

## Short Public Report

### Recertification No. DE-090017

**1. Name and version of the IT product or IT-based service:**

KiwiVision Privacy Protector, Version 3.0.0

**2. Manufacturer or vendor of the IT product / Provider of the IT-based service:**

Company Name: KiwiSecurity Software GmbH

Address: Lemböckgasse 49, 1230 Vienna, Austria

Contact Person: DI Florian Matusek

**3. Time frame of evaluation:**

14.03.2015 – 28.09.2015

**4. EuroPriSe Experts who evaluated the IT product or IT-based service:**

**Name of the Legal Expert:** Dr. Thomas Strohmaier

Address of the Legal Expert: Boschstraße 55/21, 1190 Vienna, Austria

**Name of the Technical Expert:** Mag. Andreas Krisch - mksult GmbH

Address of the Technical Expert: Kirchberggasse 7/5, 1070 Vienna, Austria

**5. Certification Authority:**

Name: EuroPriSe Certification Authority

Address: Joseph-Schumpeter-Allee 25

53227 Bonn

Germany

E-Mail: [contact@european-privacy-seal.eu](mailto:contact@european-privacy-seal.eu)

## 6. Specification of Target of Evaluation (ToE):

KiwiSecurity's Privacy Protector is a software module for integration in a video management system.

The Privacy Protector can be called and configured by a video-framework (delivered by KiwiSecurity or third parties). The framework receives video data from surveillance cameras and hands these data over to the Privacy Protector module for obfuscation. The module analyses the incoming video data, recognises persons standing or moving within the scene and obfuscates them. The obfuscated video data is then passed to third party software systems for display and / or storage via the video framework. Different obfuscation mechanisms are available. These can be selected and configured via the video framework, which also continuously takes back log data from the Privacy Protector and stores them into log files or a database. These log data do not contain any personally identifiable data.

Configuration of KiwiSecurity's Privacy Protector is carried out by KiwiSecurity or personnel specially trained and certified by KiwiSecurity. Obfuscation of video data is applied to all foreground areas (moving objects or persons). Additionally fixed regions can be defined that will always or never be obfuscated, regardless of the actual foreground. It is possible to configure multiple background models to accommodate quickly changing lighting conditions. A dedicated outdoor mode has been added to accommodate the special needs of outdoor lighting conditions.

In practice, the Privacy Protector will operate between the video signal of surveillance cameras and the picture displayed on the monitor or the storage device. Furthermore it can be used to obfuscate video data retrieved from a storage device. This results in displaying just obfuscated video data, with the monitored persons not identifiable.

### **The ToE includes:**

- software to obfuscate video data;
- interfaces to video frameworks (input: configuration and video data, output: obfuscated video data and log data);
- a set of configuration options and mechanisms

### **The ToE does not include:**

- hardware (cameras, servers, monitors, ...);

- video management software (display, storage, deletion, administration, access control, ... of (obfuscated) video data);
- video framework (interfaces to cameras, video management systems, configuration management and -storage, writing of log files);
- encryption of (obfuscated) video data. Encryption is optional outside the module.

Compared to the re-evaluation in 2013, the ToE is unchanged. While Kiwi Security also offers a video-management system and other modules for video analysis, the Target of Evaluation only covers the module Privacy Protector.

#### **7. General description of the IT product or IT-based service:**

The purpose of the Privacy Protector is to anonymise video data (by obfuscating persons or objects in the video) from surveillance cameras and storage devices in real-time. It also provides the possibility to define fixed obfuscated or non-obfuscated regions. To ensure a smooth functioning of the Privacy Protector, the surveillance system needs to use static surveillance cameras without automatic zoom. In case of moving cameras it is to be noted, that the Privacy Protector will obfuscate the entire scene until the new background has been learned by the software. Potential areas of operation are from highly frequented public spaces (airports, railway stations, etc.) to even working places.

Depending on the area of operation and technical settings chosen for the surveillance system, access for monitoring personnel can be restricted to obfuscated video data. Access to the non-obfuscated video data can be reserved to specially authorised users (supervisors, etc.).

#### **8. Transnational issues:**

Currently, the product is marketed especially in Austria, Belgium, Germany, Luxembourg Netherlands and Switzerland. Further countries within the European Union will follow.

#### **9. Tools used by the manufacturer of the IT product / provider of the IT-based service:**

The KiwiSecurity Privacy Protector is a software module that can be used by a video framework. Additional tools are not being used.

