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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 1 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

Table of Contents

| | |
|--|-----------|
| 1. Document Introduction | 4 |
| 1.1 Reference | 4 |
| 2. SST Introduction | 5 |
| 2.1 SST Reference | 5 |
| 2.2 Site Reference | 5 |
| 2.3 Site Description | 5 |
| 2.4 Certification Scope | 6 |
| 3. Conformance Claim | 7 |
| 4. Security Problem Definition | 8 |
| 4.1 Assets | 8 |
| 4.2 Threats | 8 |
| 4.3 Organizational Security Policies | 9 |
| 4.4 Assumptions | 10 |
| 5. Security Objectives | 11 |
| 5.1 Security Objectives Rationale | 13 |
| 6. Extended Assurance Components Definition | 20 |
| 7. Security Assurance Requirements | 21 |
| 7.1 Application Notes and Refinements | 21 |
| 7.1.1 CM Capabilities (ALC_CMC.5) | 21 |
| 7.1.2 CM Scope (ALC_CMS.5) | 21 |
| 7.1.3 Development Security (ALC_DVS.2) | 21 |
| 7.1.4 Life-cycle Definition (ALC_LCD.1) | 21 |
| 7.1.5 Tools and Techniques (ALC_TAT.3) | 22 |
| 7.2 Security Requirements Rationale | 22 |
| 7.2.1 Security Requirements Rationale - Dependencies | 22 |
| 7.2.2 Security Requirements Rationale – Mapping | 22 |
| 8. Site Summary Specification | 30 |
| 8.1 Preconditions required by the Site | 30 |

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 2 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| | | |
|-----------|--|-----------|
| 8.2 | Services of the Site..... | 30 |
| 8.3 | Security Assurance Rationale | 31 |
| 8.3.1 | CM capabilities (ALC_CMC.5)..... | 31 |
| 8.3.2 | CM scope (ALC_CMS.5)..... | 31 |
| 8.3.3 | Development Security (ALC_DVS.2)..... | 31 |
| 8.3.4 | Life-cycle definition (ALC_LCD.1)..... | 31 |
| 8.3.5 | Tools and techniques (ALC_TAT.3) | 31 |
| 8.4 | Objectives Rationale | 32 |
| 8.4.1 | O.Config_IT-env | 32 |
| 8.4.2 | O.Physical-Access..... | 32 |
| 8.4.3 | O.Security-Control | 32 |
| 8.4.4 | O.Alarm-Response | 32 |
| 8.4.5 | O.Internal-Monitor | 33 |
| 8.4.6 | O.Logical-Operation | 33 |
| 8.4.7 | O.Staff-Engagement..... | 33 |
| 8.4.8 | O.Control-Scrap..... | 34 |
| 8.4.9 | O.Config_Activities..... | 34 |
| 8.4.10 | O.Network_Separation | 34 |
| 8.4.11 | O.Maintain_Security | 34 |
| 8.4.12 | O.LifeCycle_doc..... | 35 |
| 9. | References | 36 |
| 9.1 | Literature | 36 |
| 9.2 | List of Abbreviations | 37 |
| 9.3 | Revision History | 37 |

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 3 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

Table of Figures

| | |
|---|----|
| Table 1 Threats and OSP - Security Objectives Rationale | 19 |
| Table 2 Rationale for ALC_CMC.5..... | 25 |
| Table 3 Rationale for ALC_CMS.5..... | 26 |
| Table 4 Rationale for ALC_DVS.2..... | 27 |
| Table 5 Rationale for ALC_LCD.1..... | 28 |
| Table 6 Rationale for ALC_TAT.3..... | 29 |

Publication Summary

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|---------------------------|--|
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| Publisher | Business Unit Security & Connectivity |
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| Author | Gordon Caffrey |
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Objectives / Purpose

See chapter 2.0 onwards.

Scope

This document is applicable to the following organisation(s): BU Security and Connectivity, Wroclaw

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 4 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

1. Document Introduction

1.1 Reference

Title: Site Security Target Lite Global Logic Wroclaw

Version: 1.1

Date: 7/25/2018

Company: Global Logic Wroclaw

Name of site: Global Logic Wroclaw

EAL: SARs taken from EAL6

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 5 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

2. SST Introduction

- 1 All chapters of this document are based upon the Eurosmart Site Security Target Template [1] with adaptations such that it fits the site (i.e. development site, testing of software, no production, no direct delivery to customers of the user of the site).

This Site Security Target is intended to be used by NXP Semiconductors Business Unit Identification (BU S&C).

2.1 SST Reference

- 2 Title Site Security Target Lite Global Logic Wroclaw
- 3 Version 1.1

2.2 Site Reference

- 4 The site belongs to Global Logic Wroclaw and is located at:
- 5 Global Logic Wroclaw sp. z o.o.
Strzegomska 56B Street, 53-611 Wroclaw, POLAND

2.3 Site Description

- 6 Building located at Wrocław, Strzegomska 56B Street has 3 floors. Offices in building are shared by a few companies. Part of ground floor is occupied by Global Logic employees.
- 7 For a more detail site description please view Global Logic Wroclaw Site Security Manual
- 8 The activities are: Security IC Embedded Software Development (Phase 1), IC Embedded Software and Testing (Phase 1), IC Design (Phase 2), IC Dedicated Software and Testing (Phase 1) as defined in 'Security IC Platform Protection Profile' (PP-0035) and 'Security IC Platform Protection Profile with Augmentation Packages' (PP-0084)
- 9 To perform these activities the site uses the NXP BU S&C provided and managed remote IT-infrastructure. Locally available IT equipment like workstations or VPN routers are also provided and managed by NXP BU S&C directly. The site works according to NXP BU S&C processes.

