

L3 Node Interactions

Description

The L3 Node Interactions view addresses operational information exchanges between nodes. Information exchanges provide further detail of the interoperability requirements associated with the operational capability of interest. The focus is on information exchanges that cross the capability boundary.

Although the primary purpose of this view is to specify information exchanges, an L3 may also list flows of materiel, energy and human resources.

The L3 view may be used to:

- Define operational concepts.
- Elaborate capability requirements.
- Define collaboration needs.
- Associate capability with a location.
- Define Problem space.
- Operational planning.
- Analyze Supply chain.
- Secure models – e.g. domain-based security & entity trust models.

Implementation

The L3 view can be represented using:

- An L3 Node Interactions table.

#	Operational Exchange Item	Sending Node	Receiving Node	Producing Operational Activity	Consuming Operational Activity
1	Request	Tactical C2 Node	SAR Asset Controller		
2	Control Order	Tactical C2 Node	Rescue Node		
3	Control Order	Tactical C2 Node	Search Node		
4	Warning Order	Search Node	Place Of Safety	Send Warning Order	Process Warning Order
5	Medical Condition	Search Node	Rescue Node	Monitor Health	Provide Medical Assistance
6	Task	SAR Asset Controller	Search Node		
7	Task	SAR Asset Controller	Rescue Node		
8	Distress Signal	Person In Distress	Search Node	Send Distress Signal	Receive Distress Signal
9	Distress Signal	Person In Distress	Rescue Node	Send Distress Signal	Receive Distress Signal
10	Distress Signal	Person In Distress	Monitoring Node		
11	Track Info	Monitoring Node	Tactical C2 Node		

- An L3 Node Role Interactions table.

Options									
Scope (optional): <input type="text"/> Drag elements from the Model Browser <input type="button" value="Cancel"/> Filter: <input type="text"/> <input type="button" value="OK"/> <input type="button" value="Regular"/> <input type="button" value="Inherited / Aggregated"/>									
#	Exchange ID	Operational Exchange Item	Sending Node	Sending Node	Receiving Rule	Receiving Node	Producing Operational Activity	Consuming Operational Activity	
1	OE1	Warning Order	Searcher	Search Node	POSS	Place Of Safety	Send Warning Order	Process Warning Order	
2	OE2	Medical Condition	Searcher	Search Node	Rescuer	Rescue Node	Monitor Health	Provide Medical Assistance	
3	OE2	Medical Condition	Searcher	Search Node	Rescuer DS	Rescue Node	Monitor Health	Provide Medical Assistance	
4	OE2	Medical Condition	Searcher	Search Node	Rescuer NS	Rescue Node	Monitor Health	Provide Medical Assistance	
5	OE3	Distress Signal	Victim	Person In Distress	Rescuer	Rescue Node	Send Distress Signal	Receive Distress Signal	
6	OE3	Distress Signal	Victim	Person In Distress	Rescuer DS	Rescue Node	Send Distress Signal	Receive Distress Signal	
7	OE3	Distress Signal	Victim	Person In Distress	Rescuer NS	Rescue Node	Send Distress Signal	Receive Distress Signal	
8	OE4	Distress Signal	Victim	Person In Distress	MNI	Monitoring Node			
9	OE5	Track Info	MNI	Monitoring Node	TIC2N	Tactical C2 Node			
10	OE7	Control Order	TIC2N	Tactical C2 Node	Searcher	Search Node			
11	OE8	Request	TIC2N	Tactical C2 Node	SAR AC	SAR Asset Controller			
12	OE9	Task	SAR AC	SAR Asset Controller	Rescuer	Rescue Node			
13	OE9	Task	SAR AC	SAR Asset Controller	Rescuer DS	Rescue Node			
14	OE9	Task	SAR AC	SAR Asset Controller	Rescuer NS	Rescue Node			
15	OE10	Task	SAR AC	SAR Asset Controller	Searcher	Search Node			
16	OE11	Distress Signal	Victim	Person In Distress	Searcher	Search Node	Send Distress Signal	Receive Distress Signal	

- An L3 spreadsheet report.

Related elements

- Node
- Node Role
- Operational Exchange
- Exchange Element
- Energy
- Materiel
- Operational Activity

Related procedures

- [Creating L3 Node Interactions table](#)