#### **10. Edition of EuroPriSe Criteria used for the evaluation:**

EuroPriSe Criteria Catalogue 2011/11

## **11. Modifications / Amendments of the IT product or IT-based service since the last (re)certification**

Since the last recertification there is a new option to enable an outdoor mode and an option to enable a perspective grid to better accommodate outdoor lighting conditions and small and large objects respectively. Additionally three new obfuscation methods (Icon, Image, Blur) were added.

## **12. Changes in the legal and/or technical situation**

The Privacy Protector now has a new feature to compensate the light changes in an outdoor surveillance area by using a gradient model for background analysis. Another new feature is a perspective grid that ensures that small and large objects are both obfuscated properly. These changes enable users to ensure correct obfuscation in the video feed and preserving the privacy enhancing features of the Privacy Protector in visually difficult settings.

Three new alternative obfuscation methods (Icon, Image, Blur) were also added to the software for users to choose from.

Apart from this there have been no legal or technical changes that would impact the evaluation results of the Privacy Protector compared to the re-evaluation in 2013.

## **13. Evaluation results:**

The usage of the Privacy Protector in connection with video surveillance systems permits the processing of video data while avoiding the identification of persons or objects in the surveilled area to a large extent. This is achieved by anonymisation through automatic obfuscation of video data (foreground regions) in real time.

### **Anonymisation:**

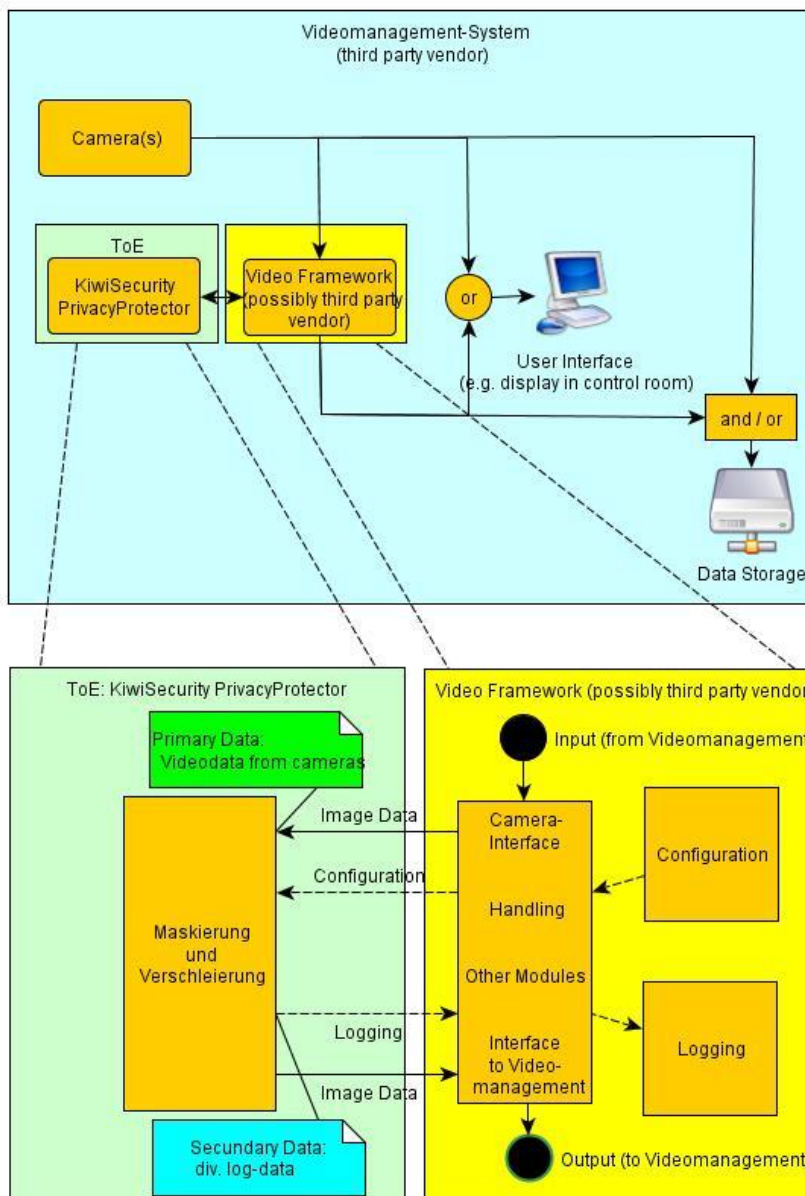
As long as non-obfuscated video data are not stored, it is possible to integrate the software into video surveillance systems, so that a re-identification of persons / objects is technically not possible. The algorithms used for obfuscating the video data all have in common that their calculations cannot be reverted.

