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Site Security Target Lite - NXP Bucharest

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Approvers

| Sequence | Role | Name |
|------------|------------------------------|--------------------|
| Acceptance | Security Manager | Antoinette Dickens |
| Approval | Head of Site Certification | Gordon Caffrey |
| Approval | Site Security Representative | Monique Franssen |

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1. Document Introduction

1.1 Reference

Title: Site Security Target Lite - NXP Bucharest

Version: 1.0

Date: 11/21/2019

Company: NXP Semiconductors

Name of site: NXP Semiconductors Romania | Campus 6, Bulevardul Iuliu Maniu 6L | 061103
București, Romania

EAL: SARs taken from EAL6

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2. SST Introduction

- 1 This document is based upon the Eurosmart Site Security Target Template [1] with adaptations such that it fits the site (i.e. datacenter, 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 CCC&S.

* Note that the site of this Site Security Target also belongs to NXP CCC&S.

2.1 SST Reference

- 2 Title Site Security Target Lite - NXP Bucharest
- 3 Version 1.0

2.2 Site Reference

- 4 The site is located at:

NXP Semiconductors Romania | Campus 6, Bulevardul Iuliu Maniu 6L | 061103
București, Romania

2.3 Site Description

- 5 The entire NXP Bucharest building specified in Section 2.2 is the physical boundary of the site.
- 6 The NXP Bucharest site supports activities of several organisations, but the only relevant area where activities take place is referred to as the Secure Room. All areas in scope are classified as **YELLOW** or **RED** areas. Activities of other organizations **are not in scope of this SST**.
- 7 The NXP Bucharest site is involved in IT Engineering and Support. The Secure Room provides 2nd and 3rd level technical support to NXP Business Units, such as NXP CCC&S.
- 8 The personnel in the Secure Room are **not** directly involved in designing, testing, producing, shipping etc. of NXP products. Therefore, there are **no assets** inside the site. However, the personnel have root level access to the electronic assets of the business units they manage and could therefore lead to threats of these assets. It is these threats that are the main subject of this Site Certification.
- 9 For smartcard products, their activities could therefore be related to any or all the six Phases of the Lifecycle Model in [7], depending on the roles that a managed Business Unit has in these Phases.

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3. Conformance Claim

10 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]

11 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 Requirements v2.2 April 2019 [6]

12 This SST is CC Part 3 conformant.

13 There are no extended components required for this SST for the NXP Bucharest site.

14 The evaluation of the site comprises the following assurance components:

- ALC_CMC.5,
- ALC_CMS.5,
- ALC_DVS.2,

15 The activities of the site are not directly related to designing, testing, producing, shipping etc. of secure products. Therefore, this site does not claim conformance to ALC_DEL, ALC_TAT and ALC_LCD.

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4. Security Problem Definition

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

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

4.1 Assets

Access and access rights to electronic files belonging to NXP Business Units. Some of these files contain assets that are relevant to secure products. In particular:

- Development data: The site can give access to electronic development data in relation to developed TOEs. Both the integrity and the confidentiality of these electronic documents must be protected.
- Cryptographic keys: The site can give access cryptographic keys used for NXP key usage. Both the integrity and the confidentiality of these electronic data must be protected.
- Production data: The site can give access to electronic production data in relation to developed TOEs. Both the integrity and the confidentiality of these electronic documents must be protected.
- Account with specific rights: The site uses specific accounts which can give access to NXP CCC&S assets described before. The confidentiality of these accounts must be protected.

4.2 Threats

T.Smart-Theft: An attacker tries to access the Secure Room to gain access to the NXP Business Unit network and thereby access to the assets on that network for manipulation or theft of assets. In this case, (1) development data (2) cryptographic keys (3) production data with the intention to violate confidentiality and possibly integrity.

T.Rugged-Theft: An attacker with specialized equipment for burglary, who may be paid to perform the attack, tries to access the Secure Room to manipulate or steal assets. In this case, (1) development data (2) cryptographic keys (3) production data with the intention to violate confidentiality and possibly integrity.

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 (2) cryptographic keys (3) production data with the intention to violate confidentiality and possibly integrity.

T.Unauthorised-Staff: Employees or subcontractors not authorized to get access to the Secure Room try to access assets on that network by violating (1) development data (2) cryptographic keys (3)

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production data with the intention to violate confidentiality and possibly integrity.