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 6 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

10 The NXP activities (and areas where they are performed) are:

| Activity | Area |
|---|-----------------|
| Development and testing* of software for secure integrated circuits. | NXP Secure Area |
| Also development and testing of IC Hardware Design secure integrated circuits | NXP Secure Area |
| Engineering Test of Software development | NXP Secure Area |

11 The typical Life Cycle model for NXP Smart Cards usually comprises the following phases:

- Development,
- Production,
- Delivery,
- Preparation,
- Operation,

12 Whereas the site under evaluation supports only the life cycle phase

- Development

13 Development comprises of the generation of source code modules and the test of this code for NXP only.

2.4 Certification Scope

14 The scope of this Certification is limited to NXP products development performed by Global Logic. Global Logic activities are performed securely in the NXP logical environment all other customers activities are therefore out of scope.

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 7 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

3. Conformance Claim

15 This SST is conformant with Common Criteria Version 3.1:

- Common Criteria for Information Technology Security Evaluation, Part 1: Introduction and General Model; Version 3.1, Revision 5, April 2017, [2]
- Common Criteria for information Technology Security Evaluation, Part 3: Security Assurance Requirements; Version 3.1, 5, April 2017, [3]

16 For the evaluation, the following methodology will be used:

- Common Methodology for Information Security Evaluation (CEM), Evaluation Methodology; Version 3.1, 5, April 2017, [4]
- Minimum Site Security Requirement V1.1 June 2013 [10]

17 This SST is CC Part 3 conformant.

18 There are no extended components required for this SST for the Global Logic Wroclaw Site.

19 The evaluation of the site comprises the following assurance components²:

- ALC_CMC.5,
- ALC_CMS.5,
- ALC_DVS.2,
- ALC_LCD.1,
- ALC_TAT.3.

20 The assurance level chosen for the SST is compliant to the Security IC Platform Protection Profile [5] and is therefore suitable for the evaluation of software and Hardware design for Security ICs.

21 The chosen assurance components are derived from the assurance level EAL6 of the assurance class "Life-cycle Support". For the assessment of the security measures attackers with a high attack potential are assumed. Therefore this site supports potentially augmented product evaluations up to EAL6.

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 8 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

4. Security Problem Definition

22 The Security Problem Definition comprises security problems derived from threats against the assets handled by the site.

23 Where necessary the items in this section have been re-worked to fit the site

4.1 Assets

24 The following section describes the assets handled at the site.

NXP Development data: The site has access to (and optionally copies thereof) electronic development data (specifications, guidance documentation, source code, etc.) in relation to developed TOEs. Both the integrity and the confidentiality of these electronic documents must be protected.

NXP Development tools: To perform its development activities the site uses tools (e.g. compiler) to transform source code (and potentially the libraries that come with these tools) into binaries. The integrity of these tools (running on local or remote development computers) must be protected.

NXP Physical security objects: The site has physical security objects (printed documents, engineering samples, etc.) in relation to developed TOEs. Both the integrity and the confidentiality of these must be protected.

4.2 Threats

T.Smart-Theft: An attacker tries to access sensitive areas of the site for manipulation or theft of assets (1) In this case development data with the intention to violate confidentiality and possibly integrity (2) Physical security objects in the form of printed documentation or engineering samples (3) Development Tools in the form of IT infrastructure hardware. The attacker has sufficient time to investigate the site outside the controlled boundary. For the attack the use of standard equipment for burglary is considered.

T.Rugged-Theft: An attacker with specialized equipment for burglary, who may be paid to perform the attack, tries to access sensitive areas and manipulate or steal assets (1) In this case development data with the intention to violate confidentiality and possibly integrity (2) Physical security objects in the form of printed documentation or engineering samples (3) Development Tools in the form of IT infrastructure hardware.

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 9 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

T.Computer-Net: A possibly paid hacker with substantial expertise using standard equipment attempts to remotely access sensitive network segments to get access to (1) development data with the intention to violate confidentiality and possibly integrity or (2) development computers with the intention to modify the development process.

T.Unauthorised-Staff: Employees or subcontractors not authorized to get access to assets by violating (1) In this case development data with the intention to violate confidentiality and possibly integrity (2) Physical security objects in the form of printed documentation or engineering samples (3) Development Tools in the form of IT infrastructure hardware.

T.Staff-Collusion: An attacker tries to get access to assets by getting support from one employee through extortion or bribery. (1) In this case development data with the intention to violate confidentiality and possibly integrity (2) Physical security objects in the form of printed documentation or engineering samples (3) Development Tools in the form of IT infrastructure hardware.

T.Attack-Transport: An attacker tries to get access to shipped physical security objects when shipped in or out of the site with the intention to compromise confidentiality and/or integrity of the product design data, customer and/or consumer data like code and data (including personalisation data and/or keys) stored in the ROM and/or EEPROM or classified product documentation.

4.3 Organizational Security Policies

P.Config_IT-env: The site uses software on development workstations and servers in addition to configuration management systems for file versioning and problem tracking. For file versioning unique repositories shall be used to support proper management of multiple products and the site internal procedures. The team members are instructed to use only project related IT equipment provided by NXP with the provided tools.

P.LifeCycle-Doc: The site uses life cycle documentation that describes:

- (1) Description of configuration management systems and their usage;
- (2) A configuration items list;
- (3) Site security;
- (4) The development process;
- (5) The development tools.

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 10 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

P.Config_Activities: The activities of the site shall be performed in accordance with the life cycle documentation (P.Config_IT-env) using the IT-environment (P.LifeCycle-Doc).

4.4 Assumptions

A.Inherit-secure-IT: The local IT equipment (e.g. workstations) is connected to a secure remote IT-Infrastructure through a secure (encrypted) network connection. The local workstations, the remote secure IT-infrastructure and the secure connection to it will satisfy all relevant ALC requirements and are provided and managed by NXP. The workstations are configured such that any assets are contained within encrypted containers.

A.Setup-Projects: To enable that the site participates in the development of products NXP provides services to setup the necessary development computers (tools, user accounts, etc.) and configuration management systems (user accounts, repositories etc.).

