

Thales Manufacturing at Benchmark Huntsville Site Security Target



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ACRONYMS AND ABBREVIATIONS

| Term | Definition |
|------|---|
| BEI | Benchmark Electronics, Inc |
| BEH | BEI Huntsville |
| CC | Common Criteria |
| CEM | Common Methodology for Information Technology Security Evaluation |
| CM | Configuration Management |
| CPL | Cloud Protection and Licensing |
| DIS | Digital Identity and Security |
| EAL | Evaluation Assurance Level |
| HR | Human Resources |
| HSM | Hardware Security Module |
| IT | Information Technology |
| MSSR | Minimum Site Security Requirements |
| OSP | Organizational Security Policy |
| SAR | Security Assurance Requirement |
| SST | Site Security Target |
| TOE | Target of Evaluation |

REFERENCES

[CC Part 1] Common Criteria for Information Technology Security Evaluation, Part 1: Introduction and general model, April 2017, Version 3.1, Revision 5

[CC Part 2] Common Criteria for Information Technology Security Evaluation, Part 2: Security functional components, April 2017, Version 3.1, Revision 5

[CC Part 3] Common Criteria for Information Technology Security Evaluation, Part 3: Security assurance components, April 2017, Version 3.1, Revision 5

[CEM] Common Methodology for Information Technology Security Evaluation, Evaluation methodology, April 2017, Version 3.1, Revision 5

[MSSR] Joint Interpretation Library Minimum Site Security Requirements, February 2020, Version 3.0.

[Site Certification] Supporting Document Guidance Site Certification, October 2007, Version 1.0, Revision 1.

Thales References

[ALC] Thales Manufacturing at Benchmark Huntsville Assurance Life Cycle, 18 July 2024, Rev C

[MSSR_Checklist] Thales Manufacturing at Benchmark Huntsville MSSR Checklist, 18 July 2024, Rev C

[HDLC] HSM Development Lifecycle, EC.ENG.2.0014, June 2022, Version 11.0

1 Site Security Target Introduction

This section of the Site Security Target (SST) introduction provides the SST Reference and the Site Reference.

1.1 SST Reference

| | |
|-----------|---|
| SST Title | Thales Manufacturing at Benchmark Huntsville Site Security Target |
| Version | Rev. F |
| Date | 18 July 2024 |
| Reference | 006-000697-001 |

1.2 Site Reference

| | |
|--------------|---|
| Company | Benchmark Electronics, Inc. (BEI) |
| Site Name | BEI Huntsville (BEH) |
| Site Address | 4807 Bradford Drive, Huntsville, Alabama, USA |

1.3 Site Description

1.3.1 Physical Scope

The physical scope of the site is the Thales manufacturing facilities located at the address specified in Section 1.2. This includes the following functional areas:

- Reception
- Supporting services (Human Resources (HR), Information Technology (IT))
- Thales manufacturing area

1.3.2 Logical Scope

The Thales manufacturing facilities at BEH are dedicated to product manufacturing and the associated supporting services, such as IT management, HR, shipping, receiving, and general site management. The following Hardware Security Module (HSM) manufacturing services are provided at this site:

- hardware manufacturing, from printed circuit boards to completed appliances, in accordance with specifications provided by Thales DIS CPL
- firmware and key materials are loaded onto devices
- devices are shipped to customers

2 Conformance Claim

This SST is conformant with Common Criteria (CC) 3.1 Rev. 5, specifically [CC Part 1] and [CC Part 3] and the evaluation methodology described in [CEM].

The SST is CC Part 3 conformant.

The evaluation of the site includes the following Security Assurance Components (SARs):

- ALC_CMC.4
- ALC_CMS.4
- ALC_DEL.1
- ALC_DVS.2
- ALC_LCD.1
- ALC_TAT.1

The selected assurance components are derived from the assurance level EAL4 augmented with ALC_DVS.2 from the Life-cycle Support assurance class. The site is intended to implement security measures effective against an attacker with high attack potential as defined in [CEM], consistent with product claims of AVA_VAN.5.

3 Security Problem Definition

The Security Problem Definition is comprised of the 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 of Target of Evaluation (TOE) products and the security management of the site.

3.1 Assets

The assets in Table 3-1 are handled at the site.

