

TENDER DATA ITEM DESCRIPTION

1. **DID NAME: TDID-FIN-LCC-TLCCM-V2.3**
 2. **TITLE: TENDER LIFE CYCLE COST MODEL (TLCCM)**
 3. **DESCRIPTION AND INTENDED USE**
 - 3.1 The Tender Life Cycle Cost Model (TLCCM) provides:
 - a. the details associated with the tendered Life Cycle Cost (LCC) model, and
 - b. the data files for the LCC model.
 - 3.2 The Commonwealth will use the TLCCM to evaluate the total cost of ownership and associated LCC risks and drivers for the tenderer's proposed solutions for the Mission System and Support System.
 4. **INTER-RELATIONSHIPS**
 - 4.1 Nil.
 5. **APPLICABLE DOCUMENTS**

Nil.
 6. **PREPARATION INSTRUCTIONS**
 - 6.1 **Generic Format and Content**

 - 6.1.1 The data item shall comply with the general format, content and preparation instructions contained in the Draft CDRL clause entitled "General Requirements for Data Items".
 - 6.2 **Specific Content**

 - 6.2.1 **General**
 - 6.2.1.1 The TLCCM shall provide sufficient detail to enable the Commonwealth to understand the LCC model developed by the tenderer.
- Note to drafters: The software tool or software, which the tenderer is required to utilise to develop its LCC Model, needs to be inserted into the following clause.**
- 6.2.1.2 The LCC data files shall be in a format required by the selected LCC software package.
 - 6.2.1.3 The content of the LCC data files shall be as tailored at annex A to this TDID.
 - 6.2.2 **LCC Model Development**
 - 6.2.2.1 The TLCCM shall describe the LCC model that has been developed by the tenderer as part of its tender response, including:
 - a. definitions of all terms, acronyms, and model parameters used;
 - b. any assumptions underpinning, or limitations with, the LCC model, including:
 - (i) the scope of the Mission System that has been modelled, including the indenture level of the physical build structure for the Mission System;
 - (ii) the modelling of the operational concepts and the Life-Of-Type (LOT) for the Mission System (as documented in the Operational Concept Document (OCD));
 - (iii) the modelling of software life-cycle costs; and
 - (iv) the modelling of the Support System; and

- c. the input data used to build the LCC model, including:
 - (i) the source of the data;
 - (ii) the date that the data was first generated;
 - (iii) if the data is an estimate, the nature of the estimate;
 - (iv) the source currency of the cost data and the exchange rates utilised to bring the cost data into a common currency;
 - (v) the base year of each cost element and the factors utilised to bring each cost element into a common base year; and
 - (vi) the justification for the use of the data. Examples of the data that should be justified include cost data, Turn-Around Time (TAT) data, Administration and Logistics Delay Time (ALDT) data, and reliability and maintainability data.

6.2.3 LCC Analysis and Recommendations

6.2.3.1 The TLCCM shall describe the outcomes of LCC analysis activities that have been undertaken by the Contractor, including details of:

- a. the LCC drivers that have been identified, and
- b. the analyses of these LCC drivers that have been undertaken.

6.2.3.2 The TLCCM shall describe any proposed alternatives for either the Mission System or the Support System (or both) that:

- a. address the identified LCC drivers; or
- b. reduce LCC.

These alternatives may be presented as Tenderer Initiated Options (TIOs) if a change to the tendered price is involved; however, the financial information associated with these TIOs shall be provided in the Financial Volume of the tender response.

Note to tenderers: The intent of the preceding clause is to capture those alternatives that could increase the Contract price or the Contract (Support) price (or both), but which reduce the overall LCC. The Commonwealth envisages that, where the tenderer is selected to participate in refining its offer, the alternatives identified by the tenderer will be addressed in consultation with the Commonwealth to enable any agreed alternatives to be included in a resultant Contract.