A.Product-Setup: The site participates in the development of products. To define the participation of the site in the development while maintaining quality, for each product NXP will manage the activities to be performed by the site, the specifications of the input for the site and the acceptance of the results by NXP.

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 11 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

5. Security Objectives

25 The Security Objectives are related to physical, technical, and organizational security measures, the configuration management as well as the internal shipment and/or the external delivery.

O.Config_IT-env: The site uses software on development workstations and servers in addition to configuration management systems for file versioning and problem tracking. For file versioning unique repositories are used to support proper management of multiple products and the site internal procedures.

O.LifeCycle-Doc: The site uses life cycle documentation that describes:

- (1) Description of configuration management systems and their usage;
- (2) A configuration items list;
- (3) Site security;
- (4) The development process;
- (5) The development tools.
- (6) CM_Plan

O.Config_Activities: The activities of the site are performed in accordance with the life cycle documentation (O.Config_IT-env) using the IT-environment (O.LifeCycle-Doc).

O.Physical-Access: The combination of physical partitioning between the different access control levels together with technical and organisational security measures allows a sufficient separation of employees to enforce the “need to know” principle. The access control shall support the limitation for the access to these areas including the identification and rejection of unauthorised people. The access control measures ensure that only registered employees can access restricted areas. Assets are handled in restricted areas only.

O.Security-Control: Assigned personnel of the site operate the systems for access control. Out of hour surveillance and respond to alarms is contracted to a 3rd party security company. Technical security measures like motion sensors and similar kind of sensors support the enforcement of the access control. NXP personnel are also responsible for registering and ensuring escort of visitors, contractors and suppliers.

O.Alarm-Response: The technical and organisational security measures ensure that an alarm is generated before an unauthorised person gets access to any asset. After the alarm is triggered the unauthorised person still has to overcome further security measures. The

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 12 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

reaction time of the employees and/or guards is short enough to prevent a successful attack.

O.Internal-Monitor: The site performs security management meetings at least every six months. The security management meetings are used to review security incidences, to verify that maintenance measures are applied and to reconsider the assessment of risks and security measures. Furthermore, an internal audit is performed every year to control the application of the security measures.

O.Maintain-Security: Technical security measures are maintained regularly to ensure correct operation. The logging of sensitive systems is checked regularly. This comprises the access control system to ensure that only authorised employees have access to sensitive areas as well as computer/network systems to ensure that they are configured as required to ensure the protection of the networks and computer systems.

O.Network-separation: The (plain-text) development network of the site exists within the secured areas of the site only. It is connected only to:

(1) The encryption equipment employs encrypted VPNs to the secure network provided by the NXP;

(2) The development workstations provided by the NXP;

(3) Additional equipment (e.g. a printer) approved by the NXP.

O.Logical-Operation: Development computers enforce that every user authenticates using a password and has a unique user ID.

O.Control-Scrap: The site has measures in place to either securely destroy assets (e.g. paper shredder) or return them to the NXP for destruction.

O.Staff-Engagement: All employees who have access to assets are checked regarding security concerns and have to sign a non-disclosure agreement. Furthermore, all employees are trained and qualified for their job. All contractors and visitors must be escorted by a trained employee at all times.

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 13 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

5.1 Security Objectives Rationale

26 The SST includes a Security Objective Rationale with two parts. The first part includes the tracing which shows how the threats and OSPs are covered by the Security Objectives. The second part includes a justification that shows that all threats and OSPs are effectively addressed by the Security Objectives (see column "Rationale" of table 1 and Table 2)

27 Note that the assumptions of the SST cannot be used to cover any threat or OSP of the site. They are seen as pre-conditions fulfilled either by the site providing the sensitive configuration items or by the site receiving the sensitive configuration items. Therefore, they do not contribute to the security of the site under evaluation.

| Threat and OSP | Security Objective(s) | Rationale |
|----------------|---|---|
| T.Smart-Theft | O.Lifecycle-Doc O.Physical-Access O.Control-Scrap O.Security-Control O.Alarm-Response O.Internal-Monitor O.Maintain-Security O.Config_Activities | <p>O.Lifecycle-Doc ensure that procedures are documented which assist in preventing Theft.</p> <p>O.Physical-Access ensures that the Secure Room is physically partitioned off, so that a burglar cannot just walk in.</p> <p>O.Control-Scrap ensures that scrap material cannot be accessed by an authorized party</p> <p>O.Security-Control ensures that an attacker will be detected when trying to reach the assets through the Secure Room</p> <p>O.Alarm-Response supports</p> <p>O.Physical_Access and O.Security_Control by ensuring that a response will be given to the alarm systems and that this response is quick enough to prevent access to the assets.</p> <p>O.Internal-Monitor and O.Maintain-Security ensure that the above is managed and maintained.</p> <p>O.Config_Activities activities of the site are performed in accordance with the life cycle documentation.</p> <p>Together, these objectives will therefore counter T.Smart_Theft.</p> |

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 14 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| | | |
|----------------|---|--|
| T.Rugged-Theft | O.Lifecycle-Doc O.Physical-Access O.Control-Scrap O.Security-Control O.Alarm-Response O.Internal-Monitor O.Maintain-Security O.Config_Activities | <p>O.Lifecycle-Doc ensure that procedures are documented which assist in preventing Theft.</p> <p>O.Physical-Access ensures that the Secure Room is physically partitioned off, so that a burglar cannot just walk in.</p> <p>O.Control-Scrap ensures that scrap material cannot be accessed by an authorized party</p> <p>O.Security-Control ensures that an attacker will be detected when trying to reach the assets through the Secure Room</p> <p>O.Alarm-Response supports O.Physical_Access and O.Security_Control by ensuring that a response will be given to the alarm systems and that this response is quick enough to prevent access to the assets.</p> <p>O.Internal-Monitor and O.Maintain-Security ensure that the above is managed and maintained.</p> <p>O.Config_Activities activities of the site are performed in accordance with the life cycle documentation.</p> <p>Together, these objectives will therefore counter T.Rugged_Theft</p> |
|----------------|---|--|

