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.
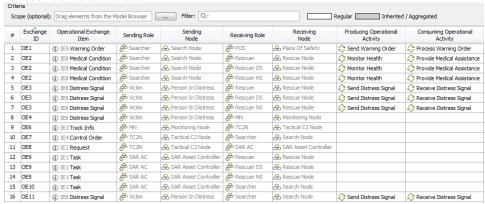- Secure models – e.g. domain-based security & entity trust models.

Implementation

The L3 view can be represented using:

- 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		

- L3 Node Role Interactions table.

Criteria

Scope (optional): [Drag elements from the Model Browser] [....] Filter: [Q-] [ ] Regular [ ] Inherited / Aggregated

#	Exchange ID	Operational Exchange Item	Sending Role	Sending Node	Receiving Role	Receiving Node	Producing Operational Activity	Consuming Operational Activity
1	OE1	IE5 Warning Order	Searcher	Search Node	POS	Place Of Safety	Send Warning Order	Process Warning Order
2	OE2	IE8 Medical Condition	Searcher	Search Node	Rescuer	Rescue Node	Monitor Health	Provide Medical Assistance
3	OE2	IE8 Medical Condition	Searcher	Search Node	Rescuer DS	Rescue Node	Monitor Health	Provide Medical Assistance
4	OE2	IE8 Medical Condition	Searcher	Search Node	Rescuer NS	Rescue Node	Monitor Health	Provide Medical Assistance
5	OE3	IE6 Distress Signal	Victim	Person In Distress	Rescuer	Rescue Node	Send Distress Signal	Receive Distress Signal
6	OE3	IE6 Distress Signal	Victim	Person In Distress	Rescuer DS	Rescue Node	Send Distress Signal	Receive Distress Signal
7	OE3	IE6 Distress Signal	Victim	Person In Distress	Rescuer NS	Rescue Node	Send Distress Signal	Receive Distress Signal
8	OE4	IE6 Distress Signal	Victim	Person In Distress	MN	Monitoring Node		
9	OE6	IE3 Track Info	MN	Monitoring Node	TC2N	Tactical C2 Node		
10	OE7	IE4 Control Order	TC2N	Tactical C2 Node	Searcher	Search Node		
11	OE8	IE2 Request	TC2N	Tactical C2 Node	SAR AC	SAR Asset Controller		
12	OE9	IE1 Task	SAR AC	SAR Asset Controller	Rescuer	Rescue Node		
13	OE9	IE1 Task	SAR AC	SAR Asset Controller	Rescuer DS	Rescue Node		
14	OE9	IE1 Task	SAR AC	SAR Asset Controller	Rescuer NS	Rescue Node		
15	OE10	IE1 Task	SAR AC	SAR Asset Controller	Searcher	Search Node		
16	OE11	IE6 Distress Signal	Victim	Person In Distress	Searcher	Search Node	Send Distress Signal	Receive Distress Signal

- L3 spreadsheet report.

Related elements

- Operational Role
- Operational Exchange
- Information Element
- Natural Resource
- Operational Activity

Related procedures

- Creating L3 Node Interactions table