

...it illustrates the business entities and interconnectivity within which the capability will operate, whilst highlighting the contextual environment; presented by annotating the capability in operational context

What else it can do

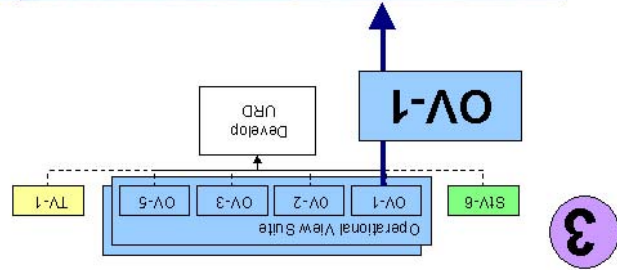
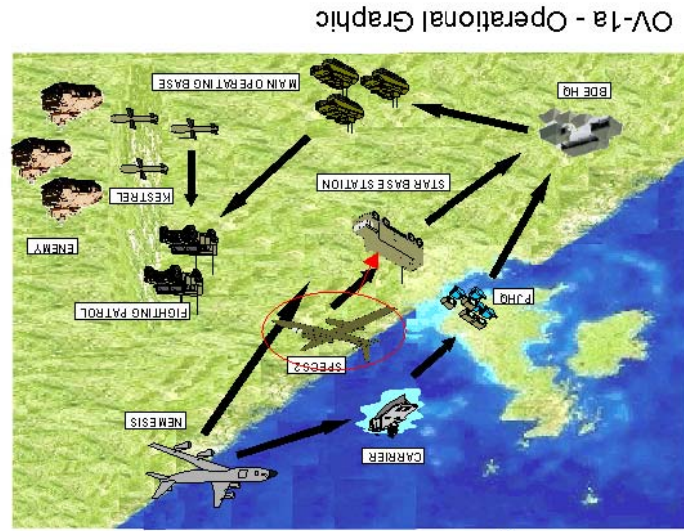
- Used to define and express operational missions, exercises

What it does

- Ensures that the supplier has a understanding of the operational space; enables them to contemplate potential issues for new capability

What to do

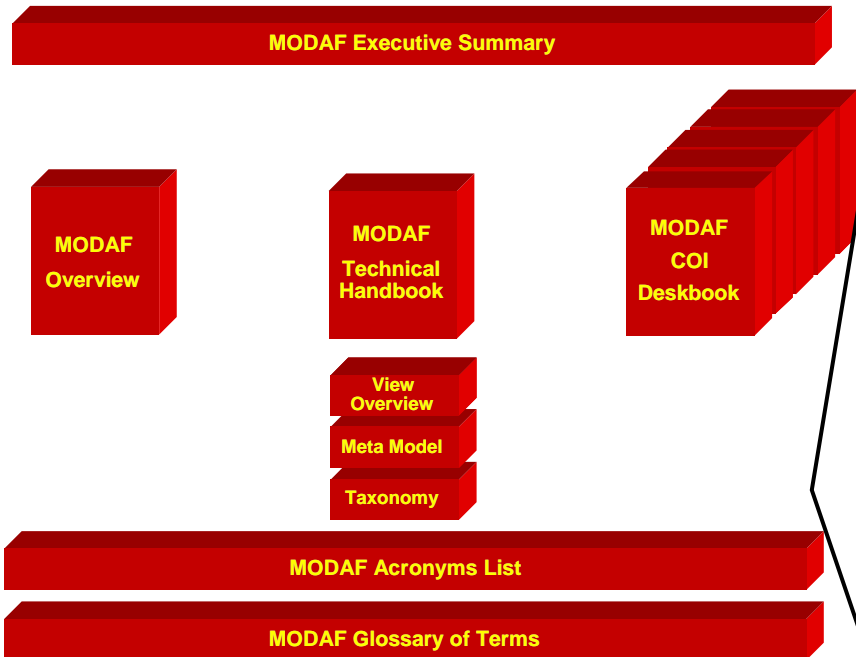
- Create an OV-1a to illustrate each scenario and vignette specified in the StV-6
- Create OV-1b to describe OV-1a
- Create OV-1c to list performance attributes