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 15 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| | | |
|----------------|---|--|
| T.Computer-Net | O.Config_IT-env O.Lifecycle-Doc O.Network-separation O.Physical-Access O.Logical-Operation O.Internal-Monitor O.Maintain-Security O.Control-Scrap O.Staff-Engagement O.Config_Activities | <p>O.Config_IT-env assigns unique numbers to the internal procedures and guidance. This helps enforce segregation of duties and the need to know principals.</p> <p>O.Network-separation ensures that the development network is not connected to anything that an attacker could use to set up a remote connection</p> <p>O.Physical-Access ensures that all communication between the Secure Room and the Business Unit is done through encryption equipment (provided by the Business Unit). The attacker can therefore neither:</p> <ul style="list-style-type: none"> • Listen in on or manipulate the network connection between the Secure Room and the Business Unit • Penetrate the Secure Room management stations through this connection <p>The attacker also cannot use other networks that lead into the Secure Room as O.Physical-Access also ensures that all such connections are not connected to the encryption equipment.</p> <p>In addition, O.Logical-Operation ensures that all computer systems used to manage the Business Unit network are kept up to date (software updates, security patches, virus and spyware protection)</p> <p>O.Lifecycle-Doc ensure that procedures are documented which assist in preventing Unauthorised Staff access.</p> <p>O.Internal-Monitor and O.Maintain-Security ensure that the above is managed and maintained.</p> <p>O.Control-Scrap ensures that scrap material cannot be accessed by an authorized party</p> |
|----------------|---|--|



| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 16 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| | | |
|--|--|---|
| | | <p>O.Config_Activities activities of the site are performed in accordance with the life cycle documentation.</p> <p>O.Staff-Engagement ensures that all staff is aware of its responsibilities (signing NDAs, and being trained).</p> <p>Together, these objectives will therefore counter T.Computer-Net and T.Attack-Transport.</p> |
|--|--|---|

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 17 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| | | |
|----------------------|---|--|
| T.Unauthorised-Staff | <ul style="list-style-type: none"> O.Physical-Access O.Security-Control O.Alarm-Response O.Internal-Monitor O.Maintain-Security O.Config_IT-env O.Logical-Operation O.Control-Scrap O.Config_Activities O.Network-separation O.Lifecycle-Doc O.Staff-Engagement | <p>O.Security_Control ensures that all unauthorised people who have a legitimate need to visit the Secure Room are always accompanied.</p> <p>O.Physical-Access, O.Security-Control and O.Alarm-Response ensures that the unauthorised people cannot circumvent this (see the rationale for T.Smart-Theft for more details on this)</p> <p>O.Internal-Monitor and O.Maintain-Security ensure that the above is managed and maintained.</p> <p>O.Config_IT-env assigns unique numbers to the internal procedures and guidance. This helps enforce segregation of duties and the need to know principals.</p> <p>O.Control-Scrap ensures that scrap material cannot be accessed by an authorized party</p> <p>O.Config_Activities activities of the site are performed in accordance with the life cycle documentation.</p> <p>O.Network-separation ensures that that access can only be gained to networks on a need to know basis</p> <p>In addition, O.Logical-Operation ensures that all computer systems used to manage the Business Unit network are kept up to date (software updates, security patches, virus and spyware protection)</p> <p>O.Lifecycle-Doc ensure that procedures are documented which assist in preventing Unauthorised Staff access.</p> <p>O.Staff-Engagement ensures that all staff is aware of its responsibilities (signing NDAs, and being trained).</p> <p>Together, these objectives will therefore counter T.Unauthorised-Staff.</p> |
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| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 18 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| | | |
|--------------------|---|---|
| T.Staff-Collusion | <p>O.Internal-Monitor O.Maintain-Security O.Staff-Engagement O.Config_IT-env O.Control-Scrap O.Config_Activities O.Lifecycle-Doc O.Physical-Access</p> | <p>O.Staff-Engagement ensures that all staff is aware of its responsibilities (signing NDAs, and being trained). O.Internal-Monitor and O.Maintain-Security ensure that the above is managed and maintained. O.Config_IT-env assigns unique numbers to the internal procedures and guidance. This helps enforce segregation of duties and the need to know principals. O.Control-Scrap ensures that scrap material cannot be accessed by an authorized party O.Config_Activities activities of the site are performed in accordance with the life cycle documentation. O.Lifecycle-Doc ensure that procedures are documented which assist in preventing Unauthorised Staff access which is prevented by O.Physical-Access. Together, these objectives will therefore counter T.Staff-Collusion.</p> |
| T.Attack-Transport | <p>O.Internal-Monitor O.Maintain-Security O.Config_Activities O.Lifecycle-Doc</p> | <p>O.Internal-Monitor and O.Maintain-Security ensure that the above is managed and maintained. O.Lifecycle-Doc ensure that procedures are documented which assist in preventing Unauthorised Staff access. O.Config_Activities activities of the site are performed in accordance with the life cycle documentation. Together, these objectives will therefore counter T. Attack-Transport</p> |
| P.Config_IT-env | O.Config_IT-env | <p>The Security Objective directly enforces the OSP. O.Config_IT-env assigns unique numbers to the internal procedures and guidance. As the site processes no other configuration items, this is sufficient to meet P.Config_IT-env.</p> |

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 19 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| | | |
|---------------------|--|--|
| P.Config_Activities | O.Config_Activities O.Network-separation O.Physical-Access | <p>The Security Objective directly enforces the OSP.</p> <p>O.Config_Activities activities of the site are performed in accordance with the life cycle documentation.</p> <p>O.Network-separation ensures that that access can only be gained to networks on a need to know basis which is supported by O.Physical-Access.</p> <p>The services and processes provided by the site are described in the internal procedures and guidance. As these are kept under CM (see the rationale above), this is sufficient to meet P.Config_Activities.</p> |
| P.LifeCycle-doc | O.LifeCycle-doc | <p>The Security Objective directly enforces the OSP.</p> <p>This ensures life cycle documentation that describes configuration management systems, Site security, development process and tools providing a CM_Plan is sufficient to meet P.LifeCycle-doc.</p> |

Table 1 Threats and OSP - Security Objectives Rationale

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| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 20 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

6. Extended Assurance Components Definition

28 No extended components are defined in this Site Security Target.

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 21 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

7. Security Assurance Requirements

29 Global Logic Wroclaw using this Site Security Target requires a TOE evaluation up to evaluation assurance level EAL6, potentially claiming conformance with the Eurosmart Protection Profile [5].

