

**TERMS OF REFERENCE**  
**for**  
**COMMITTEE ON AUTOMATIC TEST SYSTEMS FOR**  
**DEFENCE (CATS4D)**

**Version 0.1**

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# **TERMS OF REFERENCE FOR THE COMMITTEE ON AUTOMATIC TEST SYSTEMS FOR DEFENCE (CATS4D)**

## **Purpose**

In order to ensure that military capability is maximised, it is important that the test systems used to support equipment (pre issue test, fault finding, maintenance etc) are optimised across defence and that MOD and industry co-operate to their mutual advantage. The CATS4D has been established to provide and facilitate that co-operation outside of specific contractual relationships.

## **Objectives**

The CATS4D provides a mechanism:

- For MOD and industry to develop mutually beneficial ATS practices (including common standards<sup>1</sup>), techniques, research programmes and training;
- To improve the provision of ATS systems;
- To assess new technologies associated with ATS;
- To provide a UK / European consensus on standards to the IEEE;
- To address and provide input to all standards associated with automatic test including revision and rewriting of DEF STANs etc
- For the resolution of difficulties arising from MOD or industry practices.

## **Reporting**

The CATS4D will report its activities into MOD and to wider industry via CoDERM, Figure 1 refers.

## **Membership**

Civil members will be drawn from the relevant United Kingdom defence related Industries and Key Suppliers. The current Industries and Key Suppliers represented on the CATS4D are:

- Aeroflex
- AKE Consultants
- AMETEK
- BAE Systems
- Cassidian Test & Services Ltd
- Cassidian Test Engineering Services Ltd
- CIMTEK
- DiagnoSYS Ltd
- EADS Astrium
- GAMBICA
- GE Aviation
- Indra (Spain)

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<sup>1</sup> MOD/Industry agree that open standards are the most beneficial approach to developing test systems – the defacto standards tend to be IEEE standards, therefore CATS4D helps to form these standards. Current standards under development are given at annex1

- Intepro
- MBDA (UK) Ltd
- Raytheon
- Rohde & Schwarz Gmbh & Co. KG (Germany)
- Rohde & Schwarz UK Ltd
- Sekas (Germany)
- SELEX Galileo
- SELEX Sensors and Airborne Systems Ltd
- Serco Technical and Assurance Services
- SSBV
- Teradyne Ltd (France)
- Teradyne Ltd (UK)
- Terotest Ltd

MOD members will be drawn from personnel associated with ATS programmes within the MOD so as to represent the corporate interests, acquisition phases and all environments of MOD's R&M activities and other relevant areas such as training and standardisation.

#### **Chairman**

The CATS4D shall be chaired by a representative from the MOD.

#### **Secretariat**

The MoD will provide the secretariat for the CATS4D.