Illustrate Operational Entities & Context

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MODAF Document Hierarchy



Guide	Relevant COIs	Reference
Capability Management	Customer 1	MODAF-M10-002
User Requirements Document	Customer 1	MODAF-M10-003
Project Management	Acquisition	MODAF-M10-006
Requirements	Customer 2	MODAF-M10-007
System Requirements Document	Acquisition	MODAF-M10-008
Systems / Technology	Acquisition	MODAF-M10-009
Industry / Supplier Liaison	Acquisition	MODAF-M10-010
Through-Life Management	Acquisition	MODAF-M10-011
Operational Planning	Acquisition	MODAF-M10-012
Developing MODAF Architectures	Acquisition	MODAF-M09-003
Capability Management	Sustainment	MODAF-M10-002
User Requirements Document	Customer 2	MODAF-M10-003
Project Management	Customer 2	MODAF-M10-006

This guide intends to provide the key information about the MOD Architectural Framework (MODAF) required for the development of a User Requirements Document (URD). More detailed information can be found in the MODAF ECC and Acquisition Deskbooks, by referencing www.modaf.com, or by contacting the DPA Integration Authority on ia8b@dpa.mod.uk

What else it can do

- Enables analysis of operational activities in support of new capability requirements

What it does

- Provides structure to URD
- Ensures that all key operational activities have been addressed as a vignette for each scenario

What to do

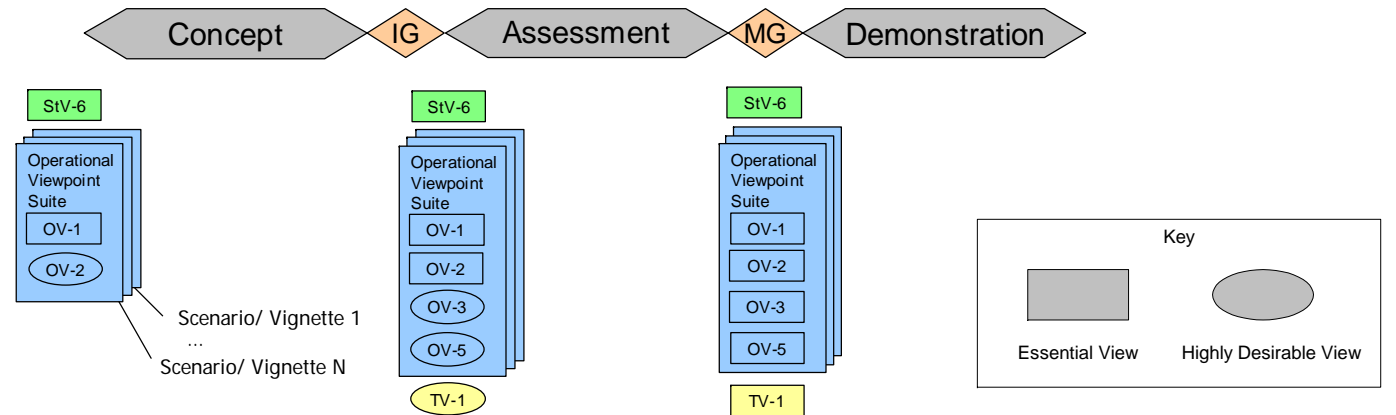
- Select a set of scenarios to represent the situations in which the capability must operate
- Select a set of vignettes that encompass all the key activities that the solution must perform
- Annotate multiple copies of each scenario-based StV-6 to represent each vignette

Define URD & Vignettes

1

MODAF Reference Guide URD Development

Ref: M10-003



The Process

- The URD is owned by ECC, and represents a statement of user need (i.e. 2nd Customer)
- Development of MODAF Viewpoints for the URD is a progressive approach over the first two stages of the CADMID cycle. It starts by identifying URD scenarios and vignettes for Initial Gate, and further expands on the detail of scenario activities for Main Gate. It is then maintained and updated to disposal, reflecting changes and modifications to the capability

