. to perform Common Criteria evaluations; a significant requirement for such a licence is accreditation to the requirements of ISO Standard 17025 "General requirements for the accreditation of calibration and testing laboratories".

By awarding a Common Criteria certificate, TrustCB B.V. asserts that the product or site complies with the security requirements specified in the associated (site) security target, or that the protection profile (PP) complies with the requirements for PP evaluation specified in the Common Criteria for Information Security Evaluation. A (site) security target is a requirements specification document that defines the scope of the evaluation activities.

The consumer should review the (site) security target or protection profile, in addition to this certification report, to gain an understanding of any assumptions made during the evaluation, the IT product's intended environment, its security requirements, and the level of confidence (i.e., the evaluation assurance level) that the product or site satisfies the security requirements stated in the (site) security target.

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Recognition of the Certificate

Presence of the Common Criteria Recognition Arrangement (CCRA) and the SOG-IS logos on the certificate indicates that this certificate is issued in accordance with the provisions of the CCRA and the SOG-IS Mutual Recognition Agreement (SOG-IS MRA) and will be recognised by the participating nations.

International recognition

The CCRA was signed by the Netherlands in May 2000 and provides mutual recognition of certificates based on the Common Criteria (CC). Since September 2014 the CCRA has been updated to provide mutual recognition of certificates based on cPPs (exact use) or STs with evaluation assurance components up to and including EAL2+ALC_FLR.

For details of the current list of signatory nations and approved certification schemes, see http://www.commoncriteriaportal.org.

European recognition

The SOG-IS MRA Version 3, effective since April 2010, provides mutual recognition in Europe of Common Criteria and ITSEC certificates at a basic evaluation level for all products. A higher recognition level for evaluation levels beyond EAL4 (respectively E3-basic) is provided for products related to specific technical domains. This agreement was signed initially by Finland, France, Germany, The Netherlands, Norway, Spain, Sweden and the United Kingdom. Italy joined the SOG-IS MRA in December 2010.

For details of the current list of signatory nations, approved certification schemes and the list of technical domains for which the higher recognition applies, see https://www.sogis.eu.

1 Executive Summary

This Certification Report states the outcome of the Common Criteria security evaluation of the Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers. The developer of the Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers is Fibernet Ltd. located in Yokneam Illit, Israel and they also act as the sponsor of the evaluation and certification. A Certification Report is intended to assist prospective consumers when judging the suitability of the IT security properties of the product for their particular requirements.

The TOE, Fibernet BLOCKER Secure KVM switch family (hereafter called BLOCKER) and myBLOCKER unidirectional Audio/Video Data Blockers (hereafter called myBLOCKER), includes two possible types of devices:

- A peripheral switching device (PSD) (BLOCKER) which provides secure connection of a set of peripherals to one or more attached computers.

- A unidirectional Audio/Video blocker (myBLOCKER) which ensures one-way communication from the source computer to the display device.

The TOE has been evaluated by SGS Brightsight B.V. located in Delft, The Netherlands. The evaluation was completed on 11 January 2026 with the approval of the ETR. The certification procedure has been conducted in accordance with the provisions of the Netherlands Scheme for Certification in the Area of IT Security [NSCIB].

The scope of the evaluation is defined by the security target [ST], which identifies assumptions made during the evaluation, the intended environment for the Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers, the security requirements, and the level of confidence (evaluation assurance level) at which the product is intended to satisfy the security requirements. Consumers of the Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers are advised to verify that their own environment is consistent with the security target, and to give due consideration to the comments, observations and recommendations in this certification report.

The results documented in the evaluation technical report [ETR] [1] for this product provide sufficient evidence that the TOE meets the EAL4 augmented (EAL4+) assurance requirements for the evaluated security functionality. This assurance level is augmented with ALC_FLR.2 (Flaw reporting procedures). The evaluation was conducted using the Common Methodology for Information Technology Security Evaluation, Version 3.1 Revision 5 [CEM] for conformance to the Common Criteria for Information Technology Security Evaluation, Version 3.1 Revision 5 [CC] (Parts I, II and III).