Table 3-1: Assets Handled at the Site

| Asset | Description |
|--------------------------------|---|
| Manufacturing Data | The site supports the maintenance of electronic information relating to the manufacture of Hardware Security Modules (HSMs), such as design and configuration management information. The integrity and confidentiality of this data must be protected. |
| Manufacturing Equipment | In support of manufacturing activities, the site maintains the manufacturing facilities and associated IT infrastructure that makes up the manufacturing environment. The integrity of these systems must be maintained. |
| Cryptographic Keying Materials | Keying material used in the manufacture of products is maintained at the site. The integrity and confidentiality of this material must be protected. |

3.2 Threats

The threats in Table 3-2 are countered by the security features of the site.

Table 3-2: Threats to the Security of the Site

| Threat | Description |
|----------------|--|
| T.Smart-Theft | An attacker attempts to access sensitive areas of the site for manipulation or theft of assets. The attacker has sufficient time to investigate the site from outside of the controlled boundary. The use of standard equipment for burglary is assumed for this attack. |
| T.Rugged-Theft | An experienced thief with specialized equipment for burglary, who may be paid to perform a targeted attack, attempts to access sensitive areas and manipulate or steal sensitive assets. |
| T.Computer-Net | A hacker with substantial expertise and standard equipment, who may be paid, attempts to remotely access sensitive network segments to get access to: <ul style="list-style-type: none"> • manufacturing data with the intention to violate confidentiality and possibly integrity; and/or • manufacturing systems and tools with the intention to compromise the manufacturing process. |

| Threat | Description |
|----------------------|---|
| T.Unauthorised-Staff | Employees or subcontractors are able to access sensitive assets for which they are not authorized access, and violate the confidentiality and/or the integrity of these assets. |
| T.Staff-Collusion | By obtaining support from an employee through extortion or bribery, an attacker attempts to access assets and to violate the confidentiality and/or the integrity of these assets. |
| T.Attack-Transport | An attacker attempts to access assets when the assets are physically shipped to or from the site. The attacker may access confidential information or violate the integrity of the product during the delivery process. |

3.3 Organizational Security Policies (OSPs)

The organizational security policies in Table 3-3 are countered by the security features of the site.

Table 3-3: Organizational Security Policies Addressed by the Site

| OSP | Description |
|-----------------|--|
| P.Config-Mgmt | The configuration management system shall be able to uniquely identify configuration items including parts and assemblies, design documentation, and guidance. The configuration management plan includes processes for change control that ensure that only authorized changes are made, and processes that ensure tracking and maintenance of development tools. |
| P.LifeCycle-Doc | The site follows the procedures outlined in the life cycle documentation which includes: <ul style="list-style-type: none"> • A description of the configuration management system and its usage; • A configuration items list; • Site security procedures; • A description of the manufacturing process; and • A description of the manufacturing tools. |

3.4 Assumptions

The assumptions in Table 3-4 are made for the operational environment associated with the site.

Table 3-4: Assumptions for the Site

| Assumption | Description |
|--------------------|---|
| A.Secure-Local-IT | IT systems including the network, servers, and workstations are managed by BEH according to Thales DIS CPL policies for Contract Manufacturers. |
| A.Project-Security | BEH personnel manage access to Thales data and materials according to Thales DIS CPL policies for Contract Manufacturers to ensure integrity and confidentiality. |

| Assumption | Description |
|---------------------|---|
| A.Trusted-Personnel | Staff assigned to the BEH site are deemed to be trustworthy. This includes all employees authorized to work on Thales projects. |

4 Security Objectives

This section describes the security objectives of the site. The security objectives address configuration management, delivery procedures, and physical, technical and organizational security measures. This section includes a Security Objectives Rationale. This rationale provides a tracing between the security objectives and the threats and OSPs described in Section 3. It also includes a justification describing how the threats and OSPs are effectively addressed by the security objectives.

4.1 Security Objectives of the Site

The Security Objectives of the Site are described in Table 4-1.