30 The Security Assurance Requirements are chosen from the class ALC (Life-cycle support) as defined in [3]:

- CM capabilities (ALC_CMC.5)
- CM scope (ALC_CMS.5)
- Development Security (ALC_DVS.2)
- Life-cycle definition (ALC_LCD.1)
- Tools and techniques (ALC_TAT.3)
-

31 Because hierarchically higher components are used in this SST the Security Assurance Requirements listed above fulfil the requirements of:

- [10] 'Minimum Site Security Requirements'
- [5] Eurosmart Protection Profile.

7.1 Application Notes and Refinements

32 The description of the site certification process [6] includes specific application notes. The main item is that a product that is considered as intended TOE is not available during the evaluation. Since the term "TOE" is not applicable in the Site Security Target, the associated processes for the handling of products, or "intended TOEs" are in the scope of this Site Security Target and are described in this document. These processes are subject of the evaluation of the site.

7.1.1 CM Capabilities (ALC_CMC.5)

33 Refer to subsection 'Application Notes for Site Certification' in [6] 5.1 'Application Notes for ALC_CMC'.

7.1.2 CM Scope (ALC_CMS.5)

34 Refer to subsection 'Application Notes for Site Certification' in [6] 5.2 'Application Notes for ALC_CMS'.

7.1.3 Development Security (ALC_DVS.2)

35 Refer to subsection 'Application Notes for Site Certification' in [6] 5.4 'Application Notes for ALC_DVS'.

7.1.4 Life-cycle Definition (ALC_LCD.1)

36 Refer to subsection 'Application Notes for Site Certification' in [6] 5.6 'Application Notes for ALC_LCD'.

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 22 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

37 Refer to ‘*Application Note 26*’ in 6.2.1.2 ‘Refinements regarding Development Security (ALC_DVS)’ in the Eurosmart PP [5].

38 Refer to subsection ‘*Refinement*’ in 6.2.1.2 ‘Refinements regarding Development Security (ALC_DVS)’ in the Eurosmart PP [5].

39 Refer to subsection “C Excerpts from the Criteria in Security assurance components (chapter 7)” in [12] Security IC Platform Protection Profile (BSI-CC-PP-0084-2014), Version 1.0, Eurosmart, 2014.

7.1.5 Tools and Techniques (ALC_TAT.3)

40 Refer to subsection ‘Application Notes for Site Certification’ in [6] 5.7 ‘Application Notes for ALC_TAT’.

7.2 Security Requirements Rationale

7.2.1 Security Requirements Rationale - Dependencies

41 The dependencies for the assurance requirements are as follows:

- ALC_CMC.5: ALC_CMS.1, ALC_DVS.2, ALC_LCD.1
- ALC_CMS.5: None
- ALC_DVS.2: None
- ALC_LCD.1: None
- ALC_TAT.3: ADV_IMP.1
-

42 Some of the dependencies are not (completely) fulfilled:

- ALC_LCD.1 is only partially fulfilled as the site does not represent the entire development environment. This is in-line with and further explained in [6] 5.1 ‘Application Notes for ALC_CMC’.
- ADV_IMP.1 is not fulfilled as there is no specific TOE. This is in-line with and further explained in [6] 5.7 ‘Application Notes for ALC_TAT’.

7.2.2 Security Requirements Rationale – Mapping

| SAR | Security Objective | Rationale |
|---|---|---|
| ALC_CMC.5.1C: The CM documentation shall show that a process is in place to ensure an | O.Config_IT-env O.LifeCycle-Doc O.Config_Activities | Appropriate and consistent labelling is ensured through the application (O.Config_Activities) of the CM-Plan (O.LifeCycle-Doc) and the use of the configuration |

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 23 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| SAR | Security Objective | Rationale |
|---|---|--|
| appropriate and consistent labeling. | | management systems (O.Config_IT-env). |
| ALC_CMC.5.2C: The CM documentation shall describe the method used to uniquely identify the configuration items. | O.LifeCycle-Doc | The method used to uniquely identify the configuration items is described in the CM-Plan (O.LifeCycle-Doc). |
| ALC_CMC.5.3C: The CM documentation shall justify that the acceptance procedures provide for an adequate and appropriate review of changes to all configuration items. | O.LifeCycle-Doc | The adequate and appropriate acceptance procedures for configuration items are described in the CM-Plan (O.LifeCycle-Doc). |
| ALC_CMC.5.4C: The CM system shall uniquely identify all configuration items. | O.Config_IT-env O.LifeCycle-Doc O.Config_Activities | Unique identification of all CIs is realized by performing the CM activities (O.Config_Activities) in accordance with the CM-Plan (O.LifeCycle-Doc) using the Configuration management systems (O.Config_IT-env) |
| ALC_CMC.5.5C: The CM system shall provide automated measures such that only authorized changes are made to the configuration items. | O.Config_IT-env O.LifeCycle-Doc O.Config_Activities | The configuration management systems (O.Config_IT-Env) used (O.Config_Activities) according to the CM-Plan (O.LifeCycle-Doc) enforces automated measures such that only authorized changes are made to the configuration items |
| ALC_CMC.5.6C: The CM system shall support the production of the product by automated means. | O.Config_IT-env O.LifeCycle-Doc O.Config_Activities | The software on the development computers (O.Config_IT-env) supports automated production of products when used (O.Config_Activities) in accordance with the CM-Plan (O.LifeCycle-Doc) |
| ALC_CMC.5.7C: The CM system shall ensure that the person responsible for accepting a configuration item into | O.LifeCycle-Doc O.Config_Activities | As described in the CM-Plan (O.LifeCycle-Doc) the activities performed (O.Config_Activities) are such that the person responsible for accepting a |

