DATA ITEM DESCRIPTION

1. DID NUMBER: -
2. TITLE: FACILITIES Requirements analysis report
3. DESCRIPTION and intended use

The Facilities Requirements Analysis Report (FRAR) describes the detailed requirements for all of the Commonwealth Facilities, including recommended works requirements, to enable the Mission System and the Support System to be operated and supported over the Life-of-Type of the Mission System. The Commonwealth and the Contractor use the FRAR as the basis for a common understanding of the requirements for Commonwealth Facilities.

The Contractor uses the FRAR to document the outcomes of its Facilities requirements analyses for new Commonwealth Facilities to be constructed by either the Commonwealth or the Contractor, and/or existing Commonwealth Facilities to be modified by either the Commonwealth or the Contractor (or both).

The Commonwealth uses the FRAR to:

assist with the evaluation of the Contractor’s designs for both the Mission System and the Support System;

understand, evaluate and monitor the Contractor’s scope of work under the Contract with respect to Facilities;

identify and understand the Commonwealth’s scope of work with respect to Facilities; and

finalise the scope and scheduling of the respective development and implementation activities for new or to-be-modified Commonwealth Facilities for which either the Contractor, the Commonwealth or both parties have responsibility.

1. INTER-RELATIONSHIPS

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

Integrated Support Plan (ISP); and

Site Installation Plan (SIP).

1. Applicable Documents

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

|  |  |
| --- | --- |
| 1. Nil. |  |

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’.

When the Contract has specified delivery of another data item that contains aspects of the required information, the FRAR should summarise these aspects and refer to the other data item.

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. General

The FRAR shall provide sufficient detail to enable the Commonwealth to:

be assured that, where Commonwealth Facilities are mandated under the Contract, those Facilities will be suitable for the Contractor’s proposals for the new Mission System and Support System;

understand the full scope of the requirements for Commonwealth Facilities, for the new Mission System and Support System; and

translate the FRAR into construction bid packages that will build or modify Facilities to be compatible with the new Mission System and the Support System.

The FRAR shall include a full description of the required Facilities including recommendations, accompanied by drawings, specifications, and sketch plans, for new Commonwealth Facilities and for existing Commonwealth Facilities to be modified.

* + 1. Requirements Analysis

The FRAR shall provide details of the analysis process used to develop the FRAR (highlighting any differences from the analysis described in the Approved ISP), including:

a description of the methodology employed;

identification of the data sources used;

identification of the key assumptions on which the analysis is based; and

sample calculations (if relevant).

The analysis shall include Facilities requirements specifically pertaining to existing or planned Commonwealth Facilities located at all operational and logistic support locations.

* + 1. Facilities Details

For each of the Facilities requirements identified, the FRAR shall include specific assessments, and justification for those assessments, of the:

space / room requirements;

equipment and Personnel needed to operate and support the Mission System and Support System, as applicable, in the applicable Facility;

installation requirements for items of equipment that are part of the Mission System and Support System, as applicable (cross-referencing the SIP, if available);

intended use of the Defence Wide Area Network (WAN) or of leased data links, in terms of bandwidth and peak capacity requirements;

power requirements, including anticipated peak loads, reasonable allowances for growth, earthing, and equipment susceptibility to spikes in the power supply;

air conditioning requirements considering working conditions, ventilation and heat generation from plant;

equipment-specific cooling requirements (eg, water cooling), which are in addition to the air conditioning requirements and which are recommended to be provided as part of the Facilities;

lighting requirements;

floor loading requirements;

floor levelling requirements where there are, for example, process-specific requirements for particular tolerances in the floor levels;

Work Health and Safety issues and safety risk management provisions;

facilities for achieving a suitable work environment, as may be described by a code of practice approved under section 274 of the *Work Health and Safety Act 2011* (Cth), *Managing the Work Environment and Facilities*;

noise insulation requirements;

mechanical constraints, if any;

facility-specific fire detection / suppression systems;

access requirements for equipment (eg, vehicle loading docks) and personnel;

personnel access control and physical security requirements;

emanations security and cyber security requirements;

Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC);

storage requirements, including shelving / racking recommendations;

dust control / clean room requirements;

compressed air requirements;

water supply and extraction / sewerage requirements;

trade waste generation and extraction removal requirements; and

recommendations for energy and water efficiency.

For each of the Facilities identified in the Contract that will be modified for, or provided by, the Commonwealth, the FRAR shall include the Contractor’s schedule recommendations with respect to the required works.

* + 1. Contractor Facilities required for in-service support

If the SOW requires the Contractor to address Facilities for the Contractor and/or related parties, in order to provide in-service support, the FRAR shall:

identify and briefly describe the significant Facilities (ie, Facilities that must be built or specifically modified to enable in-service support);

summarise how these Facilities were analysed; and

identify the key points that make these Facilities significant (eg, in terms of size, cost or specialised plant or equipment that needed to be included in the Facility).

* 1. Annexes

Annexes shall be used, as required, to record requirements and document plans for individual Facilities.