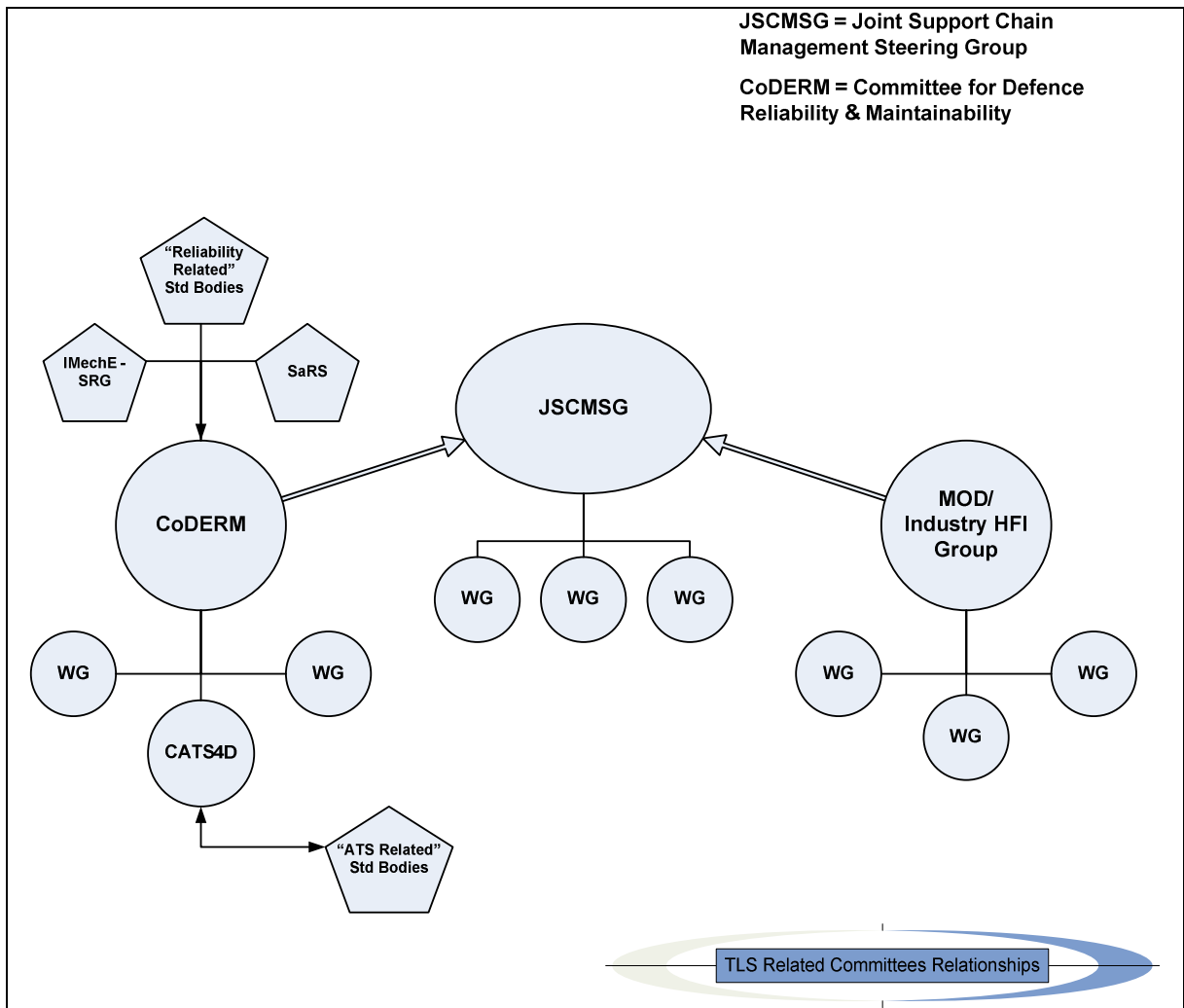
#### **Work Streams**

To develop common practices, techniques, research programmes and training it will be necessary for the CATS4D to use work streams. The CATS4D is authorised to commission work streams to achieve specified objectives, and each work stream is to operate as a temporary group with a defined end-date (Sunset Clause). The work streams are to submit Terms of Reference and proposed new work items (NWI) to the CATS4D for approval.

The CoDERM is to maintain an approved Programme of Work (POW) for the work streams, containing their objectives, milestones, delivery dates and the declared Sunset Clause. The CATS4D is to review progress against the POW at each meeting, and to authorise a new POW annually.

#### **Meeting Frequency**

The CATS4D shall meet bi-annually, normally in May and November.



**Figure 1 – CoDERM Reporting Hierarchy**

## Current work in progress - IEEE Standards

### Hardware Interfaces (HI)

IEEE 1505	-	Receiver Fixture Interface RFI
IEEE 1505.1	-	Common Test Interface Pin Map
IEEE 1505.1.1	-	Common Test Interface XML Instance
IEEE P1505.3	-	Test Interface and Pin configuration for portable/bench top test
IEEE P1693	-	Standard for Modular Interconnect Packaging for Scalable Systems

### Diagnostic and Maintenance Control (DMC)

IEEE 1232	-	AI-ESTATE
IEEE P1232.2	-	AI-ESTATE Users Guide
IEEE 1636	-	SIMICA
IEEE 1636.1	-	Test Results and Session Information
IEEE 1636.2	-	MAI
IEEE P1636.99	-	SIMICA Common
IEEE 1445	-	DTIF
IEEE 1546	-	DTIF Users Guide

### Test and ATS Description (TAD)

IEEE 1641	-	STD
IEEE 1641.1	-	STD Users Guide
IEEE 716	-	C/ATLAS
IEEE 771	-	ATLAS User Guide
IEEE 1671.1	-	Test Description
IEEE 1671.3	-	UUT Description

### Test Information Integration (TII)

IEEE 1671	-	ATML Overview and Architecture
IEEE P1671.0	-	ATML Users Guide
IEEE 1671.2	-	Instrument Description
IEEE 1671.4	-	Test Configuration
IEEE 1671.5	-	Test Adaptor
IEEE 1671.6	-	Test Station
IEEE P1871.1	-	Recommended Practice: IEEE 1671.2 Instrument Description Templates
IEEE P1871.2	-	Recommended Practice: IEEE 1671 Intrinsic Signal Path Information