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 24 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| SAR | Security Objective | Rationale |
|--|------------------------------------|--|
| CM is not the person who developed it. | | configuration item into CM is not the person who developed it. |
| ALC_CMC.5.8C: The CM system shall clearly identify the configuration items that comprise the TSF. | O.Config_IT-env O.LifeCycle-Doc | The CM-Plan (O.LifeCycle-Doc) identifies the configuration items that comprise the TSF possibly supported by the configuration management system (O.Config_IT-env) |
| ALC_CMC.5.9C: The CM system shall support the audit of all changes to the TOE by automated means, including the originator, date, and time in the audit trail. | O.Config_IT-env O.LifeCycle-Doc | As described in the CM_Plan (O.LifeCycle-Doc) the configuration management systems (O.Config_IT-env) are configured such that an audit trail (showing originator, date and time) is automatically generated. |
| ALC_CMC.5.10C: The CM system shall provide an automated means to identify all other configuration items that are affected by the change of a given configuration item. | O.Config_IT-env O.LifeCycle-Doc | As described in the CM_Plan (O.LifeCycle-Doc) the configurations management system and software installed on the development workstations and servers (O.Config_IT-env) provide automated means to identify all other configuration items that are affected by the change of a given configuration item. |
| ALC_CMC.5.11C: The CM system shall be able to identify the version of the implementation representation from which the TOE is generated. | O.Config_IT-env O.LifeCycle-Doc | As described in the CM_Plan (O.LifeCycle-Doc) the configurations management system (O.Config_IT-env) identifies the version of the implementation representation from which the TOE is generated through baselines. |
| ALC_CMC.5.12C: The CM documentation shall include a CM plan. | O.LifeCycle-Doc | The life cycle documentation (O.LifeCycle-Doc) includes a CM-Plan. |
| ALC_CMC.5.13C: The CM plan shall describe how the CM system is used for the development of the TOE. | O.LifeCycle-Doc | The life cycle documentation (O.LifeCycle-Doc) describes how the CM system is used for the development of the product. |

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 25 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| SAR | Security Objective | Rationale |
|--|------------------------------------|---|
| ALC_CMC.5.14C: The CM plan shall describe the procedures used to accept modified or newly created configuration items as part of the TOE | O.LifeCycle-Doc | The acceptance procedures for modified or newly created configuration items are described in the CM-Plan (O.LifeCycle-Doc). |
| ALC_CMC.5.15C: The evidence shall demonstrate that all configuration items are being maintained under the CM system. | O.LifeCycle-Doc | All configuration items are listed in the CI-list (O.LifeCycle-Doc) |
| ALC_CMC.5.16C: The evidence shall demonstrate that all configuration items have been and are being maintained under the CM system. | O.Config_IT-env O.LifeCycle-Doc | The CI-list (O.LifeCycle-Doc) is generated from the configuration management systems (O.Config_IT-env) |

Table 2 Rationale for ALC_CMC.5

| SAR | Security Objective | Rationale |
|--|--------------------|---|
| ALC_CMS.5.1C: The configuration list includes the following: the TOE itself; the evaluation evidence required by the SARs in the ST; the parts that comprise the TOE; the implementation representation; security flaws; and development tools and related information. The CM | O.LifeCycle-Doc | The life cycle documentation (O.LifeCycle-Doc) includes a CM-Plan and a CI-List with the items required by ALC_CMS.5.1C |

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 26 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| SAR | Security Objective | Rationale |
|---|--------------------|---|
| documentation shall include a CM plan. | | |
| ALC_CMS.5.2C: The configuration list shall uniquely identify the configuration items. | O.LifeCycle-Doc | The CI-List (O.LifeCycle-Doc) uniquely identifies the configurations items as described in the CM-Plan (O.LifeCycle-Doc). |
| ALC_CMS.5.3C: For each configuration item, the configuration list shall indicate the developer/subcontractor of the item. | O.LifeCycle-Doc | The CI-List (O.LifeCycle-Doc) indicates the developer/subcontractor for each configuration items as described in the CM-Plan (O.LifeCycle-Doc). |

Table 3 Rationale for ALC_CMS.5

| SAR | Security Objective | Rationale |
|---|---|---|
| ALC_DVS.2.1C: The development security documentation shall describe all the physical, procedural, personnel, and other security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation in its development environment. | O.LifeCycle-Doc O.Physical-Access O.Security-Control O.Alarm-Response O.Internal-Monitor O.Maintain-Security O.Network-separation O.Logical-Operation O.Control-Scrap O.Staff-Engagement | The development security documentation (O.LifeCycle-Doc) describes the physical (O.Physical-Access, O.Security-Control, O.Alarm-Response), procedural (O.Internal-Monitor, O.Maintain-Security, O.Control-Scrap), personnel (O.Staff-Engagement), and other (O.Network-separation, O.Logical-Operation) security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation in its |

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 27 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| | | |
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| | | development environment. |
| ALC_DVS.2.2C: The development security documentation shall justify that the security measures provide the necessary level of protection to maintain the confidentiality and integrity of the TOE. | O.LifeCycle-Doc | The development security documentation (O.LifeCycle-Doc) justifies the security measures provide the necessary level of protection to maintain the confidentiality and integrity of the TOE. |
| ALC_DVS.2.3C: The evidence shall justify that the security measures provide the necessary level of protection to maintain the confidentiality and integrity of the TOE. | O.LifeCycle-Doc O.Physical-Access O.Security-Control O.Internal-Monitor O.Maintain-Security O.Network-separation O.Logical-Operation O.Control-Scrap O.Staff-Engagement | The development security documentation (O.LifeCycle-Doc) describes the physical (O.Physical-Access, O.Security-Control), procedural (O.Internal-Monitor, O.Maintain-Security, O.Control-Scrap), personnel (O.Staff-Engagement), and other (O.Network-separation, O.Logical-Operation) security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation in its development environment. |

