



## Operational Based Enterprise Architecture of Requirements for Tactical Communications

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The definition of interoperability gives us a task to live up to.

*NATO: The ability to act together coherently, effectively, and efficiently to achieve Allied tactical, operational and strategic objectives.*

To be able to operate efficiently together we need to know we can work together, that our way of working is interoperable AND we need to know that our systems support this, not only that the systems can connect and have the same standards implemented.

This requires that we understand the operational context and are able to derive different sorts of requirements from this. Also, we need to handle requirements and steering information in a structured manner.

The presentation will describe how FMV in a first step has created a model-based version of the Swedish Armed Forces Joint Policy documentation for Interoperability Enabling Systems 2016-2025 document suite.

The employment of multiple TDLs within an operational scenario provides a complex range of overlapping and mutually dependent communication paths to ensure data exchange requirements are met. The full operational impact of any changes to the availability of a particular TDL capability are often hard to determine due to this complexity.

Therefore FMV has also developed a model to complement the first model with more operational descriptions and to capture the information exchange requirements in an multi TDL environment, in a combined scenario of ASW, ASUW and AD. The approach has been both Top-Down and Bottom-Up.

This approach can support a 'golden thread' from operational requirements right down to issues identified at the bit level of TDL communications.