



**BSI-PP-0015-2005**

**Low Assurance Protection Profile**

for an

**Office based Photocopier Device  
Version 1.3**

developed by

**TNO ITSEF BV**





**Certificate BSI-PP-0015-2005**  
**Low Assurance Protection Profile**  
for an  
**Office based Photocopier Device**  
**Version 1.3**



Common Criteria Arrangement

developed by

**TNO ITSEF BV**

Assurance Package : EAL1

Bonn, July 08<sup>th</sup>, 2005

The President of the Federal Office  
for Information Security

Dr. Helmbrecht

L.S.

The Protection Profile mentioned above was evaluated at an accredited and licenced/approved evaluation facility using the Common Methodology for IT Security Evaluation, Version 2.4 Revision 256 including Draft Interpretations #1 - #17 for conformance to the Common Criteria for IT Security Evaluation, Version 2.4, Revision 256.

This certificate applies only to the specific version and release of the Protection Profile and in conjunction with the complete Certification Report.

The evaluation has been conducted in accordance with the provisions of the certification scheme of the Federal Office for Information Security. The conclusions of the evaluation facility in the evaluation technical report are consistent with the evidence adduced.

This certificate is not an endorsement of the Protection Profile by the Federal Office for Information Security or any other organisation that recognises or gives effect to this certificate, and no warranty of the Protection Profile by the Federal Office for Information Security or any other organisation that recognises or gives effect to this certificate, is either expressed or implied.



## Preliminary Remarks

Under the BSIG<sup>1</sup> Act, the Federal Office for Information Security (BSI) has the task of issuing certificates for information technology products as well as for Protection Profiles (PP).

A PP defines an implementation-independent set of IT security requirements for a category of TOEs which are intended to meet common consumer needs for IT security. The development and certification of a PP or the reference to an existent one gives consumers the possibility to express their IT security needs without referring to a special product. Product or system certifications can be based on Protection Profiles. For products which have been certified based on a Protection Profile an individual certificate will be issued.

Certification of the Protection Profile is carried out on the instigation of the BSI.

A part of the procedure is the technical examination (evaluation) of the Protection Profile according to Common Criteria [1].

According to the decree issued by the Bundesministerium des Innern (Federal Ministry of the Interior) on February 22<sup>nd</sup>, 2005 the BSI is authorised to issue certificates on the basis of CC, Version 2.4, Revision 256.

The evaluation is carried out by an evaluation facility recognised by the BSI or by the BSI itself.

The result of the certification procedure is the present Certification Report. This report contains among others the certificate (summarised assessment) and the detailed Certification Results.

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<sup>1</sup> Act setting up the Federal Office for Information Security (BSI-Errichtungsgesetz, BSIG) of December 17<sup>th</sup>, 1990, Bundesgesetzblatt I p. 2834

## Contents

Part A: Certification

Part B: Certification Results

Annex: Protection Profile

## A Certification

### 1 Specifications of the Certification Procedure

The certification body conducts the procedure according to the criteria laid down in the following:

- BSIG<sup>2</sup>
- BSI Certification Ordinance<sup>3</sup>
- BSI Schedule of Costs<sup>4</sup>
- Special decrees issued by the Bundesministerium des Innern (Federal Ministry of the Interior)
- DIN EN 45011
- BSI Certification – Description of the Procedure [3]
- Procedure for the Issuance of a PP certificate by the BSI
- Common Criteria for Information Technology Security Evaluation, Version 2.4, Revision 256 [1]
- Common Methodology for IT Security Evaluation, Version 2.4, Revision 256 with the CC v2.4 Draft Interpretations #1 - #17 [2]

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<sup>2</sup> Act setting up the Federal Office for Information Security (BSI-Errichtungsgesetz, BSIG) of December 17<sup>th</sup>, 1990, Bundesgesetzblatt I p. 2834

<sup>3</sup> Ordinance on the Procedure for Issuance of a Certificate by the Federal Office for Information Security (BSI-Zertifizierungsverordnung, BSIZertV) of July 07<sup>th</sup>, 1992, Bundesgesetzblatt I p. 1230

<sup>4</sup> Schedule of Cost for Official Procedures of the Federal Office for Information Security (BSI-Kostenverordnung, BSI-KostV) of March 03<sup>rd</sup>, 2005, Bundesgesetzblatt I p. 519

## 2 Recognition Agreements

In order to avoid multiple certification of the same Protection Profile in different countries a mutual recognition of Protection Profile certificates under certain conditions was agreed.