Table 4 Rationale for ALC_DVS.2

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 28 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| SAR | Security Objective | Rationale |
|---|--------------------|---|
| ALC_LCD.1.1C: The life-cycle definition documentation shall describe the model used to develop and maintain the TOE. | O.LifeCycle-Doc | The model used to develop the TOE is described in the life cycle documentation (O.LifeCycle-Doc) |
| ALC_LCD.1.2C: The life-cycle model shall provide for the necessary control over the development and maintenance of the TOE. | O.LifeCycle-Doc | The life cycle model as described in the life cycle documentation (O.LifeCycle-Doc) provides for the necessary control over the development and maintenance of the TOE. |

Table 5 Rationale for ALC_LCD.1

| SAR | Security Objective | Rationale |
|---|--------------------|---|
| ALC_TAT.3.1C: Each development tool used for implementation shall be well-defined. | O.LifeCycle-Doc | The life cycle documentation (O.LifeCycle-Doc) shows that the development tools used for implementation are well-defined. |
| ALC_TAT.3.2C: The documentation of each development tool shall unambiguously define the meaning of all statements as well as all conventions and directives used in the implementation. | O.LifeCycle-Doc | The life cycle documentation (O.LifeCycle-Doc) together with the documentation of the development tools unambiguously defines the meaning of all statements as well as all conventions and directives used in the implementation. |
| ALC_TAT.3.3C: The documentation of each development tool shall | O.LifeCycle-Doc | The life cycle documentation (O.LifeCycle-Doc) together with the |

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| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 29 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

| SAR | Security Objective | Rationale |
|---|--------------------|---|
| unambiguously define the meaning of all implementation-dependent options. | | documentation of the development tools unambiguously defines the meaning of all implementation-dependent options. |

Table 6 Rationale for ALC_TAT.3

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| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 30 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

8. Site Summary Specification

8.1 Preconditions required by the Site

- 43 The site activities for NXP are performed using an NXP IT infrastructure consisting of development workstations, servers and configuration management systems. All of these are provided, configured and maintained by the NXP.
- 44 The NXP IT infrastructure consists of local and remote equipment connected using an encrypted connection. NXP Head Office Hamburg (Master IT Site) provides, configures and maintains the local workstations and router (used for the encrypted connection) and all remote equipment such that they are secure. The workstations are configured such that any assets are contained within encrypted containers.
- 45 In case of necessary updates to the life cycle documentation NXP will coordinate, communicate and deliver.
- 46 To enable that the site participates in the development of products NXP provides services to setup the necessary development computers (tools, user accounts, etc.) and configuration management systems (user accounts, repositories etc.).
- 47 In case the site is unable to securely destroy certain physical assets the assets will be securely stored and shipped to NXP for destruction.
- 48 To define the participation of the site in the development while maintaining quality, for each product NXP will manage the activities to be performed, the specifications of the input for the site and the acceptance of the results.
- 49 The site follows the development processes of NXP. Applicable policies and processes are documented and available.

8.2 Services of the Site

- 50 The site participates in the design, development and engineering test of software for NXP secure integrated circuits.

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| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 31 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

8.3 Security Assurance Rationale

8.3.1 CM capabilities (ALC_CMC.5)

51 Configuration Management is described in [7], [8] and [12].

52 For full detail and evidences please view Section 7.2.2

8.3.2 CM scope (ALC_CMS.5)

53 Configuration Management is described in [7], [8] and [12].

54 For full detail and evidences please view Section 7.2.2

8.3.3 Development Security (ALC_DVS.2)

55 Development Security is described in [8].

56 For full detail and evidences please view Section 7.2.2

8.3.4 Life-cycle definition (ALC_LCD.1)

57 Life-cycle definition is described in [7] and [8].

58 For full detail and evidences please view Section 7.2.2

8.3.5 Tools and techniques (ALC_TAT.3)

Tools and techniques is described in [8].

59 For full detail and evidences please view Section 7.2.2

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 32 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

8.4 Objectives Rationale

60 The following rationale provides a justification that shows that all threats and OSP are effectively addressed by the Security Objectives.

8.4.1 O.Config_IT-env

61 The configuration of the IT environment is designed in such way to ensure segregation of duties and the need to know principals. These measures address T.Computer-Net, T.Staff-Collusion and T.Unauthorized-Staff. Also addresses the OSP P.Config-IT-env.

8.4.2 O.Physical-Access

The physical access is supported by O.Security-Control that includes the maintenance of the access control and the control of visitors. The physical security measures are supported by O.Alarm-Response providing an alarm system.

Thereby the threats T.Smart-Theft, T.Rugged-Theft can be prevented. The physical security measures together with the security measure provided by O.Security-Control enforce the recording of all actions. Thereby also T.Computer-Net, T.Staff-Collusion and T.Unauthorized-Staff is addressed. Also addresses the OSP P.Config-Activities.

8.4.3 O.Security-Control

62 During off hours the guard patrol the internal of the building and the alarm system is used to monitor the site with a dedicated off site monitoring station. The CCTV system supports these measures because it is always enabled and monitored 24/7. The security control is further supported by O.Physical-Access requiring different level of access control for the access to security product during operation as well as during off-hours.

63 This addresses the threats T.Smart-Theft and T.Rugged-Theft. Supported by O.Maintain- Security and O.Physical-Access also an internal attacker triggers the security measures implemented by O.Security-Control. Therefore also the Threat T.Unauthorized-Staff is addressed.

