

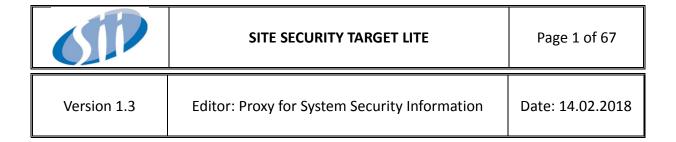
# SITE SECURITY TARGET LITE Olivia Prime

# Sii Sp. z o. o. / Branch in Gdańsk Grunwaldzka 472E 80 – 309 Gdańsk

The certification ID:

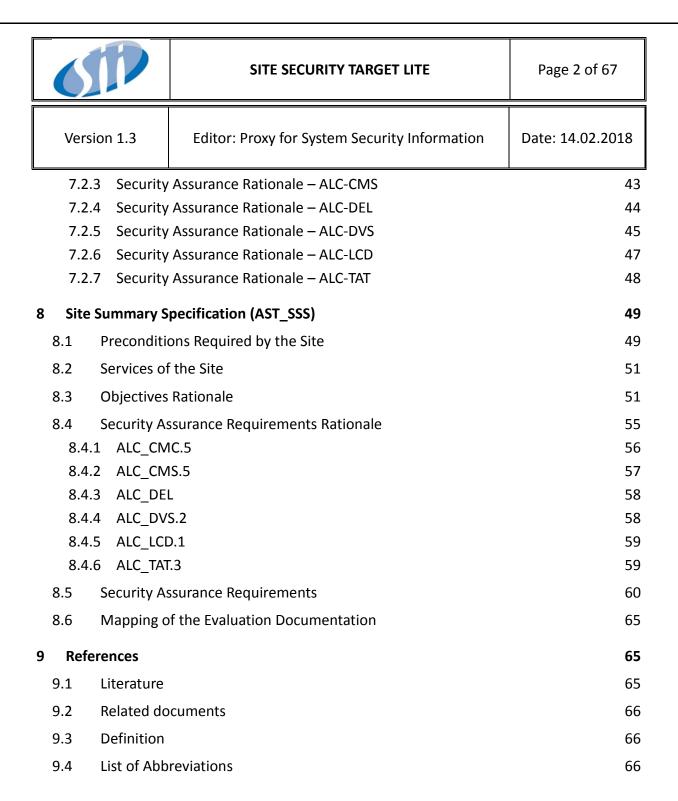
Date approved:
Managing Director

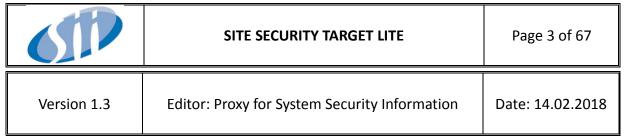
Gdańsk 2018



# **Table of Contents**

D	ocumei	nt Information	3
	1.1	Reference	3
	1.2	Version history	3
2	SST	ntroduction (AST_INT)	3
	2.1	Site Description	4
3	Conf	ormance Claims (AST_CCL)	7
4	Secu	rity Problem Definition (AST_SPD)	8
	4.1	Assets	9
	4.2	Threats	10
	4.3	Organisational Security Policies	12
	4.4	Assumptions	13
5	Secu	rity Objectives (AST_OBJ)	14
	5.1	Security Objectives Rationale	16
	5.1.	1 Mapping of Security Objectives	16
6	Exte	nded Components Definition (AST_ECD)	27
7	Secu	rity Assurance Requirements (AST_REQ)	27
	7.1	Application Notes and Refinements	27
		Overview and refinements regarding CM (Configuration Management) abilities (ALC CMC)	27
	-	2 Overview and refinements regarding CM scope (ALC_CMS)	29
	7.1.	3 Overview and refinements regarding Delivery procedure (ALC_DEL)	29
	7.1.	4 Overview and refinements regarding Development Security (ALC_DVS)	29
	7.1.	Overview and refinements regarding Life-cycle definition (ALC_LCD)	30
	7.1.	Overview and refinements regarding Tools and Techniques definition (ALC_ 31	TAT)
	7.2	Security Assurance Rationale	32
	7.2.	1 Security Assurance Rationale – Dependencies	32
	7.2.	2 Security Assurance Rationale – ALC-CMC	32





#### **Document Information**

#### 1.1 Reference

Title: Site Security Target Lite Olivia Prime for Sii Sp. z o. o.

**Version:** Version 1.3

Date: 14.02.2019

Company: Sii Sp. z o.o.

Name of the site: Olivia Prime Sii Sp. z o.o.

**Product type: Security IC** 

EAL-Level: The site allows the development of TOEs with an EAL level up to EAL 6

#### 1.2 Version history

VERSION	DATE	COMMENT/EDITOR/CHANGES
1.0	30.06.2017	Initial version
1.1	10.07.2017	Added LITE to title on first page.
1.2	24.10.2017	Update for Oliva Star building
1.3	14.02.2019	Update for Oliva Prime building

This document belongs to Sii Sp. z o.o. and may not be used in any form without the owner's permission.

# 2 SST Introduction (AST\_INT)

This chapter is divided into the sections "Identification of the Site" and "Site description".

This Site Security Target refers to the site Building Sii Sp. z o.o./Branch in Gdańsk (Olivia Prime, 10<sup>th</sup> floor).

The site can be a part of the production flow of the Product Type and is a subject of evaluation.

Identification of the SiteThe site Building Sii Sp. z o. o./Branch in Gdańsk is located at:

One location: Olivia Prime, 10<sup>th</sup> floor

Street: Grunwaldzka 472E

City: 80-309 Gdańsk

Site Security Target Sii Sp. z o. o.

6117	SITE SECURITY TARGET LITE	Page 4 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

**Country: Poland** 

Software development and validation will take place in dedicated rooms **10.01.17**, **10.01.18**, **10.01.19**, **10.01.20**, **10.01.21**, **10.01.22**, **10.01.23** and dedicated server room **10.01.24** (properly prepared regarding security measures). These rooms are located on the 10<sup>th</sup> floor of the Olivia Prime (office building).

**Appendix**: Structural outline – Olivia Prime, 10<sup>th</sup> floor (restricted document – available on site during evaluation process)

#### 2.1 Site Description

Sii Sp. z o.o./Branch in Gdańsk is located in Olivia Business Centre – an office buildings complex in Gdańsk, Poland. Sii's rooms, labs and offices are situated on the 10<sup>th</sup> floor of Olivia Prime. The whole storey on the 10<sup>th</sup> floor of Olivia Prime forms a consistent working area and is occupied exclusively by Sii.

The following areas of the site specified in Chapter 0 are in the scope of the SST:

- Olivia Prime: location of Development and Testing Centre,

The building Olivia Prime, 10<sup>th</sup> floor is exclusively used by Sii but the area where the relevant activities (Development and Testing Centre) take place is limited to the 10<sup>th</sup> floor in building **Olivia Prime**.

All the physical security services (i.e. Access Control System, Alarm System and CCTV system) and procedures concerning physical security are provided by SII.

However, main parts of the IT security depend on NXP equipment (tools, CM system, switches, routers) and procedures. Therefore the scope of the certification is limited to the use of the site for NXP Semiconductors projects.

NOTE: Each time the term "client" or "customer" is used is this document it point on NXP Semiconductors.

The following services and/or processes provided by Sii are in the scope of the site evaluation process:

Development of IC dedicated software (Software products) and embedded Software for smart card products including module tests, integration tests and system tests. Furthermore validation of functionality on silicon is part of the activities.

6117	SITE SECURITY TARGET LITE	Page 5 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

# **LIFE CYCLE:**

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

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

whereas the site under evaluation supports only the life cycle phase

Development.

The development life cycle phase consists of two main parts:

- Software development (phase 1)
- Software Validation/verification (phase 1)

#### **Software Development**

The goal of the Software Development is to generate all source files (containing source code) for the product.

The entry documents for Implementation are:

- Software Detailed Design (SDD),
- Software Unit Test Specification (SUTS).

The products of Implementation are:

- source code for Modules/Units,
- Draft User Documentation.

The main activities which are undertaken during Implementation are:

- 1. The source code is generated based on the design.
- 2. Code is crosschecked.

# **Verification and Validation**

The goal of the **Verification and Validation** is to verify the integrated software against software designs and customer requirements specifications.

Site Security Target Sii Sp. z o. o.

6117	SITE SECURITY TARGET LITE	Page 6 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

The entry documents for Verification and Validation are:

- crosschecked Module/Unit source code,
- Software Test Specification (STS) and Software Integration Test Specification (SITS),
- Customer Requirements Specifications (CRS) or Software Requirement Specifications (SRS).

The products of Verification and Validation are:

- Software product (e.g. hex, bin file) with all validated Modules/Units,
- Code for Test Cases,
- Updated User Documentation.

The main activities which are undertaken during Verification and Validation are:

#### **Verification activities:**

- 1. The test code is generated based on the test specification.
- 2. The software tests validate the individual Module/Unit according to STS.
- 3. All Modules/Units are integrated. The integrated code is tested according to SITS in the simulated environment.
- 4. All bugs discovered during the module and integrated software testing are addressed and solved within the team.
- 5. Software User Documentation is verified vis-à-vis the software code and accordingly updated.

#### Validation activities:

- 1. Customer Acceptance Tests (CAT) are performed for products which have acceptance tests done by or provided by the Customer. For other SW products, the integration tests are executed once again on the integrated SW on IC.
- 2. Any bugs discovered during SW validation will be first recorded and analyzed, then solved or escalated by the project team. Consultation with PM and/or Customer is recommended if the problems have heavy impact on the project goals.
- 3. Integration tests will be repeated until no more bugs are identified. In situations where the team has to release software that has known bugs, the bug details need to be mentioned in the release notes.