An arrangement (Common Criteria Arrangement) on the mutual recognition of certificates based on the CC evaluation assurance levels up to and including EAL 4 was signed in May 2000. It includes also the recognition of Protection Profiles based on the CC. The arrangement was signed by the national bodies of Australia, Canada, Finland France, Germany, Greece, Italy, The Netherlands, New Zealand, Norway, Spain, United Kingdom and the United States. Israel joined the arrangement in November 2000, Sweden in February 2002, Austria in November 2002, Hungary and Turkey in September 2003, Japan in November 2003, the Czech Republic in September 2004, the Republic of Singapore in March 2005 and India in April 2005.



### 3 Performance of Evaluation and Certification

The certification body monitors each individual evaluation to ensure a uniform procedure, a uniform interpretation of the criteria and uniform ratings.

The “Low Assurance Protection Profile for an Office based Photocopier Device, Version 1.3” has undergone the certification procedure at the BSI.

The evaluation of the “Low Assurance Protection Profile for an Office based Photocopier Device, Version 1.3” was conducted by SRC Security Research & Consulting GmbH. The evaluation facility of SRC Security Research & Consulting GmbH is an evaluation facility (ITSEF)<sup>5</sup> recognised by BSI.

Author is TNO ITSEF BV.

The certification was concluded with

- the comparability check and
- the preparation of this Certification Report.

This work was completed by the BSI on July 08<sup>th</sup>, 2005.

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<sup>5</sup> Information Technology Security Evaluation Facility

## 4 Publication

The following Certification Results contain pages B-1 to B-7.

The “Low Assurance Protection Profile for an Office based Photocopier Device, Version 1.3” has been included in the BSI list of certified and registered Protection Profiles, which is published regularly (see also Internet: <http://www.bsi.bund.de>). Further information can be obtained via the BSI-Infoline +49 228/9582-111.

Further copies of this Certification Report may be ordered from the BSI<sup>6</sup>. The Certification Report may also be obtained in electronic form at the internet address stated above.

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<sup>6</sup> **BSI** - Bundesamt für Sicherheit in der Informationstechnik, Postfach 20 03 63, D-53133 Bonn  
Telefon +49 228 9582-0, Infoline +49 228 9582-111, Telefax +49 228 9582-455

## **B Certification Results**

### **Content of the Certification Results**

1	PP Overview.....	2
3	Assurance Package .....	3
4	Strength of Functions .....	3
5	Results of the Evaluation.....	4
6	Definitions.....	5
7	Bibliography.....	6

## 1 PP Overview

This „Low Assurance Protection Profile for an Office based Photocopier Device, Version 1.3“ is established by TNO ITSEF BV as basis for the development of STs for photocopier devices (TOEs) as used in a typical office environment.

Such TOEs are used in the following way: a piece of paper is placed upon its scanning mechanism, the information on that paper is converted into data, and stored on an intermediate storage device. From this intermediate storage device it is transformed, and reproduced one or multiple times on paper.

The TOE may be connected to a network for the purpose of monitoring and/or managing the TOE.

As the information being copied may be confidential in nature, it is important that:

- The TOE does not retain residual information after use, in the intermediate storage device or otherwise;
- The TOE does not leak this information to the outside world (except by printing it on paper by request of the user).

The TOE is stand-alone, and hence does not require any non-TOE hardware/software/firmware.

## 2 Security Functional Requirements

This section contains the functional requirements that must be satisfied by a TOE claiming compliance to the Low Assurance Protection Profile for an Office based Photocopier Device, Version 1.3.

All functional requirements are drawn from Common Criteria Part 2.

