DATA ITEM DESCRIPTION

1. DID NUMBER: DID-V&V-DEF-VCRM-V5.3
2. TITLE: Verification Cross Reference Matrix
3. DESCRIPTION and intended use

The Verification Cross-Reference Matrix (VCRM) is used to plan, and record the results of, the Contractor’s Verification activities.

The Contractor and the Commonwealth use the VCRM as the basis for common understanding and status of the Verification of requirements for each Mission System and the Support System.

1. INTER-RELATIONSHIPS

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

Verification & Validation Plan (V&VP); and

Systems Engineering Management Plan (SEMP).

The VCRM 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

Requirements Traceability Matrix (RTM).

1. Applicable Documents

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

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’.

* 1. Specific Content
     1. General

The VCRM is expected to be an evolving document, which is used during the analysis and design phases of the program to capture agreement on the Verification program, and during the Verification phases to capture the ongoing status of the system with respect to Verification and Validation (V&V).

The VCRM is likely to be based in electronic form (eg, database or spreadsheet), but when printed, shall consist of a table with an entry for every requirement in the Functional Baseline(s).

The Commonwealth only requires the VCRM in order to manage Verification against the Functional Baseline(s); however, the Contractor may choose to include other levels of specification within the same document. In this case, the VCRM shall:

identify which entries pertain to the Verification of the Functional Baseline(s); and

where Verification results from lower levels of the system hierarchy are proposed to be used as evidence for Verification against a Functional Baseline, provide traceability between the applicable lower levels of the system and the Functional Baseline.

* + 1. Part 1 Requirements

For delivery of the Part 1 VCRM requirements, each entry in the VCRM table shall contain at least:

a unique reference to the corresponding requirement in the Functional Baseline(s);

the requirement words or a brief precis of the requirement to provide context;

the proposed Verification method(s) (ie, one or more of inspection, demonstration, analysis, test, simulation, modelling, experiment, trial, walk-through, comparison, System Review, Audit, historical data and certification of conformance);

the phase during which the requirements will be Verified and the associated Verification method to be applied at this phase; noting that, where Verification across multiple phases may be proposed, the scope and aims of the activities at each phase must be clearly described;

a brief description of the proposed Verification method, intended as a vehicle for early agreement by both parties to define the scope of the Verification activities; and

other comments as required.

* + 1. Part 2 Requirements

For delivery of the Part 2 VCRM requirements, each entry in the VCRM table shall contain at least:

the Part 1 requirements specified at clause 6.2.2 of this DID;

a reference to the specific Verification / test procedure(s) and relevant documentation, including unique version identifiers;

a reference to the report which contains the pertinent Verification results and, as required, data analysis (including any red-line mark-ups and signatures of witnesses to those results);

the progressive status of each phase of the Verification program with respect to the requirement;

a result summary (ie, PASS/FAIL or Verification incomplete if all of the Verification activities associated with the requirement have not been completed); and

other comments as required.