Table 4-1: Security Objectives of the Site

| Objective | Description |
|------------------|---|
| O.Alarm-Response | The technical and organizational security measures ensure that an alarm is generated before an unauthorized person is able to access sensitive configuration items. After the alarm is triggered, the unauthorized individual must overcome further security measures to access assets. The reaction time of the employees or guards is sufficiently short to prevent a successful attack. |
| O.Config-Control | The site adheres to procedures for tracking configuration items, including new product releases. The site has a process to manage and control changes to configuration items such that changes can be made by authorized personnel only. Automated systems support configuration management. |
| O.Config- Env | The site tracks and maintains manufacturing tools and procedures for their use. These tools are supported by IT systems. |
| O.Config-Items | The site maintains a configuration management system that maintains a unique identifier to each configuration item. The configuration management system is supported by procedures and guidance. |
| O.Control-Scrap | The site has measures in place to securely dispose of sensitive documentation, erase electronic media and destroy sensitive configuration items such that they cannot be used to support an attacker. |
| O.Delivery | Shipping procedures are established and followed to ensure the security of physically shipped items. |
| O.LifeCycle-Doc | The site follows the procedures outlined in the life cycle documentation which includes: <ul style="list-style-type: none"> • A description of the configuration management system and its usage; • A configuration items list; • Site security procedures; • A description of the manufacturing process; • A description of the governance and life-cycle processes; and • A description of the manufacturing tools. |

| Objective | Description |
|---------------------|--|
| O.Logical-Access | The site implements a firewall to enforce a logical separation between the internal network and the internet. The firewall ensures that only approved services and approved connections are accepted. Dedicated networks are physically separated to enforce access control. Access to sensitive networks and related systems is restricted to authorized employees who require access to perform assigned tasks. All users of the IT systems and applications have their own user accounts and passwords. Authentication is enforced by all computer systems. |
| O.Logical-Operation | All users must authenticate using their unique usernames and passwords. Access to more sensitive information and applications require multi-factor authentication. The IT infrastructure, including the manufacturing network systems, is properly maintained through the application of software updates, security patches, and malware protections. Backup data is protected in accordance with its classification. |
| O.Maintain-Security | Technical security measures are established and maintained to ensure site security. The logs related to the access of sensitive systems and data are reviewed. Review of the physical access control system ensures that only authorized employees have access to sensitive areas, and review of the computer/network systems ensure that they are configured as required to ensure the protection of sensitive data and applications. |
| O.Monitor | The Thales Security and Certifications team meets regularly with BEH facilities personnel. Meetings are typically held bi-weekly. These meetings are used to review security status. An audit is performed annually to verify the continued application of the security measures. |
| O.Physical-Access | Access to all areas of the site is controlled through the use of electronic badges. The access control measures ensure that only authorized employees can access restricted areas. Assets are handled in restricted areas only. The building perimeter is reinforced to prevent and detect unauthorized entry. |
| O.Staff-Engagement | All employees who have access to sensitive configuration items are subject to vetting regarding security concerns and are required to sign a non-disclosure agreement. All employees are appropriately trained and qualified for their assigned roles. |
| O.Transfer-Data | Sensitive electronic configuration items (data or documents in electronic form) are cryptographically protected to ensure confidentiality and integrity. |

4.2 Security Objectives Rationale

The Security Objectives Rationale traces the Security Objectives to the threats and OSPs that they address and provides a rationale that demonstrates that all threats and OSPs are effectively addressed by the Security Objectives.

Note that the assumptions do not contribute to the security of the site under evaluation, but describe pre-requisites for the site which are outside of the evaluation.