6117	SITE SECURITY TARGET LITE	Page 7 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

4. Software User Documentation is validated vis-à-vis the SRS or CRS. Any non-conformances are removed from the software User Documentation and the deliverable code.

#### **Security**

The Development and Testing Centre is a security area with a restricted access. Only authorised persons are allowed to enter this area.

The infrastructure is separated between the rooms with physical boundaries in a form of walls. All windows in project rooms are protected with sensors generating an alarm in case of any irregularities. Corridors and lifts are monitored by cameras. Smoke and fire detection alarm system is provided and connected to Gdańsk Firefighting monitoring centre. The facility has separate and independent power supplies UPS and power Generator.

The security area is secured by mantraps which can only be entered after successful authentication by card (company badge, visitor badge). A company badge or visitor badge has to be presented for access to the campus which hosts the Olivia Prime. Only authorised persons are allowed to enter.

For visitors getting access to the 14<sup>th</sup> floor of Olivia Prime a guest badge has to be requested to the ground floor Welcome Desk (the visitor ID is checked and put into Entry/Exit book). Any visitor must sign confidentiality agreement and get escort of Sii employee.

Every employee of Development and Testing Centre must enter through Olivia Prime. Next step is a turnstile at Welcome Desk (accessible by badge) and elevator in which badge is requested to get access to the 10<sup>th</sup> floor. There is no possibility of getting to other floors. To enter every project room a badge is requested again. Video control of all project rooms enables recording and checking events happening during day and night. Recordings are kept on server in a secured Data Archive Room administered by an authorised Sii employee. All recordings are stored for 90 days in an electronic form.

The security of the building is controlled by a Guard Services operated 24 hours and 7 days a week. Security guards are hired by Building Administrator and they have no access to Sii, if they have to raise an alert, the emergency Sii contact is called.

The cleaning company is operating during standard working hours, they access only under supervision.

# 3 Conformance Claims (AST\_CCL)

The evaluation is based on Common Criteria Version 3.1, Revision 5.

6117	SITE SECURITY TARGET LITE	Page 8 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

- 1. Common Criteria for Information Technology Security Evaluation, Part 1: Introduction and General Model; Version 3.1, Revision 5
- 2. Common Criteria for Information Technology Security Evaluation, Part 3: **Security Assurance Requirements**; Version 3.1, Revision 5

For the evaluation the following methodology will be used:

- Common Methodology for Information Technology Security Evaluation: Evaluation Methodology; Version 3.1, Revision 5
- 2. JIL Minimum Site Security Requirements
- 3. Supporting Document Guidance Site Certification, Version 1.0, Revision 1, CCDB-2007-11-001, October 2007
- 4. Guidance for Site Certification version 1.1, BSI

The assurance components chosen for the Site Security Target are taken from the definition of the EAL 6, as this is the level usually applied in Security IC (for Smart Card Code) development. Both the Sii Gdańsk site and the SST are conformant to the Common Criteria Part 3.

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 high attack potential are assumed.

The evaluation of the site comprises the following assurance components:

- 1. ALC\_CMC.5
- 2. ALC\_CMS.5
- 3. ALC\_DVS.2
- 4. ALC LCD.1
- 5. ALC TAT.3

#### 4 Security Problem Definition (AST\_SPD)

The Security Problem Definition comprises security problems derived from threats against the assets handled by the site and security problems derived from the configuration management requirements. The configuration management covers the integrity the security management of the site.

Site Security Target Sii Sp. z o. o.

6117	SITE SECURITY TARGET LITE	Page 9 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

The Security Problem Definition comprises two major so called security problems. The first set of security problems comprises **all kind of attacks regarding theft** (e.g. samples) **or disclosure** (e.g. design data) or manipulation of assets. These security problems are described in terms of threats.

The second set of security problems comprises the requirements for the configuration management (e.g. controlled modification) and the control of security measures. These security problems are described in terms of Organisational Security Policies (OSP).

#### 4.1 Assets

The following section describes the assets handled at the site.

The site has internal documentation and data that is relevant to maintain the confidentiality and integrity of an intended TOE. This comprises site security concepts and the associated security measures as well as key and cryptographic tools for the encrypted exchange of data. These items are not explicitly listed in the list of assets below.

The integrity of any machine or tool used for software development, and for software testing is not considered an asset. Appropriate measures are defined for the site to ensure this important condition. These items consist of commercial available software which are programmed and customized by client.

# Security Embedded Software Development / IC dedicated software development:

- Software specifications, (Software Detailed Design (SDD) and Software Unit Test Specification (SUTS)),
- Source code/Object code in any form,
- Pre-personalization data,
- Test profiles and test results,
- FPGAs containing netlists, (SmartCard Emulator),
- Un-fused secure element samples, (chips, cards),
- Physical prototype samples, (chips, cards),
- Development boards,
- Documentation related to the design of the logical objects, (Reviewed Software Detailed Design (SDD) document and Software Unit Test Specification (SUTS)),

6117	SITE SECURITY TARGET LITE	Page 10 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

 Documentation related to the testing of the security products. (Software Unit Test Specification (SUTS)) Software Integration Test Specification (SITS/STS), Customer Requirement Specifications (CRS) or Software Requirement Specifications (SRS)).

Described assets due to their specification are divided into groups:

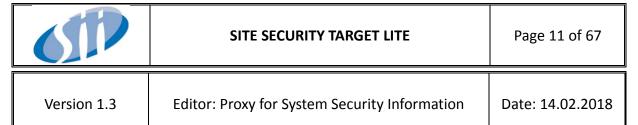
- 1. Development data: The site has access to (and optionally copies thereof) electronic development data (specifications, guidance documentation, source code, etc.) in relation to developed TOEs. Both the integrity and the confidentiality of these electronic documents must be protected.
- 2. Development 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.
- 3. Physical security objects: The site has physical security objects (samples, emulators, printed documents, etc.) in relation to developed TOEs. Both the integrity and the confidentiality of these must be protected.

#### 4.2 Threats

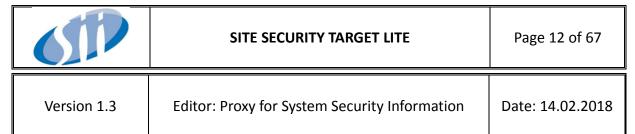
The threats identified for the site imply the necessity of defining assets which are endangered by those threats, those assets are described in 4.1 <u>Assets</u>.

The following threats are considered:

**T. Smart-Theft:** An attacker tries to access sensitive areas of the site for manipulation or theft of all endangered assets 1 Development data to violate confidentiality and integrity, 2 Development tools in this case lab machines and 3 Physical security object such as samples and hardware emulators. 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. In addition the attacker may be able to use specific working clothes like cleaning service or technical maintenance service to camouflage the intention.



- **T. Rugged-Theft:** An experienced thief with specialised equipment for burglary, who may by paid to perform the attack tries to access sensitive areas and manipulate or steal sensitive assets 1 Development data to violate confidentiality and integrity, 2 Development tools in this case lab machines and 3 Physical security object such as samples and hardware emulators.
- **T. Computer-Net:** A hacker with substantial expertise, standard equipment, who may be paid to attempt to remotely access sensitive network segments to get 1 development data such as source code and documentation, or modify the 2 development tools such as IT infrastructure to violate the production process at the site.
- **T. Unauthorized-Staff:** Employees or subcontractors not authorized to get access to products or systems used for production get access to 3 physical security objects especially samples and emulators or affect 2 development tools such as production systems or configuration systems or 1 development data so that the confidentiality and/or the integrity of the product is violated. This can apply to any production step and any asset of the final product as well as to the final product or its configuration.
- **T. Staff-Collusion:** An attacker tries to get access to material processed at the time in order to get access to 1 development data so that the confidentiality and/or the integrity of the product will be violated or to get access to 3 physical security objects so that the confidentiality of the product will be violated. The attacker tries to get support from one employee through an attempted extortion or an attempt at bribery.



**T. Attack-Transport:** An attacker might try to get 3 physical security objects like specifications printouts or products during the internal shipment and/or the external delivery. The target is to retrieve from 3 physical security objects a 1 development data to compromise confidential information or violate the integrity of the products during the stated internal shipment and/or the external delivery process to allow a modification, cloning or the retrieval of confidential information after further production steps. Confidential information comprises design data, customer and/or consumer data like code and data (including personalization data and/or keys) stored in the ROM and/or EEPROM or classified product documentation.

The threats identified for the site imply the necessity of defining objectives which are intended to minimise the following risks:

- 1. physical loss
- 2. intellectual loss
- 3. loss of reputation

Any physical or intellectual loss may lead to project realisation disturbance or may even cause a project to be discontinued.

Loss of reputation may cause the site to stop being considered trustworthy by the current and potential clients.

# 4.3 Organisational Security Policies

The following policies are introduced by the requirements of the assurance components of ALC for the assurance **level EAL 6**. The chosen policies shall support the understanding of the production flow and the security measures of the site. In addition, they shall allow an appropriate **mapping to the Security Assurance Requirements (SAR)**.

The documentation of the site under evaluation is under configuration management. This comprises all procedures regarding the evaluated production flow and the security measures that are in the scope of the evaluation.

The following policies are applicable:

**P.Config-Items:** The configuration management system (provided by the client) shall be able to uniquely identify configuration items. This includes the unique identification of items that are created, generated, developed or used at a site as well as the received and transferred and/or provided items.

6117	SITE SECURITY TARGET LITE	Page 13 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

**P. Config-Control:** The procedures for setting up the development process for a new product as well as the procedure that allows changes of the initial setup for a product shall only be applied by authorised personnel. Automated systems shall support the configuration management and ensure access control or interactive acceptance measures for set up and changes. The procedure for the initial set up of a production process ensures that sufficient information is delivered by the client.

**P.Config-Process:** The services and/or processes provided by a site are controlled in the configuration management plan. This comprises tools used for the production of the software, the management of flaws and optimisations of the process flow as well as the documentation that describes the services and/or processes provided by the site.

