1. (normative)  
   Function tree - DRD
   1. DRD identification
      1. Requirement identification and source document

This DRD is called from ECSS-E-ST-10, requirement 5.3.1b.

* + 1. Purpose and objective

The objective of the function tree document is to describe the hierarchical decomposition of a system or product capabilities into successive level of functions and sub-functions.

The function tree is part of the Design Definition File. It is the starting point for the establishment of the Product Tree (as defined in ECSS-M-ST-10) and is a basic structure to establish preliminary technical requirements specification(s) (as defined in ECSS-E-ST-10-06 Annex A).

* 1. Expected response
     1. Scope and content

Introduction

The function tree document shall contain a description of the purpose, objective and the reason prompting its preparation.

Applicable and reference documents

The function tree document shall contain the list of applicable and reference documents, used in support to the generation of the document.

Project summary and user’s need presentation

The function tree document shall contain a brief description of the project and of the key user’s needs.

Tree structure

The function tree document shall provide the complete list of functions that the system or product shall perform, and contain a graphical representation where the main specified function(s) (i.e. at the top level of the tree) is/are decomposed into lower level functions.

When recurrent products from previous space projects are used, the product’s functions shall be identified in the tree structure, and addition, every necessary function by the system or product that is not under the supplier’s responsibility identified in the tree structure.

* + 1. Special remarks

The function tree shall be coherent with other functional descriptions of the system or product (e.g. functional architecture, functional block diagram).