Table 4-2: Mapping of Threats and OSPs to Security Objectives

| Threats and OSPs | Objectives | Rationale |
|----------------------|---|---|
| T.Attack-Transport | O.Delivery O.Transfer-Data | O.Delivery ensures that physically shipped items are transferred in accordance with the appropriate policies. O.Transfer-Data ensures that the sensitive configuration items are protected when transferred electronically. |
| T.Computer-Net | O.Logical-Access O.Logical-Operation O.Maintain-Security O.Monitor O.Staff-Engagement | O.Logical-Access, O.Logical-Operation and O.Staff-Engagement prevent unauthorized access from the internal and external networks, and O.Monitor and O.Maintain-Security ensure application of these security measures. The threat is effectively mitigated by these objectives. |
| T.Rugged-Theft | O.Alarm-Response O.Maintain-Security O.Monitor O.Physical-Access | O.Physical-Access and O.Alarm-Response detect unauthorized access; O.Monitor and O.Maintain-Security ensure application of these security measures. The threat is effectively mitigated by these objectives. |
| T.Smart-Theft | O.Alarm-Response O.Maintain-Security O.Monitor O.Physical-Access | O.Physical-Access and O.Alarm-Response detect unauthorized access, and O.Monitor and O.Maintain-Security ensure application of these security measures. The threat is effectively mitigated by these objectives. |
| T.Staff-Collusion | O.Maintain-Security O.Monitor O.Staff-Engagement | O.Staff-Engagement ensures that staff are aware of their responsibilities. O.Monitor and O.Maintain-Security ensure implementation of the required security measures. The threat is effectively mitigated by these objectives. |
| T.Unauthorized-Staff | O.Alarm-Response O.Control-Scrap O.Logical-Access O.Logical-Operation O.Maintain-Security O.Monitor O.Physical-Access O.Staff-Engagement | O.Physical-Access, O.Alarm-Response, O.Logical-Access, O.Logical-Operation, O.Staff-Engagement and O.Control-Scrap prevent unauthorized access to assets, and O.Monitor and O.Maintain-Security ensure application of these security measures. The threat is effectively mitigated by these objectives. |
| P.Config-Mgmt | O.Config-Control O.Config-Env O.Config-Items | O.Config-Items ensures that the configuration management system uniquely identifies configuration items. O.Config-Control ensures the proper change control of configuration items. O.Config-Env ensures the tracking and maintenance of manufacturing tools. |
| P.LifeCycle-Doc | O.LifeCycle-Doc | O.LifeCycle-Doc directly enforces P.LifeCycle-Doc. |

5 Extended Components Definition

No extended assurance components are defined for this SST.

6 Security Assurance Requirements

Product evaluations referencing this Site Security Target will be at Evaluation Assurance Level (EAL) 4+.

The Security Assurance Requirements (SARs) claimed in this SST are:

- CM¹ Capabilities (ALC_CMC.4)
- CM Scope (ALC_CMS.4)
- Delivery (ALC_DEL.1)
- Development Security (ALC_DVS.2)
- Life-cycle Definition (ALC_LCD.1)
- Tools and Techniques (ALC_TAT.1)

These SARs fulfil the requirements of [Site Certification] as follows:

- ALC_CMC.4 is hierarchically higher than ALC_CMC.1 and therefore fulfills the minimum requirement for ALC_CMC.
- ALC_CMS.4 is hierarchically higher than ALC_CMS.3 and therefore fulfills the minimum requirement for ALC_CMS.
- ALC_DVS.2 is hierarchically higher than ALC_DVS.1 and therefore fulfills the minimum requirement for ALC_DVS.
- The additional SARs (ALC_DEL.1, ALC_LCD.1 and ALC_TAT.1) are from the ALC class.

6.1 Application Notes and Refinements

[Site Certification] describes the procedures for evaluating a site in the absence of a Target of Evaluation (TOE) product. The subject of the evaluation is the process for the handling of intended TOE products, rather than the TOE itself. The evaluation procedures are further refined by the following application notes as follows:

- CM Capabilities
 - See [Site Certification], Section 5.1, 'Application Notes for ALC_CMC', for the relevant application notes.
- CM Scope
 - See [Site Certification], Section 5.2, 'Application Notes for ALC_CMS', for the relevant application notes.
- Delivery
 - See [Site Certification], Section 5.3, 'Application Notes for ALC_DEL', for the relevant application notes.

¹ Configuration Management

- Development Security
 - See [Site Certification], Section 5.4, 'Application Notes for ALC_DVS', for the relevant application notes.
- Life-cycle Definition
 - See [Site Certification], Section 5.6, 'Application Notes for ALC_LCD', for the relevant application notes.
- Tools and Techniques
 - See [Site Certification], Section 5.7, 'Application Notes for ALC_TAT', for the relevant application notes.

6.2 Security Assurance Rationale

The Security Assurance Rationale maps the content elements of the selected assurance components to the Security Objectives defined in this SST. The refinements described in [Site Certification] have been considered.