T.Staff-Collusion: An attacker tries to get access to assets by getting support from one Secure Room employee through extortion or bribery. In this case, electronic files with the intention to violate confidentiality and possibly integrity.

4.3 Organizational Security Policies

P.Config-Items: The configuration management system shall be able to uniquely identify configuration items. In this case the unique identification of items is solely the IT hardware used for these services

P.Config-Process: The processes provided by this site are controlled and documented. This describes the services and/or processes provided by a site.

4.4 Assumptions

A.Serv-Specification: The NXP Business Unit that is being managed must store data it wishes to keep secure on the Security-Relevant System in the Business Unit network.

A.Secure_Conn NXP must arrange an encrypted network connection from the Security-Relevant System (Secure Room) to its network. This includes provisioning of robust network encryption equipment to the Secure Room and key management for this equipment.

The site is only intended for IT Engineering & Generic Support and is not intended for TOE development. Therefore, the only configuration items are IT hardware, internal site security documents and procedures.

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5. Security Objectives

18 The Security Objectives are related to physical IT infrastructure and organizational security measures.

- 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 at least in restricted areas.
- O.Security-Control: Assigned personnel of the site operate the systems for access control, surveillance and respond to alarms which 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 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.Control-Scrap: The site will return any scrap to a designated NXP site for secure disposal. In this case the only possible scrap would be faulty hardware, but this is only handled by NXP or authorized NXP subcontractors.

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- O.Staff-Engagement: All employees who have access to assets are checked regarding security concerns and must 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.

- O.Config-Items: NXP has a configuration management system that assigns a unique internal identifier for all equipment installed in the Secure Room and their corresponding settings to each version of the internal procedures and guidance. This helps ensure P.Config_Items and P.Config_Process.

- O.Logical-Operation: The computer systems in the Secure Room enforce that every user authenticates using a password and has a unique user ID, including two-factor authentication.

- O.Exclusive-Access: The only way to access the Security-Relevant System from the NXP Business Unit network is through the encryption equipment provided by the NXP Business Unit¹ (and vice versa).

5.1 Security Objectives Rationale

- 19 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).

¹ See A.Secure_Conn

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| Threat and OSP | Security Objective(s) | Rationale |
|----------------|---|---|
| T.Smart-Theft | O.Physical-Access O.Control-Scrap O.Security-Control O.Alarm-Response O.Internal-Monitor O.Maintain-Security | <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 authorised 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>Together, these objectives will therefore counter T.Smart_Theft.</p> |
| T.Rugged-Theft | O.Physical-Access O.Control-Scrap O.Security-Control O.Alarm-Response O.Internal-Monitor O.Maintain-Security | <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 authorised 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>Together, these objectives will therefore counter T.Rugged_Theft.</p> |

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| Threat and OSP | Security Objective(s) | Rationale |
|----------------|---|---|
| T.Computer-Net | O.Exclusive-Access O.Logical-Operation O.Internal-Monitor O.Maintain-Security O.Control-Scrap O.Staff-Engagement O.Security-Control | <p>O.Exclusive-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.Exclusive-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.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 authorised party.</p> <p>O.Staff-Engagement ensures that all staff is aware of its responsibilities (signing NDAs and being trained).</p> <p>O.Security-Control ensures that an attacker will be detected when trying to reach the assets through the Secure Room.</p> <p>Together, these objectives will therefore counter T.Computer-Net.</p> |

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| Threat and OSP | Security Objective(s) | Rationale |
|----------------------|--|--|
| T.Unauthorised-Staff | O.Physical-Access O.Security-Control O.Alarm-Response O.Logical-Operation O.Internal-Monitor O.Maintain-Security O.Control-Scrap O.Staff-Engagement O.Config-Items | <p>O.Security_Control ensures that all unauthorized 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 unauthorized people cannot circumvent this (see the rationale for T.Smart-Theft for more details on this).</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.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> <p>O.Staff-Engagement ensures that all staff is aware of its responsibilities (signing NDAs, and being trained).</p> <p>O.Config-Items assigns unique numbers to the internal procedures. As the site processes no other configuration items.</p> <p>Together, these objectives will therefore counter T.Unauthorised-Staff.</p> |
| T.Staff-Collusion | O.Physical-Access O.Internal-Monitor O.Maintain-Security O.Staff-Engagement O.Control-Scrap | <p>O.Physical-Access, ensures that the unauthorized people cannot circumvent this (see the rationale for T.Smart-Theft for more details on this).</p> <p>O.Staff-Engagement ensures that all staff is aware of its responsibilities (signing NDAs and being trained).</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> <p>Together, these objectives will therefore counter T.Staff-Collusion.</p> |