8.4.4 O.Alarm-Response

64 During working hours the employees monitor the alarm system. The alarm system is connected to a control center that is manned 24 hours. During off-hours additional guard patrol supports the alarm system. O.Physical-Access requires certain time to overcome the different level of access control. The response time of the guard and the physical resistance match to provide an effective alarm response.

65 This addresses the threats T.Smart-Theft, T.Rugged-Theft and T.Unauthorised-Staff

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 33 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

8.4.5 O.Internal-Monitor

66 Regular security management meetings are implemented to monitor security incidences as well as changes or updates of security relevant systems and processes. This comprises of all security events, security relevant systems, CCTV and access control. Major changes of security systems and security procedures are reviewed in general management systems review meetings (2x per year). Upon introduction of a new process a formal review and release for mass production is made before being generally introduced.

67 The security relevant systems enforcing or supporting O.Physical-Access, O.Security-Control and O.Logical-Access are checked and maintained regularly by the suppliers. In addition the configuration is updated as required either by employees (for the access control system) of the supplier. Logging files are checked at least monthly for technical problems and specific maintenance requests.

68 This addresses T.Smart-Theft, T.Rugged-Theft, T.Computer-Net, T.Unauthorised-Staff, T.Attack-Transport and T.Staff-Collusion

8.4.6 O.Logical-Operation

69 All logical protection measures are maintained and updated as required, at least once a month. Critical items such as virus scanners are updated daily. The backup is sufficiently protected and is only accessible for the administration.

70 This addresses the threats T.Computer-Net and T.Unauthorised-Staff

8.4.7 O.Staff-Engagement

71 All employees are interviewed before hiring. They must sign an NDA and a code of conduct for the use of NXP equipment before they start working in the company. The formal training and qualification includes security relevant subjects and the principles of handling and storage of security products. The security objectives O.Physical-Access, O.Logical- Access and O.Config-Items support the engagement of the staff.

72 This addresses the threats T.Computer-Net, T.Staff-Collusion and T.Unauthorised-Staff

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 34 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

8.4.8 O.Control-Scrap

73 Scarp may exist in a number of forms on this site printed secure objects, test samples or redundant hardware/movable media. Hardware and samples scrap is returned to NXP head office for controlled secure destruction. Transport and actual destruction of security products is done under supervision of a qualified employee in collaboration with the destructor. Sensitive information and information storage media are collected internally in a safe location and destroyed in a supervised and documented process. All documentation destroyed on site is by means of a Level 5 security shredder.

74 Supported by O.Physical-Access and O.Staff-engagement this addresses the threats T.Unauthorised-Staff, T.Computer-Net, T.Smart-Theft, T.Rugged-Theft and T.Staff-Collusion

8.4.9 O.Config_Activities

75 All product configuration information is stored in the database on the NXP secure network. The information stored is covering process specifications, acceptance test instructions and specifications, and test programs. Products are identified by unique customer part IDs with are linked to the unique ID numbers of the associated configuration items.

76 This is addressing the threat T.Rugged-Theft, T.Computer-Net, T.Staff-Collusion, T.Unauthorised-Staff, T.Attack-Transport, T.Smart-Theft and the OSP P.Config-Activities

8.4.10 O.Network_Separation

77 The internal network is separated from the internet with a firewall. The internal network is further separated into subnetworks by internal firewalls. These firewalls allow only authorized information exchange between the internal subnetworks. Each user is logging into the system with his personalised user name and password. The objective is supported by O.Internal-Monitor based on the checks of the logging regarding security relevant events.

78 The individual accounts are addressing T.Computer-Net. All network configuration is stored in the database of the NXP secure network. Supported by O.Config-IT-env this addresses the threats T.Unauthorised-Staff and the OSP P.Config-Activity.

8.4.11 O.Maintain_Security

79 The security measures are maintained regularly to ensure correct operation. The logging of sensitive systems is checked regularly. This comprises the access control system to ensure that only authorised employees have access to sensitive areas as well as computer/network systems to ensure that they are configured as required to ensure the protection of the networks and computer systems

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|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 35 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

80 These security measures are necessary to prevent the threats T.Smart-Theft, T.Rugged-Theft, T.Computer-Net, T.Attack-Transport, T.Unauthorised-Staff and T.Staff-Collusion

8.4.12 O.LifeCycle_doc

81 The security of the site is maintained according to the sites security documentation covering all physical and logical measures to ensure the security of the site.

82 These security measures are necessary to prevent the threats T.Smart-Theft, T.Rugged-Theft, T.Computer-Net, T.Unauthorised-Staff, T.Attack-Transport and T.Staff-Collusion. Also addressing the OSP P.Lifecycle-Doc

| | | |
|---|---|-----------------------------------|
| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 36 of 37 |
| Doc. Identifier: NXPOMS-1719007347-4154 | | Old System Identifier: PV3-00187a |

9. References

9.1 Literature

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| NXP Semiconductors | Site Security Target Lite Global Logic Wroclaw | Published |
| Product Creation | | 07/25/2018 |
| BU Security and Connectivity | | Page 37 of 37 |
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9.2 List of Abbreviations

| | |
|-----|--------------------------------|
| CC | Common Criteria |
| EAL | Evaluation Assurance Level |
| IC | Integrated Circuit |
| IP | Intellectual Property |
| IT | Information Technology |
| OSP | Organizational Security Policy |
| PP | Protection Profile |
| SAR | Security Assurance Requirement |
| SST | Site Security Target |
| ST | Security Target |
| TOE | Target of Evaluation |

9.3 Revision History

| Revision | Description | Author | Approval - Date |
|----------|---------------------------|----------------|-----------------|
| 1.0 | First Draft | Gordon Caffrey | 10 Mar 2016 |
| 1.1 | New certification release | Gordon Caffrey | 25 Jul 2018 |

Approvers

| Sequence | Role | Name |
|------------|------------------|----------------|
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| Approval | Security Manager | Gordon Caffrey |