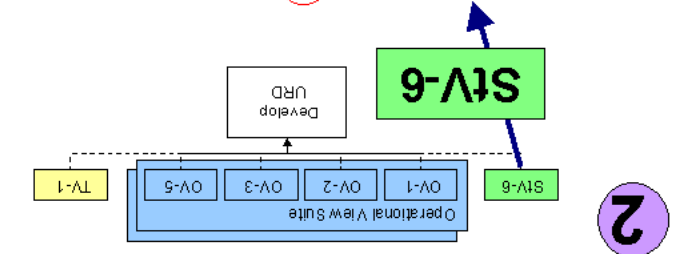
Solutioneering

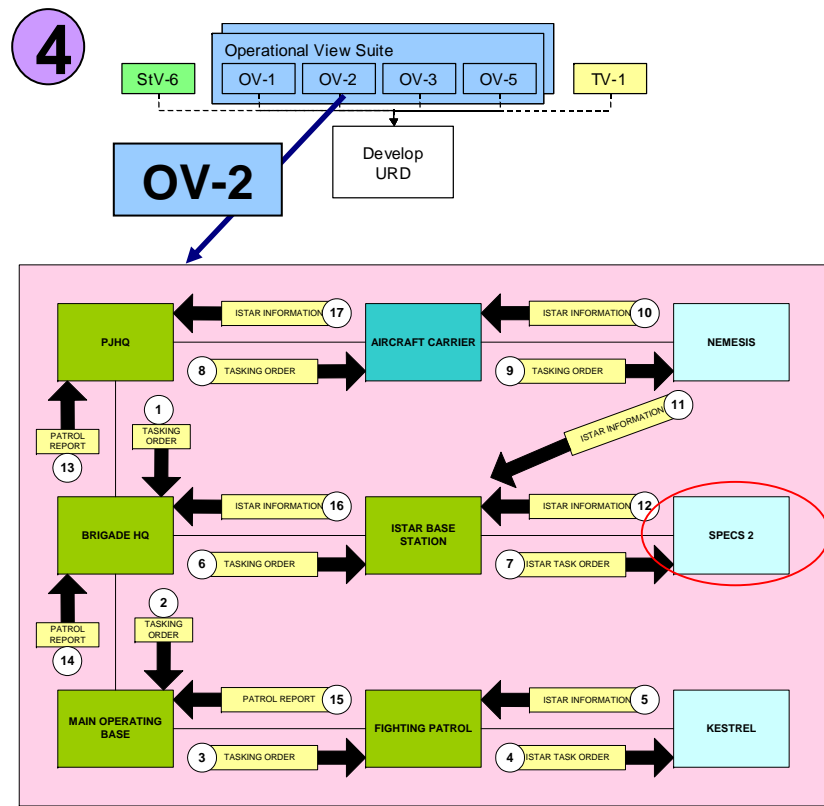
- SMART acquisition principles distinguish between requirements and constraints. Requirements are capability statements with no association to a type of solution or extant/ proposed operational environment; constraints place the requirement in context of the extant/ proposed environment.
- MODAF Views can be used to specify both requirements and constraints depending on their content. The positioning of a MODAF view as requirements or constraints needs to be considered as the view content is developed to avoid solutioneering. For further information refer to the Customer 1 Deskbook explanation - Ref MODAF-M10-001

...defines each scenario used in the URD as a matrix of activities and capability functions; each vignette presented by annotating a sub-set of those activities and capability functions

StV-6 Capability to Operational Activity Mapping

Operational Activity	Information Management	Acquisition	Recon	Attack	Reoperate
Effects					
Information Management	X				
Acquisition		X			
Recon			X		
Attack				X	
Coordinate Plan				X	
Conduct Estimate				X	



