



Rearranging NAF Views

Ian Bailey

ian@modelfutures.com



UNCLASSIFIED





View Structure



- NAF and MODAF inherited the view structure from DoDAF
 - And then added some more views
 - ...and then some more
 - Grew “organically”
- Resulting structure is illogical and poorly named
 - Makes the framework hard to navigate
 - ...and hard to remember



An Example



- Process Models
 - In NCV it's number 6
 - In NSOV it's number 5
 - In NOV it's number 5b
 - In NSV it's number 4
- Inconsistent, counter-intuitive and hard to remember
- ...and NOV-4 should be an NSV



NAF Does Have a Structure



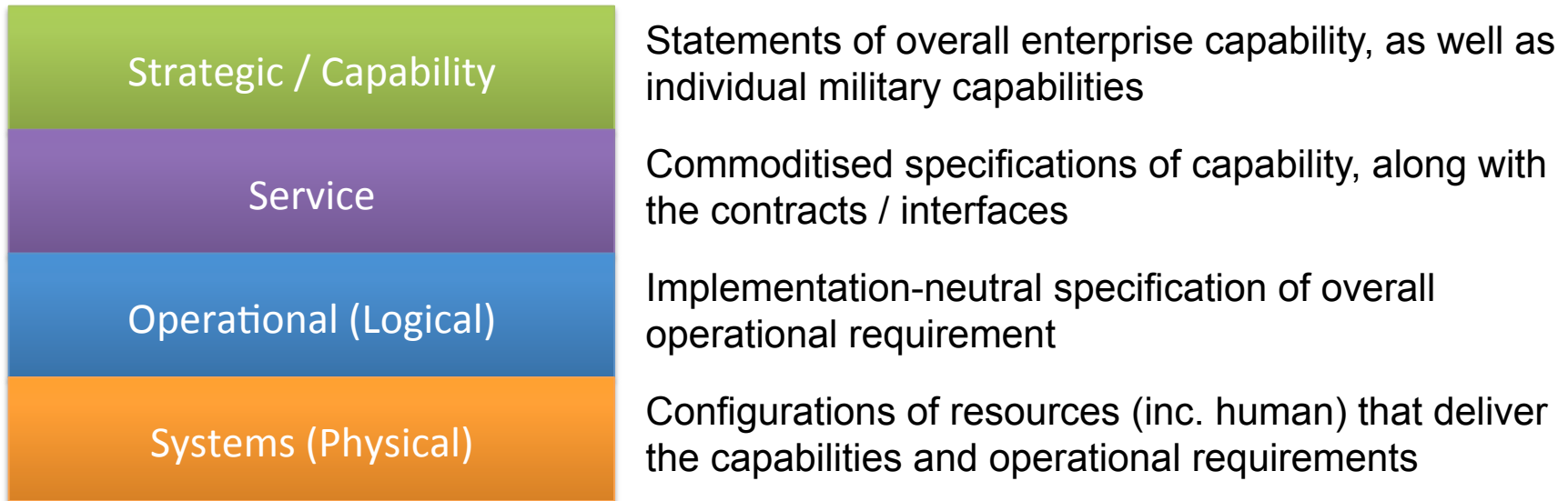
- If you ignore the numbers, there are common features at most levels:
 - Structure Models
 - Connectivity Models
 - Process Models
 - State Machines
 - Sequence Diagrams
 - Data Models



NAF Does Have Levels of Abstraction



- NAF is based on levels of specificity:



- The names are misleading though...



So Let's Fix it



- The merger of MODAF and NAF (with MODEM) is the perfect opportunity to sort this mess out
- The re-organisation is just about discovery and navigation
 - We still have the same views
 - We just give them sensible names
 - ...and show where there are common model types



Grid Approach



	Behaviour								
	Classification	Structure	Connectivity	Processes	States	Sequences	Information	Constraints	Programme
Enterprise	E1 Capability Taxonomy <i>NAV-2, NCV-2 AV-2, StV-2</i>	E2 Enterprise Vision <i>NCV-1 StV-1</i>	E3 Capability Dependencies <i>NCV-4 StV-4</i>	E4 Standard Processes <i>NCV-6 StV-6</i>	E5 Effects		E7 Performance Parameters <i>NCV-1 StV-1</i>	E8 Planning Assumptions	Ep Capability Phasing <i>NCV-3 StV-3</i>
Service	E1-S1 (NSOV-3) S1 Service Taxonomy <i>NAV-2, NSOV-1 AV-2, SOV-1</i>		S3 Service Interfaces <i>NSOV-2 SOV-2</i>	S4 Service Functions <i>NSOV-3 SOV-5</i>	S5 Service States <i>NSOV-4b SOV-4b</i>	S6 Service Interactions <i>NSOV-4c SOV-4c</i>	S7 Service I/F Parameters <i>NSOV-2 SOV-2</i>	S8 Service Policy <i>NSOV-4a SOV-4a</i>	Sp Service Delivery
Logical	L1 Node Types <i>NAV-2 AV-2</i>	L2 Logical Scenario <i>NOV-2 OV-2</i>	L3 Node Interactions <i>NOV-2, NOV-3 OV-2, OV-3</i>	L4 Logical Activities <i>NOV-5 OV-5</i>	L5 Logical States <i>NOV-6b OV-6b</i>	L6 Logical Sequence <i>NOV-6c OV-6c</i>	L7 Logical Data Model <i>NSV-11a OV-7</i>	L8 Logical Constraints <i>NOV-6a OV-6a</i>	Lp Lines of Development <i>NPV-2 AcV-2</i>
Resources	R1 Resource Types <i>NAV-2, NSV-9 AV-2, SV-9</i>	R2 Resource Structure <i>NOV-4, NSV-1 OV-4, SV-1</i>	R3 Resource Connectivity <i>NSV-2, NSV-6 SV-2, SV-6</i>	L4-R4 (NSV-5) R4 Resource Functions <i>NSV-4 SV-4</i>	R5 Resource States <i>NSV-10b SV-10b</i>	R6 Resource Sequence <i>NSV-10c SV-10c</i>	R7 Physical Data Model <i>NSV-11b SV-11</i>	R8 Resource Constraints <i>NSV-10a SV-10a</i>	Rp Configuration Management <i>NSV-8 SV-8</i>
Deployed	D1 Master Data <i>NAV-2 AV-2</i>	D2 Deployed Resources <i>NCV-5, NOV-4 StV-5, OV-4</i>							Dp Deployment Schedule <i>NCV-5 StV-5</i>
Architecture	A1 Meta-Data Definitions <i>NAV-3 AV-1/2</i>	A2 Architecture Products	A3 Architecture Correspondance <i>ISO42010</i>	A4 Methodology Used <i>NAF Ch3</i>	A5 Architecture Status <i>NAV-1 AV-1</i>	A6 Architecture Versions <i>NAV-1 AV-1</i>	A7 Architecture Meta-Data <i>NAV-1/3 AV-1</i>	A8 Standards <i>NTV-1/2 TV-1/2</i>	Ap Architecture Plan



www.nafdocs.org



Why *that* Grid ?



- The grid just reflects what's already in NAF
- It is not new – the levels ALWAYS existed, as did the different types of model
- It exposes some gaps in NAF



Where Does Security Fit ?



- Opinion Differs
- Some believe we need new views for security
- Others believe we have all the views we need, we just need guidance on how to use them for security
- Meta-Model covers most of what is needed, but may need a little extension