The possibility to define fixed obfuscated or non-obfuscated regions allows a constant protection of areas that should be excluded from video surveillance (e.g. public places, working areas, sanitary areas, ...). In contrast to other video surveillance systems this allows to constantly protect privacy sensitive areas, while surveilling neighbouring areas that need special attention.

**Dataminimisation / proportionality:**

An immanent requirement in data protection is the usage of the least invasive technology available for achieving the purpose of the data processing. Here, KiwiSecurity's Privacy Protector significantly contributes to the protection of personal data by removing identifiable data from video sequences. Since the Privacy Protector can easily be integrated in (existing) video management systems the protection of privacy in video surveillance can be drastically enhanced with appropriate efforts.

**14. Data flow:**



## 15. Privacy-enhancing functionalities:

The Privacy Protector provides very effective algorithms for anonymisation of video data. Based on an analysis of the background present in the video data the software detects foreground objects and obfuscates (anonymises) them.

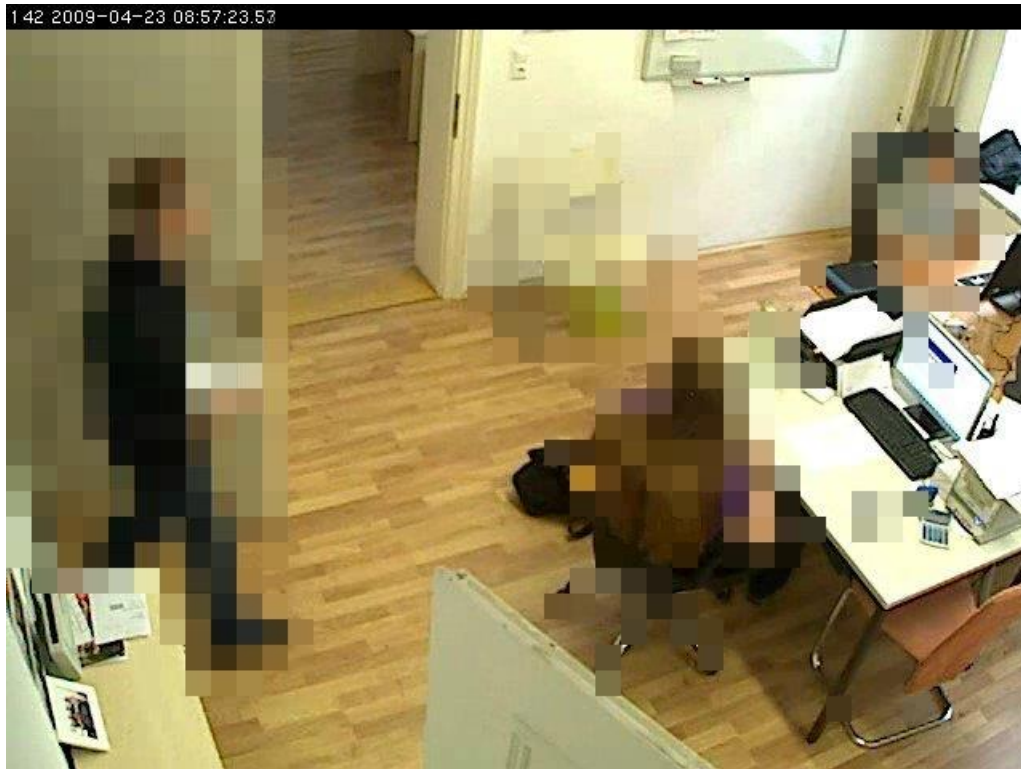


Illustration 1: Persons in a scene, obfuscated by Privacy Protector

By defining regions of the scene that should constantly be treated as foreground (these will be obfuscated), private areas can be excluded from video surveillance permanently.

Depending on the obfuscation algorithms only vague or no movements will be visible. The different available obfuscation mechanisms have in common that their calculations cannot be reverted.

As a result the usage of the Privacy Protector supports the principle of proportionality and of the usage of the least invasive technology with regard to video surveillance in an effective way by anonymization of video data and data minimisation.