6.2.4 LCC Model

6.2.4.1 The TLCCM shall include the LCC data files for the LCC model in a form that does not require the Commonwealth to separately key the LCC data into the LCC modelling software specified in clause 6.2.1.2 of this TDID.

Annex:

- A. Project-specific LCC Model Requirements

ANNEX A TO TDID-FIN-LCC-TLCCM-V2.3
PROJECT-SPECIFIC LCC MODEL REQUIREMENTS

Note to drafters: This section should detail any requirements, including project-specific definitions and default parameters, which each tenderer is to utilise in developing its LCC Model. In general, this annex should specify requirements with respect to each parameter in the tool or software used to compile the LCC Model), such that the Commonwealth can undertake an 'apples-to-apples' tender evaluation of LCC.

TENDER DATA ITEM DESCRIPTION

1. **DID NAME:** TDID-ILS-DEF-PSSS-V2.3

2. **TITLE:** PROPOSED SUPPORT SYSTEM SOLUTION (PSSS)

3. DESCRIPTION AND INTENDED USE

3.1 The Proposed Support System Solution (PSSS) provides the details associated with the tenderer's (including Subcontractors') proposed solution for the Support System to meet the requirements of the draft Contract and, where applicable, the draft Contract (Support) when both the Mission System and Support System are operated and supported in accordance with the Operational Concept Document (OCD).

3.2 The Commonwealth will use the PSSS to evaluate the tenderer's proposed solution for the Support System.

4. INTER-RELATIONSHIPS

4.1 The response to this TDID provides the underpinning, in terms of scope of work, for the tenderer's draft plans for the ILS program (eg, the Integrated Support Plan (ISP)).

5. APPLICABLE DOCUMENTS

Nil.

6. PREPARATION INSTRUCTIONS

6.1 Generic Format and Content

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

6.2 Specific Content

Note to drafters: This TDID needs to be reviewed and amended, depending upon the proposed scope of the tenderer's (and Subcontractors') involvement in support activities (eg, under a Contract (Support)). Even if the RFT does not include medium-to-long-term support arrangements (such as a Contract (Support)), the tenderer (and Subcontractors) may still have to implement a support environment for the products that would be produced under the Contract. This TDID should not be modified to preclude the capture of this information. Equally, drafters should ensure that the TDID captures the full scope of the tenderer's proposed solution when the RFT requires the tenderer (and Subcontractors) to provide medium-to-long-term support (ie, as the Contractor (Support) and Subcontractors (Support)).

Note to drafters: This TDID assumes that the support concepts, which could otherwise be documented in a stand-alone 'Logistics Support Concept' or 'Use Study Report', have been documented in the OCD. If neither of these assumptions hold true, then this TDID will require amendment.

6.2.1 General

6.2.1.1 The PSSS shall describe the tenderer's proposed solution for the Support System, highlighting:

- a. any assumptions underpinning the proposed solution;
- b. how the key system functionality will be met;
- c. key design drivers and key design decisions;
- d. any risks associated with the proposed solution, including any proposed risk-mitigation strategies;

- e. any constraints or limitations with the proposed solution;

Note: *Reference should be made to the DID for the Support System Specification (SSSPEC) (DID-ILS-DEF-SSSPEC) for the scope of coverage of constraints that are of interest to the Commonwealth.*

- f. how the tenderer's proposed solution minimises Life Cycle Costs, while meeting the other requirements of the draft Contract and, where applicable, the draft Contract (Support) when both the Mission System and Support System are operated and supported in accordance with the OCD; and
- g. how the tenderer's proposed solution will be sustained over the Life Of Type (LOT) of the Mission System, particularly focussing on any proposed in-country elements of the Support System.

6.2.2 Mission System and Support System Overview

6.2.2.1 The PSSS shall provide an overview of the tenderer's proposed solutions for the Mission System and Support System, highlighting the major elements of each system that require support. Where the Mission System is a distributed system or a system that will be deployed, this section shall highlight each element of the system that will be, or could be, located away from support venues.

