DATA ITEM DESCRIPTION

1. DID NUMBER: DID-ENG-SOL-PSecDD-V5.3
2. TITLE: PHYSICAL SECURITY DESIGN DOCUMENT (PSECDD)
3. DESCRIPTION AND INTENDED USE

The Physical Security Design Document (PSecDD) sets out how the design of the Mission System implements the physical security requirements and guidance contained in:

the System Specification (SS) for each different type of Mission System;

the applicable documents identified at clause 5.1; and

any other applicable physical security standards, as determined by the Contractor.

Notes:

* The earlier version(s) of the PSecDD describe the design approach to satisfy the physical security requirements, while the later version(s) set out the record of the actual implementation of the design to provide one of the artefacts required for Security Authorisation(s) for the physical security for the Mission System.
* The Contractor prepares the PSecDD under guidance from the Commonwealth Representative, and the Commonwealth submits the document to the relevant authority(ies) in support of the required Security Authorisation(s) for the physical security of the Mission System.

The Contractor uses the PSecDD as one of the physical security artefacts:

to detail the design approaches to be used, or that have been used, to address the physical security requirements as they apply to the Mission System;

to advise the Commonwealth and the associated Security Authorisation authority(ies) for the physical security of the design solution used to address the physical security requirements for the Mission System, including those physical security requirements needed for Information and Communications Technology (ICT) security and cyber security; and

to provide assurance to the Commonwealth that the Contractor’s system security program will enable the physical security requirements for the Mission System to be achieved.

The Commonwealth uses the PSecDD:

to gain assurance that physical security considerations are taken into account during the design and implementation of the Mission System;

to understand and evaluate the Contractor’s approach to meeting the physical security requirements for the Mission System as part of the system security program;

to identify and understand the Commonwealth’s involvement in the Contractor’s physical security program, including the monitoring of the Contractor’s program; and

as one of the suite of physical security artefacts provided to the relevant Defence authorities as part of obtaining the required Security Authorisation(s) for physical security for the Mission System.

1. INTER-RELATIONSHIPS

The PSecDD is subordinate to the following data items, where these data items are required under the Contract:

Systems Engineering Management Plan (SEMP);

Contractor Engineering Management Plan (CEMP);

Materiel System Security Management Plan (MSSMP);

In‑Service Security Management Plan (ISSMP); and

ADF regulatory / assurance plans.

The PSecDD inter-relates with the following data items, where these data items are required under the Contract:

SS for each different type of Mission System;

System Architecture Description (SAD);

the security-related data items required under the Contract (other than those identified under clause 4.1);

Mission System Technical Documentation Tree (MSTDT); and

the Verification and Validation (V&V) data items required under the Contract (eg, V&V Plan (V&VP), Verification Cross Reference Matrix (VCRM), and Acceptance Test Reports (ATRs)).

1. APPLICABLE DOCUMENTS

Note to drafters: Amend the reference documents to suit the requirements of the Contract.

The following documents form a part of this DID to the extent specified herein:

|  |  |
| --- | --- |
| 1. Governing Security Documents | 1. (see the Glossary for the definition of this term) |
|  | 1. Physical Security Standards – HMA Ships, Submarines & Watercraft, Version 4.0, 17Dec20 |

1. PREPARATION INSTRUCTIONS
   1. Generic Format and Content

The data item shall comply with the general format, content and preparation instructions contained in the CDRL clause entitled ‘General Requirements for Data Items’.

The data item shall include a traceability matrix that defines how each specific content requirement, as contained in this DID, is addressed by sections within the data item.

* 1. Specific Content
     1. Introduction

The PSecDD shall provide a brief overview of the Mission System, including its purpose.

The PSecDD shall describe the purpose, scope and objectives of the PSecDD, including identifying the information required by the Security Authorisation authority(ies) in support of the required Security Authorisation(s) for physical security for the Mission System.

The PSecDD shall describe the constraints and assumptions associated with the PSecDD, including in relation to the design and implementation of the physical security requirements.

The PSecDD shall set out any conventions used throughout the document to satisfy the requirements of this DID.

* + 1. Physical Security Threat and Risk Assessment

The PSecDD shall set out the physical security threat and risk assessment for the Mission System, as determined in accordance with the processes set out in the Approved MSSMP.

* + 1. General Requirements

The PSecDD shall provide a summary of the physical security requirements to be met by the Mission System, including:

the requirements contained in the Mission System SS;

the requirements derived from the applicable documents identified at clause 5.1;

the physical security threat and risk assessment pursuant to clause 6.2.2 of this DID; and

any other requirement sources used by the Contractor.

The PSecDD shall:

identify all elements of the Mission System’s design that have a bearing on physical security for the Mission System;

provide an assessment on a building-by-building, room-by-room and/or compartment-by-compartment (as applicable) assessment of the physical security design requirements for the Mission System; and

summarise all identified security considerations.

* + 1. Design Description

The PSecDD shall describe the design of the Mission System to satisfy the physical security requirements of the Mission System identified pursuant to clause 6.2.3.1 of this DID, including:

an overview of the design philosophy employed;

details of the physical security design for each of the Mission System buildings/rooms/compartments, including construction details;

details on the physical security design associated with following specific subjects:

weapons and deployable systems;

Digitally Enabled Systems and Equipment (DESE) and associated networks (eg, to prevent tampering and mitigate cyber-related risks);

drugs and medical supplies;

classified materials, including documentation and equipment;

cash and valuables;

attractive areas (ie, attractive targets for theft, misuse or unauthorised access);

key management containers;

safes; and

security hardware; and

any other information required by the Security Authorisation authority(ies) to achieve the required Security Authorisation(s) for physical security.

The design description shall include drawings, scenarios of operation, and any other materials needed to set out the physical security design of the Mission System so that the Security Authorisation authority(ies) can properly assess the Mission System as designed.

* + 1. Physical Security Implementation

After construction of the Mission System is complete and as required by the CDRL, the PSecDD shall describe the actual implementation to satisfy the physical security requirements, including:

the implementation details associated with the items identified under clause 6.2.4 of this DID; and

the Verification and Validation results that confirm that the physical security requirements identified pursuant to clause 6.2.3.1 of this DID have been satisfied.

Note: At this time, the PSecDD may be renamed to “Physical Security Design Record (PSecDR)”.

The implementation description shall include any issues that may have arisen due to changes to the physical security requirements that have changed since the design and construction baselines were established.

The implementation description shall include drawings, photographs, and any other materials needed to set out the actual physical security implementation details for the Mission System so that the Security Authorisation authority(ies) can properly assess the Mission System as built.

* + 1. Physical Security Data Pack

This PSecDD shall identify the Engineering Design Data files (eg, three-dimensional modelling and computer-aided design data) for the systems and equipment installed into the Mission System, which document how the Mission System complies with the physical security requirements.