Table 6-1: ALC_CMC.4 Rationale

| SAR | Objective | Rationale |
|---|---|--|
| ALC_CMC.4.1C (Refined): The CM documentation shall show that a process is in place to ensure an appropriate and consistent labelling. | O.Config-Control O.Config-Items | The TOE is labelled with its unique reference by the configuration management system (O.Config-Items, O.Config-Control). Appropriate and consistent labelling is ensured through the use of the configuration management system (O.LifeCycle-Doc). |
| ALC_CMC.4.2C: The CM documentation shall describe the method used to uniquely identify the configuration items. | O.Config-Control O.Config-Items O.LifeCycle-Doc | The method used to uniquely identify the configuration items is described in the configuration management documentation (O.LifeCycle-Doc). Each item is assigned a unique identifier (O.Config-Items). The configuration items are tracked throughout the life-cycle (O.Config-Control). |
| ALC_CMC.4.3C: The CM system shall uniquely identify all configuration items. | O.Config-Items | All configuration items are uniquely identified by the configuration management system (O.Config-Items). |

| SAR | Objective | Rationale |
|--|--|--|
| ALC_CMC.4.4C: The CM system shall provide automated measures such that only authorized changes are made to the configuration items. | <ul style="list-style-type: none"> O.Config-Control O.Config-Items O.LifeCycle-Doc O.Logical-Access O.Logical-Operation | The configuration management system is used in accordance with the documented processes (O.LifeCycle-Doc). The configuration management system provides automated measures such that only authorized change are made to the configuration items (O.Config-Control). Access is controlled such that only authorized users may make changes (O.Logical-Access). Authentication is necessary to get access to the system (O.Logical-Operation). The configuration management system manages all relevant assets (O.Config-Items). |
| ALC_CMC.4.5C: The CM system shall support the production of the TOE by automated means. | <ul style="list-style-type: none"> O.Config-Env O.LifeCycle-Doc | The site provides automated tools for manufacturing (O.Config-Env) and procedures for their use (O.LifeCycle-Doc). |
| ALC_CMC.4.6C: The CM documentation shall include a CM plan. | <ul style="list-style-type: none"> O.Config-Items O.LifeCycle-Doc | The configuration management plan is described in the Life-cycle documentation (O.LifeCycle-Doc). The configuration management system is supported by documentation (O.Config-Items). |
| ALC_CMC.4.7C: The CM plan shall describe how the CM system is used for the development of the TOE. | <ul style="list-style-type: none"> O.Config-Items O.LifeCycle-Doc | The configuration management plan is described in the Life-cycle documentation (O.LifeCycle-Doc). The configuration management system is supported by documentation (O.Config-Items). |
| ALC_CMC.4.8C: The CM plan shall describe the procedures used to accept modified or newly created configuration items as part of the TOE. | <ul style="list-style-type: none"> O.Config-Control O.LifeCycle-Doc | The acceptance procedures for modified and newly created configuration items are described in the Life-cycle documentation (O.Config-Control, O.LifeCycle-Doc). |
| ALC_CMC.4.9C: The evidence shall demonstrate that all configuration items are being maintained under the CM system. | <ul style="list-style-type: none"> O.Config-Items O.LifeCycle-Doc | The configuration items are listed in the Life-cycle documentation (O.LifeCycle-Doc). The site maintains an automated configuration management system (O.Config-Items). |
| ALC_CMC.4.10C: The evidence shall demonstrate that the CM system is being operated in accordance with the CM plan. | <ul style="list-style-type: none"> O.Config-Control O.Config-Env O.Config-Items O.LifeCycle-Doc | The configuration list (O.LifeCycle-Doc) is generated from the configuration management system (O.Config-Control, O.Config-Env, O.Config-Items). |

Table 6-2: ALC_CMS.4 Rationale

| SAR | Objective | Rationale |
|--|--|--|
| ALC_CMS.4.1C: 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; and security flaw reports and resolution status. | O.LifeCycle-Doc | The configuration list (O.LifeCycle-Doc) includes the required items. |
| ALC_CMS.4.2C: The configuration list shall uniquely identify the configuration items. | O.Config-Items | The configuration management system assigns a unique identifier to each configuration item (O.Config-Items). |
| ALC_CMS.4.3C: For each TSF relevant configuration item, the configuration list shall indicate the developer of the item. | O.Config-Control O.Config-Env O.Config-Items | The configuration management system (O.Config-Control, O.Config-Env, O.Config-Items) indicates the developer of each configuration item. |