**P.Reception-Control**: The inspection of incoming items done at the site ensures that the received configuration items comply with the properties stated by the client. Furthermore, it is verified that the software can be identified and a released development process is defined for the software. If applicable this aspect includes the check that all required information and data is available to process the items.

- **P.** Organise-Product: The development process is applied as specified by the client. If the data includes sensitive items like keys relevant for the life-cycle or configuration data that affect the security appropriate measures must be in place. This includes the requirement that the knowledge of sensitive keys shall be split to at least two different persons. Furthermore, technical measures like crypto-boxes, separation of network, split access permission and secure storage shall be implemented for this kind of data.
- **P. Product-Transport:** Technical and organizational measures shall ensure the correct labelling of the product. A controlled internal shipment and/or the external delivery shall be applied. The transport supports traceability up to the acceptor. If applicable or required this policy shall include measures for packing if required to protect the product during transport.

**P.Transfer-Data:** Any data in electronic form (e.g. product specifications, test programs, test program specifications, release information etc.) that is classified as sensitive or higher security level by the client is encrypted to ensure confidentiality of the data. In addition measures are used to control the integrity of the data after the transfer.

#### 4.4 Assumptions

Each site operating in a production flow must rely on preconditions provided by the previous site. Each site has to rely on the information received by the previous site/client. This is reflected by the assumptions that are defined for the interface. The following assumptions are applicable:

6117	SITE SECURITY TARGET LITE	Page 14 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

- **A. Prod-Specification:** The client must provide appropriate requirements specifications, definitions, assembly guidance, test requirements, test limits in order to ensure an appropriate development or production process. The provided information includes the classification of the documents and product.
- **A. Services-Ensurance:** The client provides CM system used for product (software) development, as well as configures, and monitors internetwork devices (Routers, switches, firewalls and other VPN components) and establishes encrypted, secure connectivity (HW VPN) between Sii and client's premises. The client also provides, configures, and monitors laptops for secure software development.
- **A. Init-Data:** The scripts for the configuration and initialisation / pre-personalisation process are provided by the client. The client verifies the configuration and/or initialisation / pre-personalisation process during the product introduction and the release process of the site.
- **A. Process-Specification:** The development process is defined by the client who is the process owner. The Developers team working on the evaluated site is responsible for realization of a part of this process only.
- **A. Item-Identification:** Each configuration item received by the site is appropriately labelled to ensure the identification of the configuration item.
- **A.** Internal-Shipment: The recipient (client) of the product is identified by the address of the client site. The address of the client is part of the product setup.

#### 5 Security Objectives (AST\_OBJ)

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

- **O. Physical-Access:** The combination physical partitioning between the different access control levels together with technical and organizational 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 unauthorized people.
- **O. Security-Control:** Assigned personnel of the site operate the systems for access control and surveillance and respond to alarm. Technical security measures like video control, motion sensors and similar kind of sensors support the enforcement of the access control. This personnel are also responsible for registering and ensuring escort of visitors, unauthorized Sii employees, contractors and suppliers.

6117	SITE SECURITY TARGET LITE	Page 15 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

- **O. Alarm-Response:** The technical and organizational security measures ensure that an alarm is generated before an unauthorized person gets access to any asset. After the alarm is triggered the unauthorized person still has to overcome further security measures. The reaction time of the employee 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 audits 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 authorized 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. Logical-Access:** The site enforces a logical separation between the internal network and the internet by a firewall. The firewall ensures that only defined services and defined connections are accepted. Furthermore, internal network is separated into a production network and an office network. Additional specific networks for production and configuration are physically separated from any internal network to enforce access control. Access to the production network and related system is restricted to authorised employee that work in the production systems. Every user of on IT system has its own user account and password. An authentication using user account and password is enforced by all computer systems.
- **O. Logical-Operation:** All network segments and the computer systems are kept up-to-date (software, updates, security patches, virus protection, spyware protection). The back-up of sensitive data and security relevant logs is applied according to the classification of the stored data.
- **O. Config-Items:** The site uses a configuration management system (provided by the client) that assigns a unique internal identification to each product to uniquely identify configuration items and allow an assignment to the client. Also the internal procedures and guidance are covered by the configuration management.
- **O.** Config-Control: The site applies a release procedure for the setup of the production process for each new product. In addition, the site has a process to classify and introduce changes for services and /or processes of released products. Minor changes are handled by the site, major changes must be acknowledged by the client. A designated team is

6117	SITE SECURITY TARGET LITE	Page 16 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

responsible for the release of new products and for the classification and release of changes. This team comprises specialists for all aspects of the services and/or processes. The services and/or processes can be changed by authorised personnel only. Automated systems support configuration management and production control.

- **O. Organise-Product:** For the development process it is ensured that the specified process is applied. The data integrity is controlled. Keys and other sensitive data can only be constructed by at least two employees. The operation is applied in crypto-boxes or similar devices. After the release process changes are only applied based on the request of the client. The update is done according to a controlled process.
- **O. Staff-Engagement:** All employees who have access to sensitive configuration items and who can move parts of the product out of the defined production flow are checked regarding security concerns and have to sign a non-disclosure agreement. Furthermore, all employees are trained and qualified for their job.
- **O. Internal-Shipment:** The recipient of a physical configuration item is identified by the assigned client address. The internal shipment procedure is applied to the configuration item. The address for shipment can only be changed by a controlled process. The packaging is part of the defined process and applied as agreed with the client. The forwarder supports the tracing of configuration items during internal shipment. For every sensitive configuration item, the protection measures against manipulation are defined.
- **O. Transfer-Data:** Sensitive electronic configuration items (data or documents in electronic form) are protected witch cryptographic to ensure confidentiality and integrity. The associated keys must be assigned to individuals to ensure that only authorized employees are able to extract the sensitive electronic configuration item. The keys are exchanged based on secure measures and they are sufficiently protected.

# **5.1 Security Objectives Rationale**

The SST includes a Security Objectives Rationale with two parts. The first part includes a tracing which shows how the threats and OSPs are covered by the Security Objectives. The second part include a justification that shows that all threats and OSPs are effectively addressed by the Security Objectives.

# 5.1.1 Mapping of Security Objectives

Threat and Organisational Security Policy	Security Objectives	Rationale

6117	SITE SECURITY TARGET LITE	Page 17 of 67	
Version 1.3	Editor: Proxy for System Security Info	Date: 14.02.2018	
T. Smart-Theft	O. Physical-Access O. Security-Control O. Alarm-Response O. Internal-Monitor O. Maintain-Security	structural organisatidetects up and allow response.  O. Physically cannot be access co.  O. Securit that an at detected reach the Secure Ro.  O. Alarmon. Physical Security that a resident the alar that this resident the alar that this resident.	Response supports al_Access and O. Control by ensuring ponse will be given rm systems and response is quick o prevent access to
		Maintain- that the a and main Together,	these objectives fore counter T.
T. Rugged-Theft	O. Physical-Access O. Security-Control O. Alarm-Response	structural organisat	ination of , technical and ional measures nauthorized access

6117	SITE SECURITY TARGET LI	Page 18 of 67	
Version 1.3	Editor: Proxy for System Security I	Date: 14.02.2018	
	O. Internal-Monitor O. Maintain-Security	response O. Physical that the S physically cannot be access conducted that an at detected reach the Secure Ro O. Alarm-Fo. Physical O. Security ensuring the given the systems are sponse prevent a O. Internal O. Maintain that the aland main Together,	Response supports I_Access and y_Control by that a response will to the alarm nd that this is quick enough to ccess to the assets. I-Monitor and in-Security ensure above is managed tained. these objectives fore counter T.
T. Computer-Net	O. Internal-Monitor O. Maintain-Security O. Logical-Access O. Logical-Operation O. Staff-Engagement	prevent U to the into Requirem regarding defined in	nical and ional measures Inauthorized access ernal network. Lents and rules this threat are noth Site's and occumentation.

6117	SITE SECURITY TARGET LITE			Page 19 of 67
Version 1.3	Editor	Editor: Proxy for System Security Information		Date: 14.02.2018
			the development connection that an attention and connection and connection are used to multiple that all connection are used to multiple that the connection are used to multiple the connection are used to multiple the connection are used to make the conn	these objectives fore counter er-Net.
T. Unauthorized-Staf	†	O. Physical-Access O. Security-Control	Physical and logical access control limits the access to sensitive data to authorised persons. Any other person may enter the project rooms only under the supervision of an authorised person (typically PM). Requirements and rules regarding this threat are defined in both Site's and client's	
		O. Alarm-Response		
		O. Internal-Monitor		
		O. Maintain-Security O. Logical-Access		
		O. Logical-Access O. Logical-Operation		
		O. Staff-Engagement		

6117		SITE SECURITY TARGET LITE	Page 20 of 67
Version 1.3	Editor:	Proxy for System Security Information	Date: 14.02.2018
		O. Phythat tiphysic cannot access O.Sec that a detector	nentation.  ysical-Access ensures he Secure Rooms are cally partitioned off, so of be entered without s control check.  urity-Control ensures n attacker will be ted when trying to the assets through the
		Securion O.Alar O.Phy O.Securion of the gives system response.	e Rooms.  rm-Response supports sical_Access and urity_Control by ing that a response will en to the alarm and that this nse is quick enough to nt access to the assets.
		O.Log that u can't	ical-Access and ical-Operation ensures nauthorized people have access to assets or gurations items.
		emplo check	ff-Engagement gives byees trainings, security s to prevent access to or configurations
		O.Ma that t	ernal-Monitor and intain-Security ensure he above is managed naintained.
		_	her, these objectives herefore counter T.