TrustCB B.V., as the NSCIB Certification Body, declares that the evaluation meets all the conditions for international recognition of Common Criteria Certificates and that the product will be listed on the NSCIB Certified Products list. Note that the certification results apply only to the specific version of the product as evaluated.

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[1] The Evaluation Technical Report contains information proprietary to the developer and/or the evaluator, and is not available for public review.

2   Certification Results

2.1   Identification of Target of Evaluation

The Target of Evaluation (TOE) for this evaluation is the Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers from Fibernet Ltd. located in Yokneam Illit, Israel.

The TOE is comprised of the following main components:

Delivery item type	Identifier	Version
Hardware & firmware	FIS-SKVM-11HDDP Rev-C	Hardware: Rev-C Firmware: SNK: SFW0195 v1.4.9; SRC: SOW0195 v1.3.10
	FIS-SKVM-21HDDP Rev-C	Hardware: Rev-C Firmware: SNK: SFW0195 v1.4.9; SRC: SOW0195 v1.3.10
	FIS-SKVM-22HDDP Rev-C	Hardware: Rev-C Firmware: SNK: SFW0195 v1.4.9; SRC: SOW0195 v1.3.10
	FIS-SKVM-22HDDPD Rev-C	Hardware: Rev-C Firmware: SNK: SFW0195 v1.4.9; SRC: SOW0195 v1.3.10
	FIS-SKVM-41HDDP Rev-C	Hardware: Rev-C Firmware: SNK: SFW0187 v1.4.9; SRC: SOW0187 v1.3.10
	FIS-SKVM-42HDDP Rev-C	Hardware: Rev-C Firmware: SNK: SFW0187 v1.4.9; SRC: SOW0187 v1.3.10
	FIS-SKVM-42HDDPD Rev-C	Hardware: Rev-C Firmware: SNK: SFW0187 v1.4.9; SRC: SOW0187 v1.3.10
	FIS-SKVM-82HDDP Rev-C	Hardware: Rev-C Firmware: SNK: SFW0187 v1.4.9; SRC: SOW0187 v1.3.10
	FIS-SVID-11HD-4K/FHD Rev-B	Hardware: Rev-B Firmware: Not applicable
	FIS-SVID-11DP-4K/FHD Rev-B	Hardware: Rev-B Firmware: Not applicable

To ensure secure usage a set of guidance documents is provided, together with the Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers. For details, see section 2.5 "Documentation" of this report.

2.2   Security Policy

The TOE provides user data protection security functionality. The TOE controls the information flow between the peripheral device interfaces and a computer interface. The peripheral devices supported (depending on the TOE type) include USB mouse, USB Keyboard, audio output, and DisplayPort or HDMI video. The security functions provided by the TOE are:

- The TOE ensures a one-way information flow from the computer interface to the display interface only (for both BLOCKER and myBLOCKER)

- The TOE ensures the isolation between the computers connected to the source ports (BLOCKER only).

2.3   Assumptions and Clarification of Scope

2.3.1   Assumptions

The assumptions defined in the Security Target are not covered by the TOE itself. These aspects lead to specific Security Objectives to be fulfilled by the TOE-Environment. For detailed information on the security objectives that must be fulfilled by the TOE environment, see section 4.2 of the *[ST]*.

2.3.2 Clarification of scope

The evaluation did not reveal any threats to the TOE that are not countered by the evaluated security functions of the product.