Table 6-3: ALC_DEL.1 Rationale

| SAR | Objective | Rationale |
|---|--|---|
| ALC_DEL.1.1C: The delivery documentation shall describe all procedures that are necessary to maintain security when distributing versions of the TOE to the consumer. | O.Delivery O.LifeCycle-Doc O.Transfer-Data | Shipping procedures ensure the security of physically shipped items (O.Delivery). Sensitive electronic configuration items are encrypted when transmitted electronically (O.Transfer-Data). Procedures are described in the Life-cycle documentation (O.LifeCycle-Doc). |

Table 6-4: ALC_DVS.2 Rationale

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

| SAR | Objective | Rationale |
|---|-----------------|--|
| ALC_DVS.2.2C: The development security documentation shall justify that the security measures provide the necessary level of protection to maintain the confidentiality and integrity of the TOE. | O.LifeCycle-Doc | The documentation (O.LifeCycle-Doc) justifies that the security measures provide the necessary level of protection to maintain the confidentiality and integrity of the TOE. |

Table 6-5: ALC_LCD.1 Rationale

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

Table 6-6: ALC_TAT.1 Rationale

| SAR | Objective | Rationale |
|---|-----------------|--|
| ALC_TAT.1.1C: Each development tool used for implementation shall be well-defined. | O.LifeCycle-Doc | The Life-cycle documentation (O.LifeCycle-Doc) describes the development/manufacturing tools used for implementation, ensuring that they are well defined. |
| ALC_TAT.1.2C: The documentation of each development tool shall unambiguously define the meaning of all statements as well as all conventions and directives used in the implementation. | O.LifeCycle-Doc | The Life-cycle documentation (O.LifeCycle_Doc) provides sufficient guidance on statements, conventions and directives used in the implementation. |
| ALC_TAT.1.3C: The documentation of each development tool shall unambiguously define the meaning of all implementation-dependent options. | O.LifeCycle-Doc | The Life-cycle documentation (O.LifeCycle-Doc) provides sufficient guidance on implementation-dependent options. |

7 Site Summary Specification

7.1 Preconditions Required by the Site

Table 7-1 summarizes the preconditions that must be met to ensure the security measures of the site in order to protect its assets.

Table 7-1: Site Preconditions

| Precondition | Assumption |
|---|---------------------|
| IT personnel provide the necessary systems engineering support to the site in order to design, implement and maintain the IT infrastructure required by the BEH team to perform TOE manufacturing activities. | A.Secure-Local-IT |
| Account setup, access permissions, access to tools and direction for their use is fully under BEH control and performed in accordance with applicable Thales policies. | A.Project-Security |
| Personnel have been trained and have acknowledged responsibilities for maintaining security. | A.Trusted-Personnel |

7.2 Services of the Site

BEH is a manufacturing site. Services include hardware manufacturing, loading of firmware and key materials onto hardware, and shipping devices to customers. Site support services include HR, IT management, shipping, receiving, and general site management.

7.3 Site Summary Specification

The Site Summary Specification identifies the evidence that demonstrates that the Site meets the SARs, and describes aspects of how the Site meets the SARs. The full title, date and version of the references are found on Page 6 of this document.

Table 7-2: ALC_CMC.4 Summary

| SAR | Met By | Evidence |
|---|--|-------------------|
| ALC_CMC.4.1C (Refined): The CM documentation shall show that a process is in place to ensure an appropriate and consistent labelling. | The configuration management system ensures unique identification of every configuration item. | [ALC] Section 2.1 |
| ALC_CMC.4.2C: The CM documentation shall describe the method used to uniquely identify the configuration items. | The configuration management documentation describes the method used to identify the configuration items. | [ALC] Section 2.1 |
| ALC_CMC.4.3C: The CM system shall uniquely identify all configuration items. | All configuration items are uniquely identified by the configuration management system in which they are maintained. | [ALC] Section 2.1 |