6117	SITE SECURITY TARGET LITE			Page 21 of 67
Version 1.3	Editor: Proxy for System Security Information		Date: 14.02.2018	
			Unauthor	ised-Staff.
T. Staff-Collusion		O. Internal-Monitor O. Maintain-Security O. Staff-Engagement O. Transfer-Data	The application of internal security measures combined with the hiring policies that restrict hiring to trustworthy employees prevent Unauthorized access to sensitive data or items.  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. Transfer-Data ensures that sensitive electronic configuration items (data or documents in electronic form) are protected.  Together, these objectives will therefore counter T.Staff-Collusion.	
T. Attack-Transport		O. Transfer-Data O. Internal-Shipment O. Staff-Engagement	measures during int prevent n disclosure data durin applied se physical it internal si detection	ed security on sensitive data ernal shipment nodification or e of any sensitive ng transport. The ecurity measures on ems during hipment allow of attempted .g. suspicious

6117	SITE SECURITY TARGET LITE		Page 22 of 67
Version 1.3	Editor: Proxy for System Security Information		Date: 14.02.2018
		O. Transfer sensitive of configurate document form) are O. International that for exponding manipulate O. Staff-Er that all staresponsibly NDAs, and Together,	tion items (data or ts in electronic protected.  al-Shipment ensures very sensitive tion item, the measures against tion are defined.  agagement ensures aff is aware of its ilities (signing d being trained).  these objectives fore counter T.
P. Config-Items	O. Config-Items	assigned a by the CN by the clied O. Configuration of the CN by the CN by the clied This object fulfil P. Co	Items ensures that uration items are unique identifier System provided ent ctive will therefore unfig-Items.
P. Config-Control	O. Config-Items O. Config-Control O. Logical-Access	site and p by the clie the intern	res provided by the rocesses defined ent are described in all procedures and The procedures

6110	SITE SECURITY TARG	Page 23 of 67	
Version 1.3	Editor: Proxy for System Security Information		Date: 14.02.2018
		the configuration of the produce access configuration of the configuration of the produce access confi	ent.  Items ensures that uration items procedures are a unique identifier System provided ent  Control ensures applies a release e for the setup of action process for product.  Access ensures atrol and
		measures changes. This object	for set up and ctive will therefore only control.
P. Config-Process	O. Config-Items O. Config-Control	The service site and posite and posite interruguidance, and guidante configuranagem.  O. Configurall configurations including assigned assigned site.	ces provided by the rocesses defined ent are described in all procedures and The procedures ince are covered by guration items.  Items ensures that uration items documentation are a unique identifier it System provided

6117	SITE SECURITY TARGET LITE			Page 24 of 67
Version 1.3	Editor: Proxy for System Security Information		Date: 14.02.2018	
			O. Config-Control ensures that site applies a release procedure for the setup of the production process for each new product.  Together, these objectives will therefore fulfil P. Config-Process.	
P. Reception-Control		O. Internal-Shipment O. Staff-Engagement	delivery procorrect shadelivery of applied serimoming site ensurance even decomply with stated by O. Transfersensitive configurated documents form) are O. International form an ipulation of the configuration of the conf	olled shipment and procedures ensure alipment and of items. The ecurity measures on items done at the res that the configuration items ith the properties the client.  Per-Data ensures that electronic tion items (data or its in electronic protected.  Pal-Shipment ensures every sensitive ition item, the in measures against ition are defined.  Ingagement ensures aff is aware of its illities (signing it being trained).  These objectives fore fulfil P.  In-Control.

6117	SITE SECURITY TARGET LITE		Page 25 of 67
Version 1.3	Editor: Proxy for System Security Information		Date: 14.02.2018
P. Organise-Product	O. Logical-Access O. Logical-Operation O. Organise-Product	The development process (being part of client's production process) is applied as specified by the client. All process activities requiring justified change necessitates client's permission. The client's procedures define the exact rules in that matter.  O.Logical-Access and O.Logical-Operation ensures that unauthorized people can't have access to assets or configurations items.  O. Organise-Product ensures that for development the specific process and security measures are applied.  Together, these objectives will therefore fulfil P. Organise-Product.	
P. Product-Transport	O. Config-Items O. Internal-Shipment O. Transfer-Data	delivery process of delivery of the CM by the clies of that for exceptions of the configurations of the configuration of the configurat	Items ensures that uration items are unique identifier System provided

6117	SITE SECURITY TARGET LITE			Page 26 of 67
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
P. Transfer-Data		O. Logical-Access	O. Transfe secure tra package. Together, will there Product-T	fied or higher
		O. Logical-Operation O. Transfer-Data	electronic to ensure the data a over encriconnection measures the integration that the transfiprocedure	evel data in form is encrypted confidentiality of and sent to client ypted VPN on. In addition are used to control ity of the data after fer. The client's es define the exact at matter.
			O.Logical-that unau can't have configurated. Transfer protection electronic items.	Access and Operation ensures thorized people e access to assets or tions items. er-Data ensures the n of sensitive c configuration these objectives fore fulfil P.

6117	SITE SECURITY TARGET LITE	Page 27 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

# 6 Extended Components Definition (AST\_ECD)

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

# 7 Security Assurance Requirements (AST\_REQ)

The security assurance requirements for this Site Security Target shall support an evaluation according to the assurance level EAL6.

# 7.1 Application Notes and Refinements

The description of the site certification process [4] includes specific application notes. The site shall allow product evaluation according to the assurance component AVA\_VAN.5. 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 SST the associated processes for the handling of products are in the focus and described in this SST. These processes are subject of the evaluation of the site.

The Security Assurance Requirements (SARs) are:

# Class ALC: Life-cycle support

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)

# 7.1.1 Overview and refinements regarding CM (Configuration Management) capabilities (ALC\_CMC)

Configuration Management, as being the practice of handling all project changes systematically to maintain project integrity over time, is defined at the project starting phase.

According to [4]the processes rather than a TOE are in the focus of the CMC examination. The changed content elements are presented below. Since the application notes in [4]are defined for ALC\_CMC.5.

Sii implements certain procedures, rules and uses tools that are required to manage and evaluate proposed changes, track the status of changes, and to maintain project documentation.

6117	SITE SECURITY TARGET LITE	Page 28 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

Changes occurring within the project operation could be divided into groups:

- 1. Changing project requirements change control management
- 2. **Software revision control changes** practice that tracks and provides control over changes to source code
- 3. **Validation set-up configuration changes** based on BKC (Best Known Configuration) provided by a Client.

Within development and validation projects different tools and frameworks are created according to defined revision control system. Supporting Client's projects Sii makes use of many different source control version tools, e.g. following steps described below:

#### 1. Revision control changes process - step 1:

Create local working copy from repository, perform code changes and develop new code on local copy (each programmer on his station), test code and update local copy, commit to repository, after each change committed application build occurs and Continuous Integration process is started (automated source code and functionality validation), push to project common remote repository.

#### 2. Revision control changes process – step 2:

Create local workspace, create global change list (consist of all changed files), modified files are shelved remotely, Continuous Integration process is started (source code build, automated tests), code review process is triggered, code merge with latest versions from remote repository, once again CI process is carried out, code changes are submitted to project common remote repository.

Changes to development and validation platform configurations are based on BKC (Best Known Configuration) provided by Client on weekly/biweekly basis. Package is installed on test platforms and all configuration issues are reported in defined by Client tracking tool as artefacts or items. After resolving new BKC issues manual and automated test execution process starts.

<u>CAUTION</u>: In case of Sii all the documentation concerning ALC\_CMC is mainly based on the one provided by the client.

6117	SITE SECURITY TARGET LITE	Page 29 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

# 7.1.2 Overview and refinements regarding CM scope (ALC\_CMS)

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.

As this site is not directly involved with producing, storing or delivering the TOE, the only relevant configuration items under CM scope are:

- This Site Security Target for this site,
- The Development Security documentation for this site (site security procedures),
- Life Cycle Support documentation
- The client's documentation described in 4.1,
- All documentation related to the inspection of the development process (client's audits confirmed with reports, internal audits confirmed with reports)
- Test results.

In order to manage the client's documentation (described in 4.1 as well as related to the inspection of the development process) an appropriate revision control system is provided by client. In order to manage the site security procedures documentation an internal web application (based on share point repository) is used.

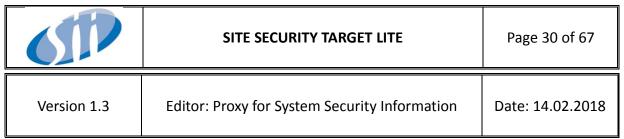
#### 7.1.3 Overview and refinements regarding Delivery procedure (ALC\_DEL)

Due to the specific nature of projects realised in the evaluated site (our engineers are part of larger teams situated in various locations in Europe) and due to client's requirements, the site does not define any internal procedure concerning external delivery. In fact, the development process does not contain any external delivery.

As a result, the ALC\_DEL procedure is not applicable to this site.

#### 7.1.4 Overview and refinements regarding Development Security (ALC DVS)

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 Unauthorized people.



Assigned personnel of the site operate the systems for access control and surveillance and respond to alarms. Technical security measures like video control, sensors support the enforcement of the access control. This personnel are also responsible for registering and ensuring escort of visitors, Unauthorized Sii employees, contractors and suppliers.

The technical and organisational security measures ensure that an alarm is generated before an Unauthorized person gets access to any asset. After the alarm is triggered the Unauthorized 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 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 computer systems are connected to the encryption equipment are kept up-to-date (software updates, security patches, virus protection, spyware protection).

The Site 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 have to sign a non-disclosure agreement. Furthermore, all employees are trained and qualified for their job.

# 7.1.5 Overview and refinements regarding Life-cycle definition (ALC\_LCD)

The Site is not equal to the entire development environment. Therefore the ALC\_LCD criteria are interpreted in a way that only this life-cycle phase has to be evaluated which is in the scope of the site. For this site the 'Development' life-cycle phase is relevant.