SFRs	Component-Name
FDP_RIP.1	Subset residual information protection
FDP_IFC.1	Subset information flow control
FDP_IFF.1	Simple Security Attributes

## 3 Assurance Package

The security assurance requirements are based entirely on the assurance components defined in Part 3 of the Common Criteria. The assurance requirements are assurance level EAL1 (Evaluation Assurance Level 1).

## 4 Strength of Functions

A strength of function claim is no longer part of the CC, Version 2.4, Revision 256.

## 5 Results of the Evaluation

The Evaluation Technical Report (ETR) [7] was provided by the ITSEF according to the Common Criteria [1], the Methodology [2], the requirements of the scheme [3] and all interpretations and guidelines of the scheme [4] as relevant for the TOE.

The verdicts for the CC, Part 3 assurance components (according to EAL1 and the class APE for the Protection Profile evaluation) are summarised in the following table.

CC Aspect	Result
CC Class APE	PASS.
APE_CCL.1	PASS.
APE_ECD.1	PASS.
APE_INT.1	PASS.
APE_OBJ.0	PASS.
APE_REQ.1	PASS.

The Low Assurance Protection Profile for an Office based Photocopier Device, Version 1.3 meets the requirements for Protection Profiles as specified in class APE and Draft Interpretation #2 of the CC, Version 2.4, Revision 256.

## 6 Definitions

### 6.1 Acronyms

<b>CC</b>	Common Criteria for IT Security Evaluation
<b>EAL</b>	Evaluation Assurance Level
<b>IT</b>	Information Technology
<b>ITSEF</b>	Information Technology Security Evaluation Facility
<b>LAPP</b>	Low Assurance Protection Profile
<b>PP</b>	Protection Profile
<b>SF</b>	Security Function
<b>SFP</b>	Security Function Policy
<b>ST</b>	Security Target
<b>TOE</b>	Target of Evaluation

### 6.2 Glossary

**Augmentation** - The addition of one or more assurance component(s) from Part 3 to an EAL or assurance package.

**Extension** - The addition to an ST or PP of functional requirements not contained in Part 2 and/or assurance requirements not contained in Part 3 of the CC.

**Formal** - Expressed in a restricted syntax language with defined semantics based on well-established mathematical concepts.

**Informal** - Expressed in natural language.

**Object** - An entity within the TSC that contains or receives information and upon which subjects perform operations.

**Protection Profile** - An implementation-independent set of security requirements for a category of TOEs that meet specific consumer needs.

**Security Function** - A part or parts of the TOE that have to be relied upon for enforcing a closely related subset of the rules from the TSP.

**Security Target** - A set of security requirements and specifications to be used as the basis for evaluation of an identified TOE.

**Semiformal** - Expressed in a restricted syntax language with defined semantics.

**Subject** - An entity within the TSC that causes operations to be performed.

**Target of Evaluation** - An IT product or system and its associated administrator and user guidance documentation that is the subject of an evaluation.

**TOE Security Functions** - A set consisting of all hardware, software, and firmware of the TOE that must be relied upon for the correct enforcement of the TSP.

**TOE Security Policy** - A set of rules that regulate how assets are managed, protected and distributed within a TOE.

**TSF Scope of Control** - The set of interactions that can occur with or within a TOE and are subject to the rules of the TSP.

## 7 Bibliography

- [1] Common Criteria for Information Technology Security Evaluation, Version 2.4, Revision 256
- [2] Common Methodology for Information Security Evaluation, Version 2.4, Revision 256 with the CC v2.4 Draft Interpretations #1 - #17
- [3] BSI Certification – Description of the Procedure (BSI 7125)
- [4] Application Notes and Interpretations of the Scheme (AIS) as relevant for the TOE
- [5] German IT Security Certificates (BSI 7148, BSI 7149)
- [6] Low Assurance Protection Profile for an Office based Photocopier Device, Version 1.3, 06.04.2005
- [7] Evaluation Technical Report (ETR), Version 1.01, 28.04.2005



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## **Annex: Protection Profile**