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| Threat and OSP | Security Objective(s) | Rationale |
|------------------|-------------------------------------|--|
| P.Config-Items | O.Config-Items O.Physical-Access | <p>The Security Objective directly enforces the OSP.</p> <p>O.Physical-Access ensures that unauthorized people cannot circumvent this (see the rationale for T.Smart-Theft for more details on this).</p> <p>O.Config-Items assigns unique numbers to the internal procedures. As the site processes no other configuration items, this is sufficient to meet P.Config-Items.</p> |
| P.Config-Process | O.Config-Items O.Physical-Access | <p>The Security Objective directly enforces the OSP.</p> <p>O.Physical-Access ensures that unauthorized people cannot circumvent this (see the rationale for T.Smart-Theft for more details on this).</p> <p>The services and processes provided by the site are described in the internal site procedures and guidance. O.Config-Items as are kept under CM (see the rationale above), this is sufficient to meet P.Config-Process.</p> |

Table 1 Threats and OSP - Security Objectives Rationale

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6. Extended Assurance Components Definition

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

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7. Security Assurance Requirements

- 21 Sites using this Site Security Target requires a TOE evaluation up to evaluation assurance level EAL6, potentially claiming conformance with the Eurosmart Protection Profile [7].
- 22 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)
- 23 Because hierarchically higher components are used in this SST the Security Assurance Requirements listed above fulfil the requirements of:
- [6] 'Minimum Site Security Requirements'
 - [7] Eurosmart Protection Profile.

7.1 Application Notes and Refinements

- 24 The description of the site certification process 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)

- 25 Refer to subsection 'Application Notes for Site Certification' [5] in 5.1 'Application Notes for ALC_CMC'.
- 26 As the scope of the configuration management system is rather limited (see section 7.1.2), the configuration management system only needs to keep a few documents under CM.
- 27 Items such as wafers, dice, products, etc. are not in scope.
- 28 Items such as source code and design information are considered electronic files are therefore in scope. The CM system is therefore relatively simple.
- 29 Due to the nature of the site, the refinements on ALC_CMC from [7] are not necessary, however the configuration management system of the Data Centre controlling activities will be in scope.

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7.1.2 CM Scope (ALC_CMS.5)

- 30 Refer to subsection 'Application Notes for Site Certification' in [5] at 5.2 'Application Notes for ALC_CMS'.
- 31 The scope of the configuration management for a site certification process is limited to the documentation relevant for the SAR for the claimed life-cycle SAR and the configuration items handled at the site.
- 32 As this site is not directly involved with designing, testing, producing, storing or delivering the TOE, the only relevant configuration items are:
- This Site Security Target for this site
 - The CM documentation for this site
 - The Security documentation for this site
- 33 Due to the nature of the site, the refinements on ALC_CMS from [7] are not applicable.

7.1.3 Development Security (ALC_DVS.2)

- 34 Refer to subsection 'Application Notes for Site Certification' in 5.4 'Application Notes for ALC_DVS'.
- 35 As ALC_DVS is relatively broad, and the security objectives are more specific, the following refinements are applied to ensure that ALC_DVS.2 will meet the objectives:
- 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.
 - Assigned personnel of the site operate the systems for access control and surveillance and respond to alarms. Technical security measures like video control, motion sensors and similar sensors support the enforcement of the access control. These personnel are also responsible for registering and ensuring escort of visitors, unauthorised NXP employees, contractors and suppliers.
 - 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 reaction time of the employees or guards is short enough to prevent a successful attack.

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- 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.
- 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.
- The only way to access the Business Unit network is through management workstations connected to the encryption equipment provided by the Business Unit². There is no internal network access to the encryption equipment.
- The computer systems in the Secure Room that are connected to the encryption equipment are kept up-to-date (software updates, security patches, virus protection, spyware protection).
- The Secure Room has measures in place to destruct sensitive documentation, erase electronic media and destroy sensitive configuration items so that they do not support an attacker.
- All employees who have access to assets are checked regarding security concerns and must sign a non-disclosure agreement. Furthermore, all employees are trained and qualified for their job.