6117	SITE SECURITY TARGET LITE	Page 31 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

# 7.1.6 Overview and refinements regarding Tools and Techniques definition (ALC\_TAT)

The CC assurance components of family ALC\_TAT refer to the tools that are used to during development process. The client's defines which tools and techniques have to be used by the site. The client provides the complete environment with all necessary tools preinstalled. The proper usage of the provided tools and defined techniques is verified be the client during audits.

6117	SITE SECURITY TARGET LITE	Page 32 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

# 7.2 Security Assurance Rationale

# **7.2.1** Security Assurance Rationale – Dependencies

The dependencies for the assurance requirements are as follows (see (Common Criteria, July 2009), appendix C):

SAR	Dependency
ALC_CMC.5	ALC_CMS.1, ALC_DVS.2, ALC_LCD.1
ALC_CMS.5	None
ALC_DEL.1	None
ALC_DVS.2	None
ALC_LCD.1	None
ALC_TAT.3	ADV_IMP.1

# 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 [4]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 [4]5.7 'Application Notes for ALC\_TAT'.

# 7.2.2 Security Assurance Rationale – ALC-CMC

SAR	Security Objectives	Rationale
ALC_CMC.5.1C	O. Config-Items	The particular modules are
	O. Config-Control	stored in Version Control
The TOE shall be labelled	o. coming control	System which manages
with its unique reference.		version numbering of
		particular source code and
		binary files. That Product,
		which has been integrated

6117	SITE SECURITY TARGET LITE			Page 33 of 67
Version 1.3	Editor: Proxy for System Security Information			Date: 14.02.2018
			unique ve team wor package a For detail	modules, has a ersion, label in the k platform, stored and Release Notes. s refer to [9] Support document.
			O. Config-I all configur assigned a by the CM by the clie	
			that site a	-Control ensures applies a release e for the setup of action process for product.
			Together, will there ALC_CMC	
ALC_CMC.5.2C  The CM documentation so describe the method use uniquely identify the configuration items.		O. Config-Items O. Config-Control	convention provided naming of naming, for numbering identificar	ses naming ons defined and by the client. The onventions (e.g. aming, on-chip ile version ag) allows unique tion of the tion items.
			all configu	Items ensures that uration items are a unique identifier I System provided ent.
			_	-Control ensures applies a release

6117	SITE SECURITY TARGET LITE			Page 34 of 67
Version 1.3	Editor	: Proxy for System Security Info	Date: 14.02.2018	
			the produ	these objectives fore fulfil
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-Control	review of configurar covered by Control properties the client Managem project).  O. Configurar covered by the properties the client Managem project covered by the client Managem project covered by the client covered by the covered by	and appropriate changes to tion items is by the Change rocedures managed oject leader. These es are defined by in the Project nent Plan (per Control ensures applies a process to and introduce
			changes f processes products. Together,	or services and /or of released these objectives fore counter
ALC_CMC.5.4C  The CM system shall uniquely identify all configuration items.		O. Config-Items O. Config-Control	convention provided naming co project naming, f numbering identification	ses naming ons defined and by the client. The conventions (e.g. aming, on-chip ile version g) allows unique tion of the tion items.

6117	SITE SECURITY TARGET LITE			Page 35 of 67
Version 1.3	Editor: Proxy for System Security Information			Date: 14.02.2018
ALC_CMC.5.5C The CM system shall automated measures that only authorised are made to the configuration items.	provide s such	O. Config-Control O. Logical-Access	all configurations assigned a by the CM by the clies. O. Configuration and the production and the production and the production and the production and the authors are before the authors are before the applied item.  O. Configuration and the production and the production and the production are before applied item.  O. Configuration and the processes products. O. Logical access continueraction measures changes.	Control ensures applies a release e for the setup of action process for product.  these objectives fore fulfil 1.5.4C.  uration items are er configuration of Control ensures and to a configuration of control ensures applies a process to ad introduce or services and /or of released  -Access ensures and end acceptance of rest up and these objectives

6117		SITE SECURITY TARGET LITE		Page 36 of 67
Version 1.3	Editor	: Proxy for System Security Infor	rmation	Date: 14.02.2018
			ALC_CMC	5.5C.
ALC_CMC.5.6C  The CM system shall		O. Config-Control O. Organise-Product	detail a process	plan describes in system integration i.e. automated produce the TOE. It
the production of the TOE by automated means.			means to produce the TOE. uses continuous integration tool do define compilation process and built system with compiler. For details refer to [9] Life-cycle Support document	
			that site a	-Control ensures applies a release e for the setup of action process for product.
			that for d specific p	se-Product ensures evelopment the rocess and security are applied.
			Together, will there ALC_CMC	
ALC_CMC.5.7C		O. Config-Control		fied source code
The CM system shall that the person resp	onsible	O. Organise-Product	performe	s the code review d by a SE other that ho developed it.
for accepting a configure into CM is not to	he			odule an Architect odule decides if all
person who develop	ea II.		should be	lified functionalities released and send
			product r	Integrator. For the elease the System r decides if the
			modified	module will be in the Product

6117	SITE SECURITY TARGET LITE			Page 37 of 67
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
ALC_CMC.5.8C  The CM system shall the configuration iter comprise the TSF.	•	O. Config-Control O. Organise-Product	O. Config- that site a classify ar changes for processes products. O. Organis that for de specific processes Together, will there ALC_CMC The CN defines So the CM storage in Access le Configura being so modules platform. For details Life-cycle O. Config- that site a procedure the products.	documentation ecurity Objects and plan defines the nethod and access. evels (managed by tion Managers) are et for users to in the team work s refer to [9] Support document. Control ensures applies a release e for the setup of action process for

6117	SITE SECURITY TARGET LITE			Page 38 of 67
Version 1.3	Editor	: Proxy for System Security Info	rmation	Date: 14.02.2018
			Together, will there ALC_CMC	
ALC_CMC.5.9C  The CM system shall the audit of all change the TOE by automate means, including the originator, date, and the audit trail.	ges to ed	O. Config-Control O. Organise-Product	platform an autho particular module The tead offers a review of For detail Life-cycle O. Config- that site a classify ar changes f processes products. O. Organi that for d specific p measures	se-Product ensures evelopment the rocess and security are applied. these objectives fore fulfil
ALC_CMC.5.10C  The CM system shall an automated means identify all other configuration items to affected by the changiven configuration is	s to hat are ge of a	O. Config-Control O. Organise-Product	created ir on it a list is being re concerned Change C Accepted	e requests are the tracker. Based of change requests eviewed and d by a body called ontrol Board. change requests ed to the Product

6117		SITE SECURITY TARGET LITE	Page 39 of 67	
Version 1.3	Editor	: Proxy for System Security Info	rmation	Date: 14.02.2018
			document tasks for t tracker. Fo	o the Product tation and creates the SEs in the or details refer to cle Support t.
			that site a classify ar changes f	Control ensures applies a process to ad introduce or services and /or s of released
			that for despecific p	se-Product ensures evelopment the rocess and security are applied.
			Together, will there ALC_CMC	
ALC_CMC.5.11C  The CM system shall I to identify the version implementation representation from the TOE is generated.	n of the which	O. Config-Items O. Config-Control	represent codes) are revision c which aut a unique revision (value) to revision in Change	ementation rations (source e managed in a control system comatically assigns number to each version). Reference n numbers are used e Requests, Problem Release Notes etc.
			all configures assigned a by the CN by the clie	Items ensures that uration items are a unique identifier System provided ent.

6117	SITE SECURITY TARGET LITE			Page 40 of 67
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
			procedure	pplies a release e for the setup of oction process for product.
			Together, will there ALC_CMC	
ALC_CMC.5.12C  The CM documentat include a CM plan.	ion shall	O. Config-Control	includes t document the Project Configura CM plan is document	tion Manager. The s a single t. The CM plan is sioned during
			that site a	Control ensures applies a release for the setup of action process for product.
			1	ctive will therefore CMC.5.12C.
ALC_CMC.5.13C  The CM plan shall de how the CM system for the development TOE.	is used	O. Config-Control O. Organise-Product	the CM sy aspects of system in Responsib process, a Control Be labelling, details ref	lan describes how estem is used in f change control, tegration tools, bilities in CM ectivities of Change bard, VCS and TOE Data-backups. For fer to [9]
			_	Control ensures

6117	SITE SECURITY TARGET LITE			Page 41 of 67
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
ALC_CMC.5.14C  The CM plan shall de the procedures used accept modified or not created configuration as part of the TOE.	to ewly	O. Config-Control O. Organise-Product	the produce ach new O. Organic that for despecific products.  O. Organic that for despecific products.  Together, will there ALC_CMC  The CM products of the second includes of the sec	se-Product ensures evelopment the rocess and security are applied. these objectives fore fulfil a.5.13C. lan describes the tegration Process. ource code the ce procedure code review, ouilt verification ation, subsequently in into module and tegration into or the

6117	SITE SECURITY TARGET LITE			Page 42 of 67
Version 1.3	Editor	: Proxy for System Security Infor	rmation	Date: 14.02.2018
			-	these objectives therefore fulfil .5.14C.
ALC_CMC.5.15C The evidence shall demonstrate that all configuration items a maintained under the system.	are being	O. Config-Items O. Config-Control	kept under control act of the produce the produce of the control act of the control act of the produce ach new of the produce	Support document.  Items ensures that uration items are a unique identifier. System provided ent.  Control ensures applies a release of for the setup of action process for product.  These objectives fore fulfil
ALC_CMC.5.16C  The evidence shall demonstrate that the system is being oper accordance with the plan.	ated in	O. Config-Items O. Config-Control	the CM sy with the C among th System in V&V repo artifacts (in history en files in the VCS	dence of usage of stem in accordance CM plan there are e others: tegration reports, rts, Tracker ie. tickets with their stries),Revisions of e VCS, Logs for a file 5, Code review R history in the

6117		SITE SECURITY TARGET LITE		Page 43 of 67
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
			all configurations assigned a by the CM by the clied O. Configuration that site a procedure the produce each new Together,	Control ensures applies a release for the setup of action process for product.  these objectives therefore fulfil

# 7.2.3 Security Assurance Rationale – ALC-CMS

Security Objectives	Rationale
O. Config-Items	Configuration list for each
O. Config-Control	release in case of projects executed in the Site is included in the Release Notes for that release. For details refer to [9] Life-cycle Support document. O. Config-Items ensures that all configuration items are assigned a unique identifier by the CM System provided by the client. O. Config-Control ensures that site applies a release procedure for the setup of the production process for each new product. Together, these objectives
	O. Config-Items

6117	SITE SECURITY TARGET LITE			Page 44 of 67
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
			will there	
ALC_CMS.5.2C  The configuration list uniquely identify the configuration items.		O. Config-Items	release no	uration items in the otes are listed by a lawersion number the VCS.
configuration items.			all configu	Items ensures that uration items are unique identifier System provided ent.
			1	ctive will therefore CMS.5.2C.
ALC_CMS.5.3C  For each TSF relevant configuration item, the configuration list shall indicate the developed item.	ne II	O. Config-Items	(including configuration release not information changed in the team project armanagements)	offiguration items of TSF relevant tion items) the otes include on who and how t, the reference to work platform and requirements tient system project the change.
			all configues assigned a by the CN by the clie	
			1	ctive will therefore _CMS.5.3C.