2.4 Architectural Information

The TOE architecture can be depicted as follows:
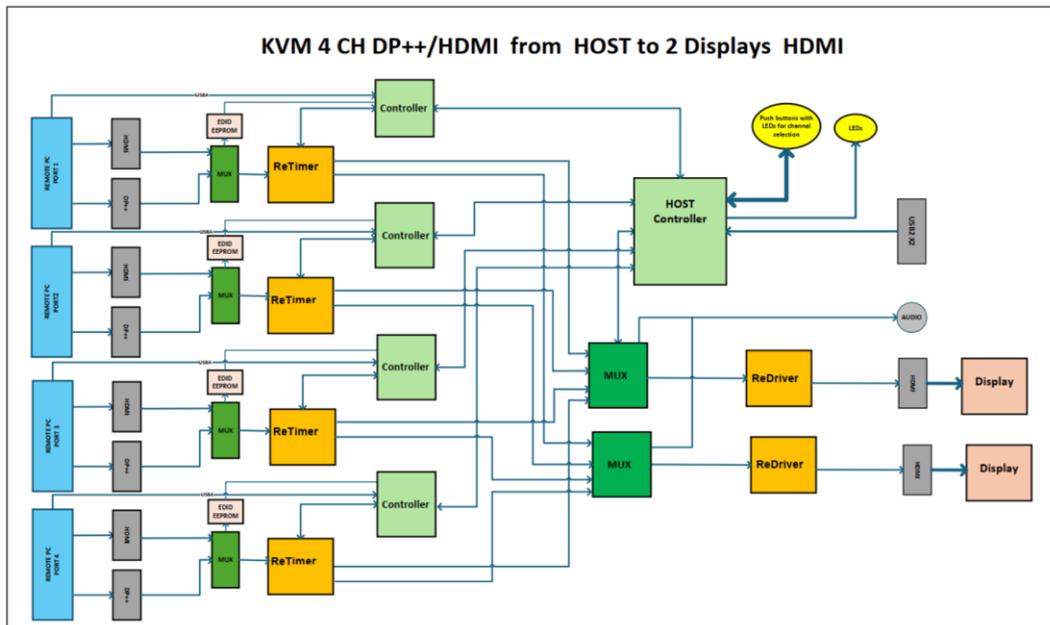
2.5 Documentation

The following documentation is provided with the product by the developer to the customer:

Identifier	Version
Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers CC guidance, dated 15 December 2025	V0.7
MyBlocker Datasheet, Secure Video Blocker, dated 20 August 2024	Rev A

2.6 IT Product Testing

Testing (depth, coverage, functional tests, independent testing): The evaluators examined the developer's testing activities documentation and verified that the developer has met their testing responsibilities.

2.6.1 Testing approach and depth

The developer performed extensive testing on functional specification, subsystem module level. All parameter choices were addressed at least once. All boundary cases identified were tested explicitly, and additionally the near-boundary conditions were covered probabilistically. The testing was largely automated using industry standard and proprietary test suites. Test scripts were used extensively to verify that the functions return the expected values.

For the testing performed by the evaluators, the developer provided samples and a test environment. The evaluators reproduced a selection of the developer tests, as well as a small number of test cases designed by the evaluator.

The evaluator created additional test cases test to confirm verification of the version of the TOE to further exercise the behaviour of critical functionality.

2.6.2 Independent penetration testing

The vulnerability analysis was conducted in the following steps:

- The evaluator analysed how each SFR was implemented and whether the implementation may lead to possible vulnerabilities.

- The evaluator analyses how the security mechanisms are implemented and whether the implementation may lead to possible vulnerabilities.

- Public vulnerability search: The evaluator performed public domain vulnerability search based on the TOE name, TOE type, and identified 3rd party security relevant libraries and/or services. Several additional potential vulnerabilities were identified during a search in the public domain.

- The potential vulnerabilities identified were analysed, and some of the potential vulnerabilities were concluded not exploitable within in the Enhanced-Basic attack potential, or covered by protected environment. For remaining potential vulnerabilities, penetration tests were devised.

The total test effort expended by the evaluators was 100 man-hours. During that test campaign, 100% of the total time was spent on logical tests.

2.6.3 Test configuration

The figure below indicates the test setup for lab on premises testing:
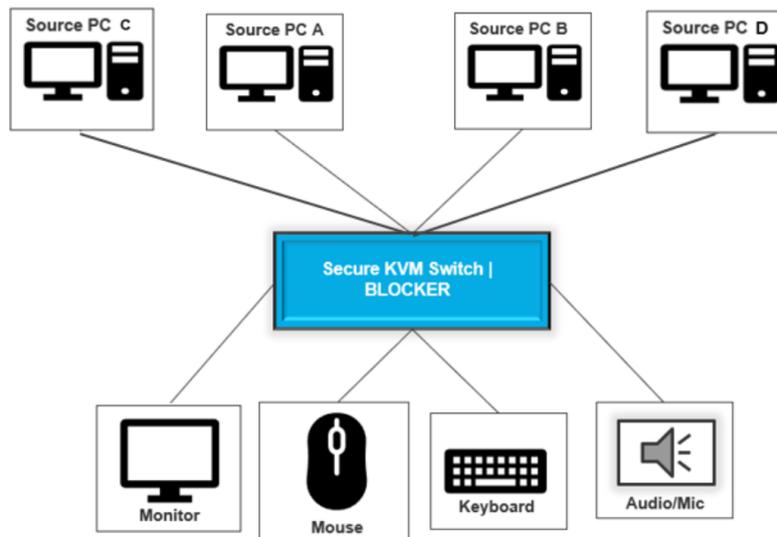
2.6.4 Test results