7.2 Security Requirements Rationale

7.2.1 Security Requirements Rationale - Dependencies

36 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
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² See A.Secure_Conn.

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| Assurance Family | Dependencies | Rationale |
|------------------|-------------------------------------|--|
| ALC_CMC.5 | ALC_CMS.1 ALC_DVS.2 ALC_LCD.1 | All included except ALC_LCD.1. ALC_LCD.1 is not included as it is related to development where this site is not involved in development. |
| ALC_CMS.5 | No dependencies | N/a, no dependencies |
| ALC_DVS.2 | No dependencies | N/a, no dependencies |

As there is no processing on this site the Configuration Management of the TOE is controlled on other NXP sites.

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 appropriate and consistent labeling. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| ALC_CMC.5.2C: The CM documentation shall describe the method used to uniquely identify the configuration items. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| 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.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| ALC_CMC.5.4C: The CM system shall uniquely identify all configuration items. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| ALC_CMC.5.5C: The CM system shall provide automated measures such that only | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore |

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| SAR | Security Objective | Rationale |
|--|--------------------|--|
| authorized changes are made to the configuration items. | | ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| ALC_CMC.5.6C: The CM system shall support the production of the product by automated means. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| ALC_CMC.5.7C: The CM system shall ensure that the person responsible for accepting a configuration item into CM is not the person who developed it. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| ALC_CMC.5.8C: The CM system shall clearly identify the configuration items that comprise the TSF. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| 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_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| 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_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| 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_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |

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| SAR | Security Objective | Rationale |
|--|--------------------|--|
| ALC_CMC.5.12C: The CM documentation shall include a CM plan. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| ALC_CMC.5.13C: The CM plan shall describe how the CM system is used for the development of the TOE. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| 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.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| ALC_CMC.5.15C: The evidence shall demonstrate that all configuration items are being maintained under the CM system. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |
| ALC_CMC.5.16C: The evidence shall demonstrate that all configuration items have been and are being maintained under the CM system. | O.Config_items | O.Config-Items also states that NXP uses a configuration management system. This is included in ALC_CMC.5. Therefore ALC_CMC.5 and ALC_CMS.5 are suitable to meet O.Config-Items |

Table 2 Rationale for ALC_CMC.5

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| 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 documentation shall include a CM plan. | O.Config_items | O.Config-Items also states that NXP has the internal procedures and guidance under CM. This is a subset of the CM list specified by ALC_CMS.5 (which also includes the SST). |
| ALC_CMS.5.2C: The configuration list shall uniquely identify the configuration items. | O.Config_items | O.Config-Items also states that NXP has the internal procedures and guidance under CM. This is a subset of the CM list specified by ALC_CMS.5 (which also includes the SST). |
| ALC_CMS.5.3C: For each configuration item, the configuration list shall indicate the developer/subcontractor of the item. | O.Config_items | O.Config-Items also states that NXP has the internal procedures and guidance under CM. This is a subset of the CM list specified by ALC_CMS.5 (which also includes the SST). |

Table 3 Rationale for ALC_CMS.5

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| 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.Physical-Access O.Security-Control O.Alarm-Response O.Internal-Monitor O.Maintain-Security O.Exclusive-Access O.Control-Scrap O.Staff-Engagement O.Logical-Operation | The security documentation (O.Physical-Access, O.Security-Control, O.Logical-Operation, O.Alarm-Response), procedural (O.Internal-Monitor, O.Maintain-Security, O.Control-Scrap), personnel (O.Staff-Engagement) and technical (O.Exclusive-Access) enforce the security on site. |
| 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.Physical-Access O.Security-Control O.Alarm-Response O.Internal-Monitor O.Maintain-Security O.Exclusive-Access O.Control-Scrap O.Staff-Engagement O.Logical-Operation | The security documentation (O.Physical-Access, O.Security-Control, O.Logical-Operation, O.Alarm-Response), procedural (O.Internal-Monitor, O.Maintain-Security, O.Control-Scrap), personnel (O.Staff-Engagement) and technical (O.Exclusive-Access) enforce the security on site |
| 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.Physical-Access O.Security-Control O.Alarm-Response O.Internal-Monitor O.Maintain-Security O.Exclusive-Access O.Control-Scrap O.Staff-Engagement O.Logical-Operation | The security documentation (O.Physical-Access, O.Security-Control, O.Logical-Operation, O.Alarm-Response), procedural (O.Internal-Monitor, O.Maintain-Security, O.Control-Scrap), personnel (O.Staff-Engagement) and technical (O.Exclusive-Access) enforce the security on site |