# 7.2.4 Security Assurance Rationale – ALC-DEL

SAR	Security Objectives	Rationale	

6117		SITE SECURITY TARGET LITE	Page 45 of 67	
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
ALC_DEL.1.1C  The delivery docume shall describe all prothat are necessary to maintain security which distributing versions TOE to the consumer	cedures en of the	Not applicable for that site.	Not applic	cable for that site.

# 7.2.5 Security Assurance Rationale – ALC-DVS

SAR	Security Objectives	Rationale
ALC_DVS.2.1C	O. Physical-Access	For details refer to [9]
The development security	O. Security-Control	Life-cycle Support document.
documentation shall	O. Alarm-Response	O. Physical-Access, O.
describe all the physical, procedural, personnel, and	O. Maintain-Security	Security-Control and O. Alarm-Response ensures the
other security measures that	O. Logical-Access	physical security measures.
are necessary to protect the	O. Logical-Operation	O.Logical-Access and
confidentiality and integrity of the TOE design and	O. Staff-Engagement	O.Logical-Operation ensures
implementation in its	O. Internal-Shipment	that unauthorized people
development environment.	O. Transfer-Data	can't have access to assets or configurations items.
	O. Internal-Monitor	O.Staff-Engagement gives employees trainings, security checks to prevent access to assets or configurations items.
		O. Internal-Shipment ensures that for every sensitive configuration item, the protection measures against manipulation are defined.
		O. Transfer-Data ensures that sensitive electronic

6117	SITE SECURITY TARGET LITE			Page 46 of 67
Version 1.3	Editor	: Proxy for System Security Info	rmation	Date: 14.02.2018
ALC_DVS.2.2C The development see documentation shall that the security mean of protection to main confidentiality and in of the TOE.	justify asures y level ntain the	O. Internal-Monitor O. Internal-Shipment O. Transfer-Data O. Maintain-Security	document form) are O.Interna O.Maintain the there ALC_DVS. For detail Support of O. International the sufficing security in O. International that for example of the configurary protection manipulary of the configurary of the configuration of the configuration of the configurary of the configuration of	these objectives fore fulfil 2.1C. s refer [9] Life-cycle locument. sl-Monitor and O. Security ensures lency of applied measures. sl-Shipment ensures levery sensitive tion item, the measures against tion are defined. er-Data ensures that electronic tion items (data or ts in electronic protected. these objectives fore fulfil 2.2C.
ALC_DVS.2.3C  The evidence shall just that the security means provide the necessary of protection to main	asures y level	<ul><li>O. Internal-Monitor</li><li>O. Internal-Shipment</li><li>O. Transfer-Data</li><li>O. Maintain-Security</li></ul>	measures necessary the confid	to provide the level to maintain lentiality and products is

6117	SITE SECURITY TARGET LITE		Page 47 of 67	
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
confidentiality and in of the TOE.	ntegrity		alignment measures art Minim Requirem Together, objectives Access, O O. Alarm- Maintain- Access, O O. Staff-El Internal-S Transfer-E O. Interna related to security n	all of these s (O. Physical Security-Control, Response, O. Security, O. Logical Logical-Operation, ngagement, O. hipment, O. Data al-Monitor) are the implemented neasures in place merefore fulfil

# 7.2.6 Security Assurance Rationale – ALC-LCD

SAR	Security Objectives	Rationale
ALC_LCD.1.1C	O. Config-Control	For details refer to [9] Life-
The life-cycle definition	O. Organise-Product	cycle Support document.
documentation shall		O. Config-Control ensures
describe the model used to		that site applies a release
develop and maintain the		procedure for the setup of
TOE.		the production process for
		each new product.
		O. Organise-Product ensures
		that for development the
		specific process and security
		measures are applied.
		Together, these objectives

6117	SITE SECURITY TARGET LITE		Page 48 of 67	
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
			will there	
ALC_LCD.1.2C  The life-cycle model provide for the necessor control over the development and maintenance of the	ssary	O. Config-Control O. Organise-Product	cycle Supp O. Config- that site a procedure the produ each new O. Organis that for do specific pu measures	se-Product ensures evelopment the rocess and security are applied. these objectives fore fulfil

# 7.2.7 Security Assurance Rationale – ALC-TAT

SAR	Security Objectives	Rationale
ALC_TAT.3.1C	O. Organise-Product	The [9] Life-cycle Support
Each development tool used		document shows that the
for implementation shall be		development tools used for
well-defined.		implementation are well-
		defined.
		O. Organise-Product ensures
		that for development the
		specific process and security
		measures are applied.
		That objective will therefore
		fulfil ALC_TAT.3.1C.
ALC_TAT.3.2C	O. Organise-Product	The [9] Life-cycle Support
The documentation of each		document shows that the
development tool shall		development tools used for
		implementation are well-

6110	SITE SECURITY TARGET LITE		Page 49 of 67	
Version 1.3	Editor	: Proxy for System Security Infor	mation	Date: 14.02.2018
unambiguously define meaning of all stateme well as all conventions directives used in the implementation.	ents as		that for de specific pr measures	se-Product ensures evelopment the rocess and security are applied. ctive will therefore TAT.3.2C.
ALC_TAT.3.3C  The documentation of development tool shal unambiguously define meaning of all implementation-dependent options.	ll the	O. Organise-Product	document developm implement defined.  O. Organisthat for despecific promeasures	re-cycle Support at shows that the ment tools used for matation are well- se-Product ensures evelopment the rocess and security are applied. ctive will therefore TAT.3.2C.

# 8 Site Summary Specification (AST\_SSS)

# 8.1 Preconditions Required by the Site

This section provides background information on the assumptions defined in chap. 4.4.

Assumption	Fulfilment of assumption
A. Prod-Specification: The client must	The client provides appropriate documentation
provide appropriate requirements	concerning the software development for smart
specifications, definitions, assembly	cards. All documents provided by the client are
guidance, test requirements, test limits	classified as 'company confidential', 'strictly
in order to ensure an appropriate	confidential' or similar classification if they require
development or production process.	protection against disclosure. All documents with
The provided information includes the	no classification as confidential document are
classification of the documents and	regarded as 'public' or 'internal use'.

611	SITE SEC	CURITY TARGET LITE	Page 50 of 67
Version 1.3	Editor: Proxy for	System Security Information	Date: 14.02.2018
product.			
connectivity (HW VP client's premises. provides, configure	n used for product ment, as well as nitors internetwork switches, firewalls components) and rypted, secure N) between Sii and The client also	The Site is connected with the by the hardware VPN, which managed by the Client. The properly configured work measures for data transfer, ned development environment whe and managed by the Client.	n is configured and he Client provides stations. Security twork and software
A. Init-Data: The configuration and in personalisation product introduction process of the site.	nitialisation / precess are provided client verifies the or initialisation / process during the	The client provides lapt development with pre-configure installed software, predefined Sofos HDD encryption. Each software is changed or most special application "Run Adversed. (according to How to Institute of Company o	security rules and time an additional dification needed a ertised Programs" is stalling Programs via
A. Process-Spec development proces client who is the pro-	s is defined by the	The Sii team working on the responsible for realization of a only. The client is responsible (based on acceptance tests) of development process. The development process performed the final product of the whole product of the whole process.	part of this process ble for acceptance of the result of the result of the ed on the site is not
A. Item-Identification item realists appropriately label identification of the	eceived by the site elled to ensure the	The site uses naming converged provided by the client. The response of the configuration items.	naming conventions naming, file version

A. Internal-Shipment: The recipient For every internal shipment expected from the

6117	SITE SECURITY TARGET LITE		Page 51 of 67
Version 1.3	Editor: Proxy for	System Security Information	Date: 14.02.2018
(client) of the prod	uct is identified by	Site, the client has to provide	the Site appropriate
the address of the	e client site. The	address data. This shall be	address data for
address of the clie	ent is part of the	physical items and equivalent	t address data (e.g.
product setup.		email address) for the delive	ery or shipment of
		electronic items.	

#### 8.2 Services of the Site

Services provided by Sii for Client connected with software development for smart cards are the following:

- Elaboration of architecture documentation and software design documentation,
- Development of source code,
- Design and development of test software and test environments,
- Design and development of test frameworks,
- Development of test cases and documentation,
- Providing validation services,

All services mention above are performed in the development environment managed by the

The services mentioned above constitute the Development phase of the Smart Card life-cycle.

#### 8.3 Objectives Rationale

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

## O. Physical-Access:

The development site is operated by Sii only and is not shared with other companies.

