# 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	<ol> <li>Request</li> </ol>	윤 Tactical C2 Node	윤 SAR Asset Controller		
2	<ol> <li>Control Order</li> </ol>	윤 Tactical C2 Node	윤 Rescue Node		
3	<ol> <li>Control Order</li> </ol>	윤 Tactical C2 Node	윤 Search Node		
4	(i) Warning Order	😞 Search Node	윤 Place Of Safety	승 Send Warning Order	关 Process Warning Order
5	<ol> <li>Medical Condition</li> </ol>	윤 Search Node	윤 Rescue Node	승 Monitor Health	关 Provide Medical Assistance
6	🚺 Task	😞 SAR Asset Controller	윤 Search Node		
7	🚺 Task	😞 SAR Asset Controller	윤 Rescue Node		
8	<ol> <li>Distress Signal</li> </ol>	😞 Person In Distress	😞 Search Node	승 Send Distress Signal	关 Receive Distress Signal
9	<ol> <li>Distress Signal</li> </ol>	윤 Person In Distress	윤 Rescue Node	승 Send Distress Signal	关 Receive Distress Signal
10	<ol> <li>Distress Signal</li> </ol>	윤 Person In Distress	윤 Monitoring Node		
11	<ol> <li>Track Info</li> </ol>	윤 Monitoring Node	윤 Tactical C2 Node		

•	L3 Node	Role	Interactions	table.
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#	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	승 Send Warning Order	Process Warning Order
2	OE2	IE8 Medical Condition	🔗 Searcher	😞 Search Node	🔗 Rescuer	용 Rescue Node	😔 Monitor Health	Provide Medical Assistance
3	OE2	IE8 Medical Condition	🔗 Searcher	😞 Search Node	🔗 Rescuer DS	윤 Rescue Node	关 Monitor Health	Provide Medical Assistance
4	OE2	IE8 Medical Condition	🔗 Searcher	😞 Search Node	🔗 Rescuer NS	😞 Rescue Node	关 Monitor Health	Provide Medical Assistance
5	OE3	IE6 Distress Signal	🔗 Victim	😞 Person In Distress	🔗 Rescuer	😞 Rescue Node	승 Send Distress Signal	Receive Distress Signal
6	OE3	IE6 Distress Signal	🔗 Victim	😞 Person In Distress	🔗 Rescuer DS	😞 Rescue Node	승 Send Distress Signal	Receive Distress Signal
7	OE3	IE6 Distress Signal	🔗 Victim	용 Person In Distress	🔗 Rescuer NS	용 Rescue Node	😔 Send Distress Signal	Receive Distress Signal
8	OE4	IE6 Distress Signal	🚰 Victim	용 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	용 Person In Distress	🔗 Searcher	😞 Search Node	승 Send Distress Signal	

• L3 spreadsheet report.

## **Related elements**

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

### **Related procedures**

Creating L3 Node Interactions table