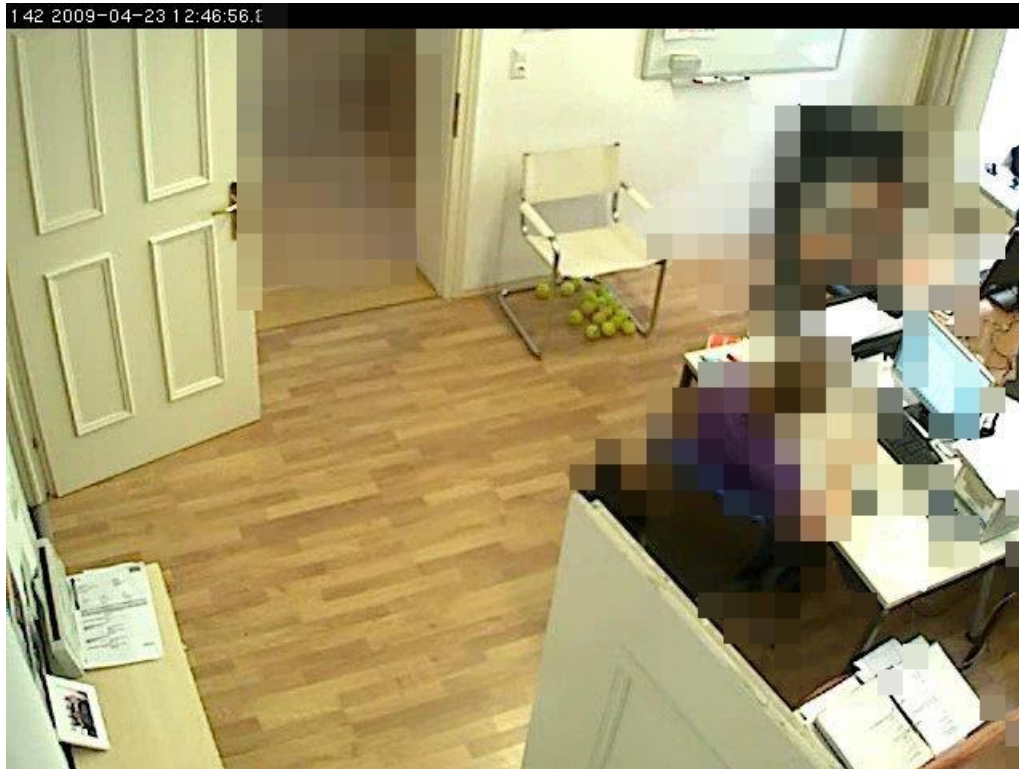


Illustration 2: Doorway on the top of the scene, permanently obfuscated by Privacy Protector

**16. Issues demanding special user attention:**

None of the EuroPriSe Criteria was rated “additional safeguard needed”; still the legitimacy of the video surveillance system needs to be evaluated separately on a case by case basis by the operator of the video surveillance system. Customers are informed about this issue in the KiwiVision Privacy Protector user manual.

The circumstances of a certain video surveillance system (camera location, recording of specific areas and events, activation of the outdoor mode in combination with dark clothing, etc.) need to be taken into account to ensure the success of the application. Therefore installation and configuration have to be carried out by especially trained personnel. The KiwiVision Privacy Protector user manual informs about this issue.

**17. Compensation of weaknesses:**

Not applicable.

**18. Decision table on relevant requirements:**

<i><b>EuroPriSe Requirement</b></i>	<i><b>Decision</b></i>	<i><b>Remarks</b></i>
Data Avoidance and Minimisation	excellent	The product anonymises video data by automatic obfuscation of persons / objects in real-time.
Transparency	excellent	The documentation is informative, up to date and understandable. It provides information for risk assessment and security policies.
Technical-Organisational Measures	adequate	All technical-organisational criteria are at least fulfilled adequately. The product provides excellent anonymisation functionalities.  KiwiSecurity's software release procedures provide excellent quality assurance mechanisms.
Data Subjects' Rights	adequate	According to the applicable EuroPriSe-Criteria Catalogue 2011/11 both KiwiSecurity's website and usage of IP-adressess and cookies had to be evaluated. In result the processing is fully permitted.



### Experts' Statement

We affirm that the above-named IT product / IT-based service has been evaluated according to the EuroPriSe Criteria, Rules and Principles and that the findings as described above are the result of this evaluation.

Vienna, 28.09.2015

Dr. Thomas Strohmaier

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Place, Date

Name of Legal Expert

Signature of Legal Expert

Vienna, 28.09.2015

Mag. Andreas Krisch

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Place, Date

Name of Technical Expert

Signature of Technical Expert

### Recertification Result

The above-named IT product / IT-based service passed the EuroPriSe evaluation.

It is certified that the above-named IT product / IT-based service facilitates the use of that product or service in a way compliant with European regulations on privacy and data protection.

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Place, Date

Name of Certification Authority

Signature