The site is separated into different security levels. The development site is monitored by security staff Sii and security guards on duty and surveillance cameras at all times. Only authorized users are allowed within the development site. They have to authenticate themselves by staff badge or visitor badge.

6117	SITE SECURITY TARGET LITE	Page 52 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

These measures prevent access to sensitive areas for any unauthorized person and therefore prevent the threats T. Smart-Theft, T. Rugged-Theft, T. Unauthorized-Staff.

### O. Security-Control:

The security guards are monitoring the site and the surveillance system 24 hours a day. According the security level the areas are patrolled by the guards frequently. The alarm system and the CCTV system support the security control. Further on the security control is supported by O. Physical-Access requiring different level of access control for the access to the related assets during operation as well as during off-hours.

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.

#### O. Alarm-Response:

The alarm system is connected to the guard house that is manned 24 hours a day. Additional patrolling and the CCTV system support the alarm respond. Additionally, the employees are responding the alarm system during working hours. 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.

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

6117	SITE SECURITY TARGET LITE	Page 53 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

#### O. Internal-Monitor:

Regular security management meetings are implemented to monitor security incidences as well as changes or updates of security relevant systems and processes. This comprises also logs and security events of security relevant systems like physical security access control, alarm system, Firewall, and Virus protection. Major changes of security systems and security procedures are reviewed and approved by the responsible security managers.

In addition, internal audits are performed on a regular basis to ensure the application of the security measures.

The monitoring and protection of the IT systems (CCTV, access control, alarm system and network) are handled by the IT departments under supervision of the IT security manager of the company's security staff.

This addresses the threats T. Smart-Theft, T. Rugged-Theft, T. Computer-Net, T. Unauthorized-Staff, T. Staff-Collusion.

#### O. Maintain-Security:

All security related alarm and detection systems are checked on a regular basis. Logs for building access or site access as well as access to especially secured areas are stored and checked on a regular basis by security guards. Network security is monitored permanently by the IT department.

This addresses the threats T. Smart-Theft, T. Rugged-Theft, T. Computer-Net, T. Unauthorized-Staff, T. Staff-Collusion.

### O. Logical-Access:

The IT network is logically separated from the outside world by a firewall system consisting of several firewalls which ensures that only authorized connections from and to the IT network are possible. At least two firewalls (i.e. outer firewall and inner firewall) are present between the outside world and any internal network.

Each user has an individual account. To access data on the company's network every user has to authenticate himself either by login name and password or token and password. Multiple successive failed authentication attempts lead to a blocked the account. The number of retries depend on the authentication method.

Access rights to all network resources are set according to a need-to-know or need-to have

6117	SITE SECURITY TARGET LITE	Page 54 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

basis, respectively. Access rights of users who do not need access to a network share any longer (e.g. change of jobs) are revoked. In particular, all accounts of employees who leave the company are deactivated.

This addresses the threats T. Computer-Net and T. Unauthorized-Staff and support the OSPs P. Config-Control, P. Organize-Product and P. Transfer-Data.

## O. Logical-Operation:

Virus protection and patch management for operating systems and applications ensure the correct operation of the systems and prevent the systems from malfunction. They ensure that protective measures of the IT workplaces are up-to-date (virus definitions, security patches of operating system, security patches of programs, etc.). In addition, regular backups are applied to all network shares related to the configuration management system to prevent loss of data. Backup tapes are securely stored.

This addresses the threats T. Computer-Net and T. Unauthorized-Staff and support the OSP P. Organize-Product and P. Transfer-Data.

### O. Config-Items:

All configuration items are identified by a unique version number by the configuration management system. The configuration management system allows unique labelling of any set of configuration items in the configuration management system.

By this the OSPs P. Config-Items, P. Config-Control, P. Config-Process and P. Product-Transport are addressed.

## O. Config-Control:

The services provided by the site and processes defined by the client are described in the internal procedures and guidance. The procedures and guidance are covered by the configuration management.

This addresses the OSP P. Config-Control and P. Config-Process.

6117	SITE SECURITY TARGET LITE	Page 55 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

## O. Organize-Product:

The development process (being part of client's production process) is applied as specified by the client. All process activities requiring justified change necessitates client's permission. The client's procedures define the exact rules in that matter.

This addresses the OSP P. Organise-Product.

## O. Staff-Engagement:

All employees working at the site and having access to sensitive information or data have to sign a non-disclosure agreement to provide legal liability to protect sensitive information against disclosure. In addition, all employees are trained regarding security to support the security awareness.

This addresses the threats T. Computer-Net, T. Unauthorized-Staff and T. Staff-Collusion, T. Attack-Transport and support the OSP P. Reception-Control.

#### O. Internal-Shipment:

For every internal shipment expected from the development Sii by the client, the client has to provide the Sii with appropriate address data. This shall be address data for physical items and equivalent address data (e.g. email address) for the delivery or shipment of electronic items

The threat T. Attack-Transport and the OSP P. Reception-Control and P. Product-Transport are addressed by the internal shipment.

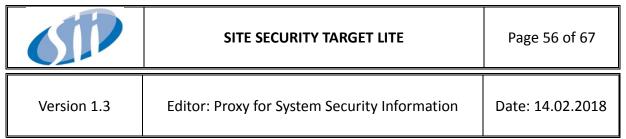
#### O. Transfer-Data:

The integrity and confidentiality of the data transfer from/to the site and within the site is ensured by appropriate secure measures.

The threat T. Staff-Collusion and T. Attack-Transport as well as the OSP P. Reception-Control , P. Product-Transport and P. Transfer-Data.

#### 8.4 Security Assurance Requirements Rationale

The Security Assurance Requirements rationale does not explicitly address the developer action elements defined in [2] because they are implicitly included in the content elements. This comprises the provision of the documentation to support the evaluation and the



preparation for the site visit. In addition, this includes that the procedures are applied as written and explained in the documentation.

## 8.4.1 ALC\_CMC.5

The security assurance requirements of the assurance class "CM capabilities" listed below are suitable to support the secure and efficient development of products due to the formalized acceptance process and the automated support. The identification of all configuration items allows a parallel development of different products. The requirement for authorized changes support the integrity and confidentiality required for the products. Therefore this assurance level meets the requirements for the configuration management.

## 8.4.1.1 ALC\_CMC.5.1C

The TOE shall be labelled with its unique reference.

## 8.4.1.2 ALC\_CMC.5.2C

The CM documentation shall describe the method used to uniquely identify the configuration items.

#### 8.4.1.3 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.

#### 8.4.1.4 ALC CMC.5.4C

8.4.1.5 The CM system shall uniquely identify all configuration items.ALC CMC.5.5C

The CM system shall provide automated measures such that only authorised changes are made to the configuration items.

#### 8.4.1.6 ALC CMC.5.6C

The CM system shall support the production of the TOE by automated means.

### 8.4.1.7 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.

611	SITE SECURITY TARGET LITE	Page 57 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

8.4.1.8 ALC CMC.5.8C

8.4.1.9 The CM system shall identify the configuration items that comprise the TSF.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.

8.4.1.10 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.

8.4.1.11 ALC CMC.5.11C

The CM system shall be able to identify the version of the implementation representation from which the TOE is generated.

8.4.1.12 ALC CMC.5.12C

8.4.1.13 The CM documentation shall include a CM plan.ALC CMC.5.13C

The CM plan shall describe how the CM system is used for the development of the TOE.

8.4.1.14 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.

8.4.1.15 ALC CMC.5.15C

The evidence shall demonstrate that all configuration items are being maintained under the CM system.

8.4.1.16 ALC CMC.5.16C

The evidence shall demonstrate that the CM system is being operated in accordance with the CM plan.

### 8.4.2 ALC\_CMS.5

The security assurance requirements of the assurance class "CM scope" listed below are suitable to define a controlled environment for the product development. This includes the documentation of the site security and the procedures for the configuration management. Since the site certification process focuses on the processes based on the absence of a concrete TOE these assurance requirements are considered to be suitable.

6117	SITE SECURITY TARGET LITE	Page 58 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

### 8.4.2.1 ALC CMS.5.1C

The configuration list shall include the following: the TOE itself; the evaluation evidence required by the SARs; the parts that comprise the TOE; the implementation representation; security flaw reports and resolution status; and development tools and related information.

#### 8.4.2.2 ALC CMS.5.2C

8.4.2.3 The configuration list shall uniquely identify the configuration items.ALC\_CMS.5.3C

For each TSF relevant configuration item, the configuration list shall indicate the developer of the item.

### 8.4.3 ALC DEL

The ALC\_DEL procedure is not applicable to this site.

#### 8.4.4 ALC\_DVS.2

The security assurance requirements of the assurance class "Development security" listed below are required since a high attack potential is assumed for potential attackers. The information used at the site during the development of the product can be used by potential attackers for the development of attacks. This information is needed to apply an attack within considerable time and effort.

#### 8.4.4.1 ALC DVS.2.1C

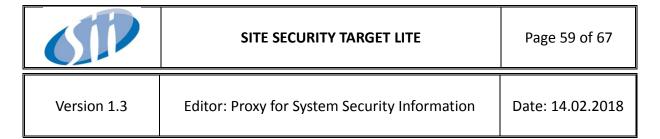
The development security documentation shall describe all the physical, procedural, personnel, and other security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation in its development environment.

## 8.4.4.2 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.

#### 8.4.4.3 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.



### 8.4.5 ALC\_LCD.1

The security assurance requirements of the assurance class "Life-cycle definition" listed below are suitable to support the controlled development process and maintenance of already developed products. This includes the documentation of these processes and the procedures for the configuration management. The site supports only the phases development (in the sense of the CC) of the described life cycle. The assurance requirements are considered to be suitable for this site.

#### 8.4.5.1 ALC LCD.1.1C

The life-cycle definition documentation shall describe the model used to develop and maintain the TOE.

#### 8.4.5.2 ALC LCD.1.2C

The life-cycle model shall provide for the necessary control over the development and maintenance of the TOE.