The testing activities, including configurations, procedures, test cases, expected results and observed results are summarised in the [ETR], with references to the documents containing the full details.

The developer's tests and the independent functional tests produced the expected results, giving assurance that the TOE behaves as specified in its [ST] and functional specification.

No exploitable vulnerabilities were found with the independent penetration tests.

2.7 Reused Evaluation Results

There is no reuse of evaluation results in this certification.

2.8   Evaluated Configuration

The TOE is defined uniquely by its name and version number Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers.

2.9   Evaluation Results

The evaluation lab documented their evaluation results in the *[ETR]*, which references an ASE Intermediate Report and other evaluator documents, and Site Technical Audit Report(s) for the site(s) *[STAR]* [2].

The verdict of each claimed assurance requirement is "**Pass**".

Based on the above evaluation results the evaluation lab concluded the Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers, to be **CC Part 2 conformant, CC Part 3 conformant**, and to meet the requirements of **EAL 4 augmented with ALC_FLR.2**. This implies that the product satisfies the security requirements specified in Security Target *[ST]*.

2.10   Comments/Recommendations

The user guidance as outlined in section 2.5 "Documentation" contains necessary information about the usage of the TOE. Certain aspects of the TOE's security functionality, in particular the countermeasures against attacks, depend on accurate conformance to the user guidance of both the software and the hardware part of the TOE. There are no particular obligations or recommendations for the user apart from following the user guidance. Please note that the documents contain relevant details concerning the resistance against certain attacks.

In addition, all aspects of assumptions, threats and policies as outlined in the Security Target not covered by the TOE itself must be fulfilled by the operational environment of the TOE.

The customer or user of the product shall consider the results of the certification within his system risk management process. For the evolution of attack methods and techniques to be covered, the customer should define the period of time until a re-assessment for the TOE is required and thus requested from the sponsor of the certificate.

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[2]   The Site Technical Audit Report contains information necessary to an evaluation lab and certification body for the reuse of the site audit report in a TOE evaluation.

3   Security Target

The Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers Security Target v0.17, 19 December 2025 *[ST]* is included here by reference.

4   Definitions

This list of acronyms and definitions contains elements that are not already defined by the CC or CEM:

IT	Information Technology
ITSEF	IT Security Evaluation Facility
JIL	Joint Interpretation Library
NSCIB	Netherlands Scheme for Certification in the area of IT Security
PP	Protection Profile
TOE	Target of Evaluation

5 Bibliography

This section lists all referenced documentation used as source material in the compilation of this report.

[CC]   Common Criteria for Information Technology Security Evaluation, Parts I, II and III, Version 3.1 Revision 5, April 2017

[CEM]   Common Methodology for Information Technology Security Evaluation, Version 3.1 Revision 5, April 2017

[ETR]   Evaluation Technical Report "Fibernet Secure KVM Switches Family and unidirectional HDMI Data blockers Rev. B, C" – EAL4+, 24-RPT-1183, Version 4.0, Dated 19 December 2025

[NSCIB]   Netherlands Scheme for Certification in the Area of IT Security, Version 2.6, 02 August 2022

[ST]   Fibernet Secure KVM Switches Family and Unidirectional HDMI Data Blockers Security Target v0.17, 19 December 2025

[STAR]   Site Technical Audit Report - Fibernet Secure KVM Switches and Unidirectional HDMI Data Blockers, 25-RPT-1543, Version 2.0, 19 December 2025

(This is the end of this report.)