Table 4 Rationale for ALC_DVS.2

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8. Site Summary Specification

8.1 Preconditions required by the Site

37 There are two preconditions that must be fulfilled in order to make use of the site:

- The Business Unit that is being managed must provide appropriate information and means in order to allow the Secure Room to provide 2nd and 3rd level IT support to the Business Unit.
- The NXP Business Unit must arrange an encrypted network connection from the Secure Room to its network. This includes the provisioning of robust network encryption equipment to the Secure Room and key management for this equipment.

8.2 Services of the Site

S1: The Secure Room provides 2nd and 3rd line IT support to NXP Business Units, such as NXP Business Unit Security and Connectivity. This consists of activities such as:

- Adding file storage space to existing NXP accounts
- Remote installation of operating systems
- General IT setup and maintenance
- Remote installation of software upgrades and patches
- User account creation, user account maintenance and revocation
- Implementing approved requests from the NXP Change Control Authority Board
- Resolving technical issues and responding to incidents

S2: The site provides physical protection of the IT infrastructure.

8.2.1 Aspects of SARs

8.2.1.1 ALC_CMC.5 and ALC_CMS.5

38 As defined in [5] para 85-86: If the site does not provide configuration items to outside the site, nor accepts configuration items from outside the site, no information is to be provided in relation to TOEs.

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8.2.1.2 ALC_DVS.2

39 All information provided to and from the Security-Relevant System towards any other NXP sites will be encrypted and provided by the NXP Business Unit requiring services from the site (see A.Secure_Conn for details). This is described in detail in DVS documentation. All other information is internal to the site and does not need to be provided as defined (para 87, [5]).

- 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.
- Assigned personnel of the site operate the systems for access control and surveillance and respond to alarms. Technical security measures like video control, motion sensors and similar kind of sensors support the enforcement of the access control. This personnel is also responsible for registering and ensuring escort of visitors, unauthorised NXP employees, contractors and suppliers.
- 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 reaction time of the employees or guards is short enough to prevent a successful attack.
- 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.
- 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.
- The Secure Room has measures in place to erase electronic media so that they do not support an attacker.
- All employees who have access to assets are checked regarding security concerns and must sign a non-disclosure agreement. Furthermore, all employees are trained and qualified for their job.

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8.3 Security Assurance Rationale

8.3.1 CM capabilities (ALC_CMC.5)

40 For full detail and evidence please view Section 7.2.2

8.3.2 CM scope (ALC_CMS.5)

41 For full detail and evidence please view Section 7.2.2

8.3.3 Development Security (ALC_DVS.2)

42 For full detail and evidence please view Section 7.2.2

8.4 Objectives Rationale

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

8.4.1 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 and 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.Staff-Collusion and T.Unauthorized-Staff is addressed, and also addresses the OSP P.Config_Items and P.Config_Process.

8.4.2 O.Security-Control

44 During off hours the guard(s) 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.

45 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 and T.Computer_Net are addressed.

8.4.3 O.Alarm-Response

46 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-

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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.

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

8.4.4 O.Internal-Monitor

48 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.

49 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. Log files are checked at least monthly for technical problems and specific maintenance requests.

- 50 This addresses T.Smart-Theft, T.Rugged-Theft, T.Computer-Net, T.Unauthorised-Staff and T.Staff-Collusion.

8.4.5 O.Staff-Engagement

51 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 include 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.

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

8.4.6 O.Control-Scrap

53 Scrap may exist in several forms on this site including redundant hardware/movable media. Hardware scrap is returned to NXP head office for controlled secure destruction. Transport and actual destruction of security products is performed 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 by NXP.

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54 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.

8.4.7 O.Maintain_Security

55 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.

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

8.4.8 O.Exclusive-Access

57 Access to the Secure Room, from and to the outside uses encrypted links provided by the BUs. This addresses the threat T.Computer-Net.

8.4.9 O.Logical-Operation

58 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.

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

8.4.10 O.Config_Items

60 All product configuration information is stored in the database on the NXP secure network. The information stored is encrypted data.

61 This is addressing the threat T.Unauthorised-Staff, and the OSP P.Config-Items and P.Config_Process.

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9.1 Literature

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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 |