6.2.3 Organisational Arrangements

6.2.3.1 The PSSS shall describe the tenderer's proposed relationships and divisions of responsibilities between the respective organisations that will be responsible for the provision of support, specifically addressing:

- a. each of the Support System Constituent Capabilities, and
- b. the organisational arrangements needed to integrate the Support System Constituent Capabilities.

6.2.3.2 For each of the Support System Constituent Capabilities, the PSSS shall describe the proposed sites for the provision of support, including a brief description as to whether or not the proposed support capability at those respective sites currently exists or requires development, modification and/or expansion.

6.2.4 Support System Components

6.2.4.1 The PSSS shall identify those proposed Support System Components that are considered critical to the Support System meeting its performance objectives. Where these proposed Support System Components already exist within the Commonwealth inventory, the PSSS shall identify those components and, when the components have been mandated by the Commonwealth, the PSSS shall further highlight whether or not the components represent a significant constraint on the design of the Support System. The requirements of this section of the PSSS may be sub-divided into the respective Support System Constituent Capabilities to address the specific issues pertaining to each capability.

6.2.5 Concept of Execution

6.2.5.1 The PSSS shall describe the concept of execution for the Support System, demonstrating how the tenderer's proposed solution will meet the performance requirements of the draft Contract and, where applicable, the draft Contract (Support) when both the Mission System and Support System are operated and supported in accordance with the OCD.

6.2.5.2 Where the Mission System or the Support System are required to operate in differing states or modes, the PSSS shall describe how the tenderer's proposed solution for the Support System will meet the unique requirements associated with these differing states and modes, including any requirements associated with transitioning between the differing states and modes.

6.2.5.3 The requirements of this section of the PSSS may be sub-divided into the respective Support System Constituent Capabilities to address the specific issues pertaining to each capability.

Note: *The Commonwealth is not interested at this time in a discussion of all of the states and modes that could affect the Support System, but is more interested in those states and modes that are major drivers of Support System requirements or LCC, including (for example):*

- a. *peacetime versus contingency,*
- b. *normal operations versus training, and*
- c. *significant failure modes (eg, failure of a node in a distributed system).*

6.2.6 System Interface Requirements

- 6.2.6.1** The PSSS shall describe the Support System interfaces associated with the tenderer's proposed solution, including, as applicable:
- a. command, control, and communications interfaces, including those interfaces both within and between the Commonwealth, the Contractor (Support), and Subcontractors (Support);
 - b. maintenance pipeline and supply chain interfaces, including those interfaces between the Commonwealth, the Contractor (Support), and Subcontractors (Support);
 - c. organisational, process, and information-system interfaces between the Support System Constituent Capabilities; and
 - d. data and information flows between the Commonwealth, the Contractor(Support), and Subcontractors (Support).

6.2.7 Special Requirements

- 6.2.7.1** The PSSS shall identify any Support Resources that will need to be able to meet special requirements associated with:
- a. deployability,
 - b. environmental conditions,
 - c. transportability,
 - d. safety,
 - e. human factors engineering,
 - f. security and privacy, and
 - g. adaptation requirements.

Note: *For the scope of coverage associated with each of the elements listed in the preceding clause, reference should be made to the associated clauses in the draft DID for the SSSPEC (DID-ILS-DEF-SSSPEC).*

- 6.2.7.2** The PSSS shall describe how the tenderer's proposed solution for the Support System will meet the special requirements identified pursuant to clause 6.2.7.1 of this TDID.

6.2.8 Supportability

- 6.2.8.1** The PSSS shall state the supportability requirements for Support System Components, which the tenderer's proposed solution for the Support System would meet. These supportability requirements may be stated as a goal and a lower minimum acceptable requirement or a higher maximum acceptable requirement (as applicable for the nature of the requirement). These requirements shall include considerations for:
- a. standardisation and interoperability, including the criteria for determining when standardisation and interoperability should be pursued; and
 - b. obsolescence, including the remaining life of Support System Components after delivery to the Commonwealth.