| SAR | Met By | Evidence |
|--|--|--------------------------------------|
| ALC_CMC.4.4C: The CM system shall provide automated measures such that only authorized changes are made to the configuration items. | Access is restricted to the configuration management system based on role. Users must be identified and authenticated prior to gaining access. Procedures ensure that changes are reviewed and approved prior to acceptance. | [ALC] Section 2.2 |
| ALC_CMC.4.5C: The CM system shall support the production of the TOE by automated means. | The site provides automated tools for manufacturing and configuration management. | [ALC] Section 2.1 |
| ALC_CMC.4.6C: The CM documentation shall include a CM plan. | The configuration management plan is described in the Life-cycle documentation. | [ALC] Sections 2, 3 |
| ALC_CMC.4.7C: The CM plan shall describe how the CM system is used for the development of the TOE. | The configuration management plan is described in the Life-cycle documentation. It describes how the CM system is used in the manufacture of HSM products. | [ALC] Section 2 |
| ALC_CMC.4.8C: The CM plan shall describe the procedures used to accept modified or newly created configuration items as part of the TOE. | The acceptance procedures for modified and newly created configuration items are described in the Life-cycle documentation. | [ALC] Section 2.2.3 |
| ALC_CMC.4.9C: The evidence shall demonstrate that all configuration items are being maintained under the CM system. | The configuration items are listed in the Life-cycle documentation. The site maintains an automated configuration management system that can provide a Bill of Materials for each device. | [ALC] Section 2, 3, 7 |
| ALC_CMC.4.10C: The evidence shall demonstrate that the CM system is being operated in accordance with the CM plan. | Evidence will be provided during the site visit. | To be provided during the site visit |

Table 7-3: ALC_CMS.4 Summary

| SAR | Met By | Evidence |
|--|--|-----------------|
| ALC_CMS.4.1C: 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; and security flaw reports and resolution status. | The configuration list includes the required items. | [ALC] Section 7 |
| ALC_CMS.4.2C: The configuration list shall uniquely identify the configuration items. | Each configuration item is assigned a unique identifier. | [ALC] Section 7 |

| SAR | Met By | Evidence |
|--|--|-----------------|
| ALC_CMS.4.3C: For each TSF relevant configuration item, the configuration list shall indicate the developer of the item. | The configuration list indicates the developer of each configuration item. | [ALC] Section 7 |

Table 7-4: ALC_DEL.1 Summary

| SAR | Met By | Evidence |
|---|--|-----------------|
| ALC_DEL.1.1C: The delivery documentation shall describe all procedures that are necessary to maintain security when distributing versions of the TOE to the consumer. | Delivery procedures are described in the Life-cycle documentation. | [ALC] Section 4 |

Table 7-5: ALC_DVS.2 Summary

| SAR | Met By | Evidence |
|---|---|-------------------------------------|
| 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. | The development security documentation describes all the physical, procedural, personnel, and other security measures that are necessary to protect the confidentiality and integrity of the TOE design and implementation. | [ALC] Section 5 [MSSR_Checklist] |
| 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. | The development security documentation justifies that the security measures provide the necessary level of protection to maintain the confidentiality and integrity of the TOE. Procedures are consistent with mitigating the risk of an attacker with a high attack potential. | [ALC] Section 5 [MSSR_Checklist] |

Table 7-6: ALC_LCD.1 Summary

| SAR | Met By | Evidence |
|---|--|--------------------|
| ALC_LCD.1.1C: The life-cycle definition documentation shall describe the model used to develop and maintain the TOE. | The Life-cycle documentation describes the model used to develop and maintain the TOE. | [HDLC] |
| ALC_LCD.1.2C: The life-cycle model shall provide for the necessary control over the development and maintenance of the TOE. | The Life-cycle documentation describes the governance that provides for the necessary control over the development and maintenance of the TOE. | [HDLC] Section 3.3 |

Table 7-7: ALC_TAT.1 Summary

| SAR | Met By | Evidence |
|--|---|-----------------|
| ALC_TAT.1.1C: Each development tool used for implementation shall be well-defined. | The Life-cycle documentation describes the development tools used for implementation, ensuring that they are well defined. | [ALC] Section 6 |
| ALC_TAT.1.2.C: 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. | The Life-cycle documentation provides sufficient guidance on statements, conventions and directives used in the implementation. | [ALC] Section 6 |
| ALC_TAT.1.3C: The documentation of each development tool shall unambiguously define the meaning of all implementation-dependent options. | The Life-cycle documentation provides sufficient guidance on implementation-dependent options. | [ALC] Section 6 |