#### 8.4.6 ALC TAT.3

The CC assurance components of family "Tools and Techniques" refer to the tools that are used to during development process. The client's defines which tools and techniques have to be used by the site. The client provides the complete environment with all necessary tools preinstalled. The proper usage of the provided tools and defined techniques is verified be the client during audits.

Each development tool used for implementation shall be well-defined.

#### 8.4.6.2 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.

### 8.4.6.3 ALC TAT.3.3C

The documentation of each development tool shall unambiguously define the meaning of all implementation-dependent options.

6117	SITE SECURITY TARGET LITE	Page 60 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

#### **8.5 Security Assurance Requirements**

## O.Physical-Access

ALC\_DVS.2.1C requires that the developer shall describe all physical security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation in its development environment.

### O.Security-Control

ALC\_DVS.2.1C requires that the developer shall describe all personnel, procedural and other security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation including the initialization in its development environment.

#### O.Alarm-Response

ALC\_DVS.2.1C requires that the developer shall describe all personnel, procedural and other security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation including the initialization in its development environment. Thereby this objective contributes to meet the Security Assurance Requirement.

#### O.Internal-Monitor

ALC\_DVS.2.1C requires that the developer shall describe all personnel, procedural and other security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation including the initialization in its 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 design.

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.

Thereby this objective contributes to meet the Security Assurance Requirement.

### O.Maintain-Security

ALC\_DVS.2.1C requires that the developer shall describe all personnel, procedural and other security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation including the initialization in its development environment. Thereby this objective contributes to meet the Security Assurance Requirement.

6117	SITE SECURITY TARGET LITE	Page 61 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

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 design.

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.Logical-Access

ALC\_CMC.5.5C requires that the CM system provides automated measures so that only authorized changes are made to the configuration items.

ALC\_DVS.2.1C requires that the developer shall describe all personnel, procedural and other security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation including the initialization in its development environment.

Thereby this objective is suitable to meet the Security Assurance Requirement.

## **O.Logical-Operation**

ALC\_DVS.2.1C requires that the developer shall describe all personnel, procedural and other security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation including the initialization in its development environment.

Thereby this objective is suitable to meet the Security Assurance Requirement.

### O.Config-Items

ALC\_CMC.5.1C requires a documented process ensuring an appropriate and consistent labelling of the products.

ALC\_CMC.5.2C: The documentation shall describe the method used to uniquely identify the configuration items.

ALC CMC.5.4C: The CM system shall uniquely identify all configuration 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. Additionally

ALC\_CMC.5.15C: The evidence shall demonstrate that all configuration items are being maintained under the CM system.

ALC\_CMC.5.16C requires that the evidence shall demonstrate that the CM system is operated in accordance with the CM plan.

6117	SITE SECURITY TARGET LITE	Page 62 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

ALC\_CMS.5.1C: The configuration list shall include the following: the TOE itself; the evaluation evidence required by the SARs; the parts that comprise the TOE; the implementation representation; security flaw reports and resolution status; and development tools and related information.

ALC CMS.5.2C: The configuration list shall uniquely identify the configuration items.

ALC\_CMS.5.3C: For each TSF relevant configuration item, the configuration list shall indicate the developer of the item.

The combination of these Security Assurance Requirements is suitable to meet the objective.

#### O.Config-Control

ALC\_CMC.5.1C requires a documented process ensuring an appropriate and consistent labelling of the products.

ALC\_CMC.5.2C: The documentation shall describe the method used to uniquely identify the configuration items.

ALC\_CMC.5.3C: The documentation shall justify that the acceptance procedures provide for an adequate and appropriate review of changes to all configuration items.

ALC CMC.5.4C: The CM system shall uniquely identify all configuration items.

ALC\_CMC.5.5C and ALC\_CMC.5.6C requires that the CM system provides automated measures so that only authorised changes are made to the configuration items.

ALC\_CMC.5.6C: The CM system shall support the production of the TOE by automated means.

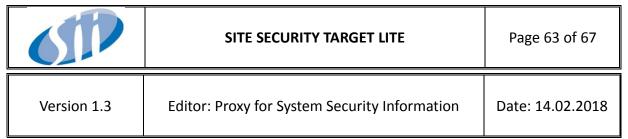
ALC\_CMC.5.7C: The CM system shall ensure that the person responsible for accepting a configuration item into CM is not the person who developed it.

ALC\_CMC.5.8C addresses the identification of the configuration items that comprise the TOE security functionality (TSF).

ALC\_CMC.5.9C requests the evidence by automated means of all changes to the TOE and supports the audit of all changes.

In addition ALC\_CMC.5.10C requests the evidence by automated means of all other configuration items affected by a change.

ALC\_CMC.5.11C: The CM system shall be able to identify the version of the implementation representation from which the TOE is generated. Additionally ALC\_CMC.5.15C: The evidence shall demonstrate that all configuration items are being maintained under the CM system.



ALC\_CMC.5.12C requires a CM documentation that includes a CM plan.

ALC\_CMC.5.13C requires that the CM plan describes how the CM system is used for the development (production) of the product.

ALC\_CMC.5.14C requires the description of the procedures used to accept modified or newly created configuration items as part of the TOE.

ALC\_CMC.5.15C requests evidence to demonstrate that all configuration items are being maintained under the CM system.

ALC\_CMC.5.16C requires that the evidence shall demonstrate that the CM system is operated in accordance with the CM plan.

ALC\_CMS.5.1C: The configuration list shall include the following: the TOE itself; the evaluation evidence required by the SARs; the parts that comprise the TOE; the implementation representation; security flaw reports and resolution status; and development tools and related information.

ALC\_LCD.1.1C: The life-cycle definition documentation shall describe the model used to develop and maintain the TOE.

ALC\_LCD.1.2C: The model shall provide for the necessary control over the development and maintenance of the TOE.

The combination of these Security Assurance Requirements is suitable to meet the objective.

#### O.Organise-Product

ALC\_CMC.5.6C: The CM system shall support the production of the TOE by automated means.

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.

ALC\_CMC.5.8C addresses the identification of the configuration items that comprise the TOE security functionality (TSF).

ALC\_CMC.5.9C requests the evidence by automated means of all changes to the TOE and supports the audit of all changes.

In addition ALC\_CMC.5.10C requests the evidence by automated means of all other configuration items affected by a change.

ALC\_CMC.5.13C requires that the CM plan describes how the CM system is used for the development (production) of the product.

6117	SITE SECURITY TARGET LITE	Page 64 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

ALC\_CMC.5.14C requires the description of the procedures used to accept modified or newly created configuration items as part of the TOE.

ALC\_LCD.1.1C: The documentation shall describe the model used to develop and maintain the TOE.

ALC\_LCD.1.2C: The model shall provide for the necessary control over the development and maintenance of the TOE.

ALC TAT.3.1C: Each development tool used for implementation shall be 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.

ALC\_TAT.3.3C: The documentation of each development tool shall unambiguously define the meaning of all implementation-dependent options.

Thereby the objective fulfils this combination of Security Assurance Requirements.

## O.Staff-Engagement

ALC\_DVS.2.1C requires the description of personnel security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation in its development environment.

The objective meets the set of Security Assurance Requirements.

## O.Internal-Shipment

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.

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.

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.

The objective meets the set of Security Assurance Requirements.

#### O.Transfer-Data

6117	SITE SECURITY TARGET LITE	Page 65 of 67
Version 1.3	Editor: Proxy for System Security Information	Date: 14.02.2018

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.

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.

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.

Thereby this objective is suitable to meet the Security Assurance Requirement.

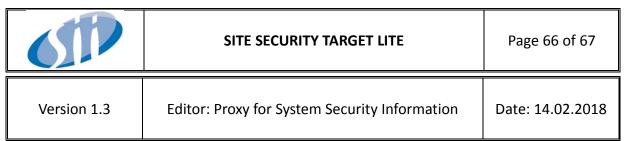
### 8.6 Mapping of the Evaluation Documentation

The mapping between the internal site documentation and the Security Assurance Requirements is only available within the full version of the Site Security Target.

#### 9 References

#### 9.1 Literature

- [1] Common Criteria for Information Technology Security Evaluation, Part 1: Introduction and General Model; Version 3.1, Revision 5, September 2012
- [2] Common Criteria for Information Technology Security Evaluation, Part 3: Security Assurance Requirements; Version 3.1, Revision 5, September 2012
- [3] Common Methodology for Information Technology Security Evaluation (CEM), Evaluation Methodology; Version 3.1, Revision 5, September 2012
- [4] Supporting Document, Site Certification, October 2007, Version 1.0, Revision 1, CCDB-2007-11-001
- [5] Site Security Target Template, June 2009, Version 1.0
- [6] Minimum Site Security Requirements, December 2017, Version 2.1
- [7] Security IC Platform Protection Profile with Augmentation Packages, Version 1.0, Eurosmart, 2014, BSI-CC-PP-0084-2014Related documents



[8] Guidance for Site Certification Version 1.1; 2013-12-04, Bundesamt für Sicherheit in der Informationstechnik

#### 9.2 Related documents

- [9] Life-cycle Support, ALC\_Sii\_v 1.6, Version 1.6
- [10] Sii Security Trainig, SII-Security-Training\_v1.5-HQ, Version 1.5

#### 9.3 Definition

None

#### 9.4 List of Abbreviations

- **BKC** Best Known Configuration
- **CRS Customer Requirement Specifications**
- **CAT Customer Acceptance Tests**
- CC Common Criteria
- IC Integrated Circuit
- OSP Organizational Security Policy
- SAR Security Assurance Requirement
- SDD Software Detailed Design
- SUTS Software Unit Test Specification
- SITS Software Integration Test Specification
- STS Software Test Specification
- SRS Software Requirement Specifications
- SE Software Engineer
- SW Software
- SST Site Security Target
- TOE Target of evaluation