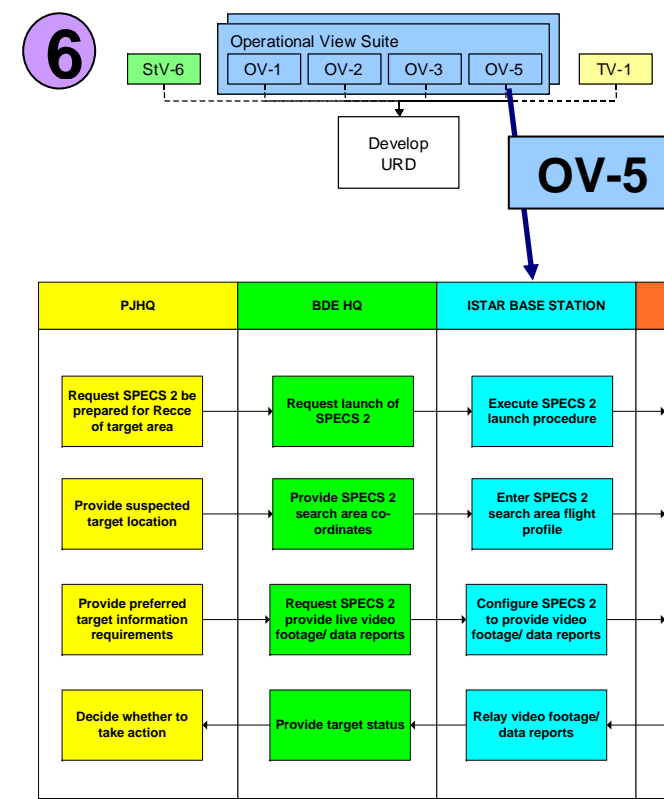


OV-2 Operational Node Connectivity Description

...specifies the operational nodes and need line information flow requirements to be satisfied by the solution; presented by annotating the nodes and information needs to be satisfied by the solution

Specify Operational Nodes & Information Needs

- What to do**
- Create an OV-2 to specify the nodes and information need requirements for each scenario or vignette specified in the StV-6.
- What it does**
- Ensures that the supplier delivers a solution that accounts for the nodes and information needs
- What else it can do**
- Used to define and express operational missions, exercises

