DATA ITEM DESCRIPTION

1. DID NUMBER: -
2. TITLE: Requirements Traceability Matrix
3. Description And Intended Use

The Requirements Traceability Matrix (RTM) describes the Contractor’s traceability along design rationale for modifications between specifications and related documents that define the system.

The Contractor uses the RTM to provide bi-directional traceability between requirements specifications at different levels within the system hierarchy.

The Commonwealth uses the RTM to evaluate the completeness of the Contractor’s design solution and to assess the impact of any changes.

1. INTER-RELATIONSHIPS

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

Systems Engineering Management Plan (SEMP); and

Integrated Support Plan (ISP).

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

System Specification (SS) for each Mission System;

Support System Specification (SSSPEC); and

Verification Cross Reference Matrix (VCRM).

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’.

This DID may be satisfied by an electronic database in a format agreed with the Commonwealth Representative.

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 RTM shall show the traceability of requirements from the Contract and other source documents to the System Specification and lower levels of the specification hierarchy.

The RTM shall be a Contract-wide repository and include requirements from both Contractor and Subcontractors.

Note: The RTM may be related to the VCRM (ie, either the RTM uses the same database as the VCRM or they are produced from a common data source).

The RTM shall clearly explain the format and terminology used for the data of the RTM.

The RTM shall identify for each requirement:

a unique and unmodifiable identifier for the requirement;

the architectural element (CI or interface) to which the requirement belongs;

the document and paragraph number of the requirement;

the derivation, or reference to the design record that records the derivation, for the requirement from its parent where the requirement has a parent within the database; and

other attributes as identified by the design process.

The RTM shall identify parent-child and child-parent links that provide the rationale and unambiguous traceability for all requirements.

The RTM shall show the parent-child and child-parent traceability through multiple levels of the design hierarchy to assess the impact of potential specification changes.

Where the RTM is provided in electronic format it shall be accompanied with user documentation showing the operation, the data relationships and interpretation of all data fields.