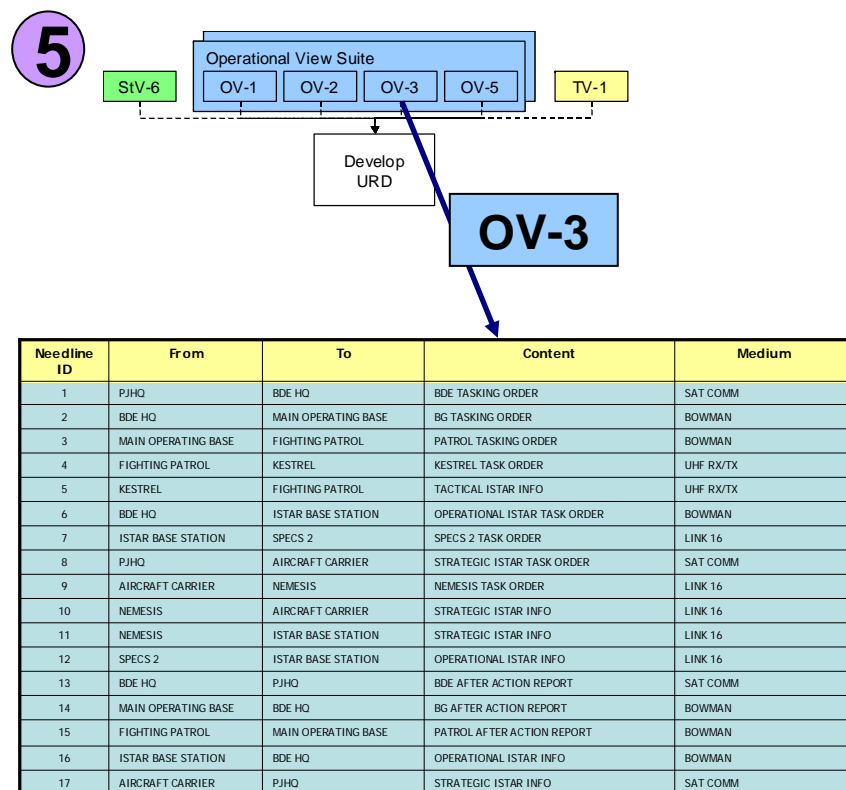


OV-5 Operational Activity Model

...specifies the operational activity requirements to be satisfied by the solution; presented by annotating the operational activities to be satisfied by the solution

Specify Operational Activities

- What to do**
- Create an OV-6 to specify the flow of operational activities for each scenario or vignette specified in the StV-6.
 - Multiple copies may be required to detail several levels of granularity
- What it does**
- Ensures that the supplier delivers a solution that accounts for the required operational activities
- What else it can do**
- Used to articulate issues in the Battlespace. E.g. identifying the impact of being unable to perform a particular activity given a system inability

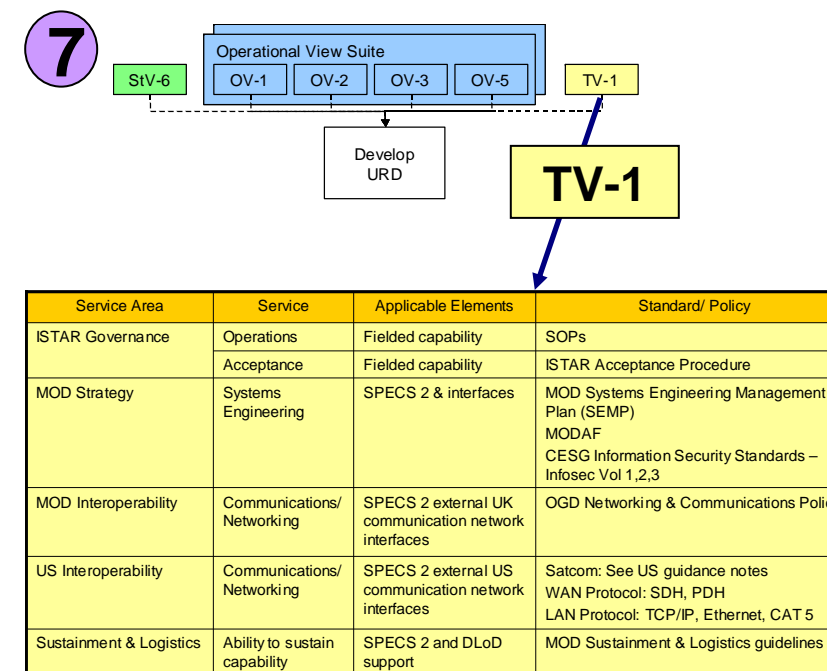


OV-3 Operational Information Exchange Matrix

...specifies the information exchange requirements to be satisfied by the solution; presented by annotating the information exchanges to be satisfied by the solution

Specify Operational Information Flows

- What to do**
- Create an OV-3 to specify the information exchange requirements that take place between nodes for each scenario or vignette specified in the StV-6.
- What it does**
- Adds detail to OV-2
 - Ensures that the supplier delivers a solution that accounts for specific information exchanges
- What else it can do**
- Used to analyse information flows in the Battlespace, with regards to identifying interoperability issues



TV-1 Technical Standards Profile

...specifies the technical standards, guidance and policies to which the solution must adhere; presented as a simple list of standards, no annotation required

Specify Standards & Operational Policy

- What to do**
- Create a TV-1 to list all the technical standards and operational policies to which the solution must adhere
 - Multiple TV-1s can be created to align with solution components
- What it does**
- Ensures that the solution meets customer quality expectations
- What else it can do**
- Aids equipment maintenance and sustainment by identifying the list of standards that are appropriate to a particular system, equipment.
 - Supports industry consultation to determine the implications of standards and policy constraints