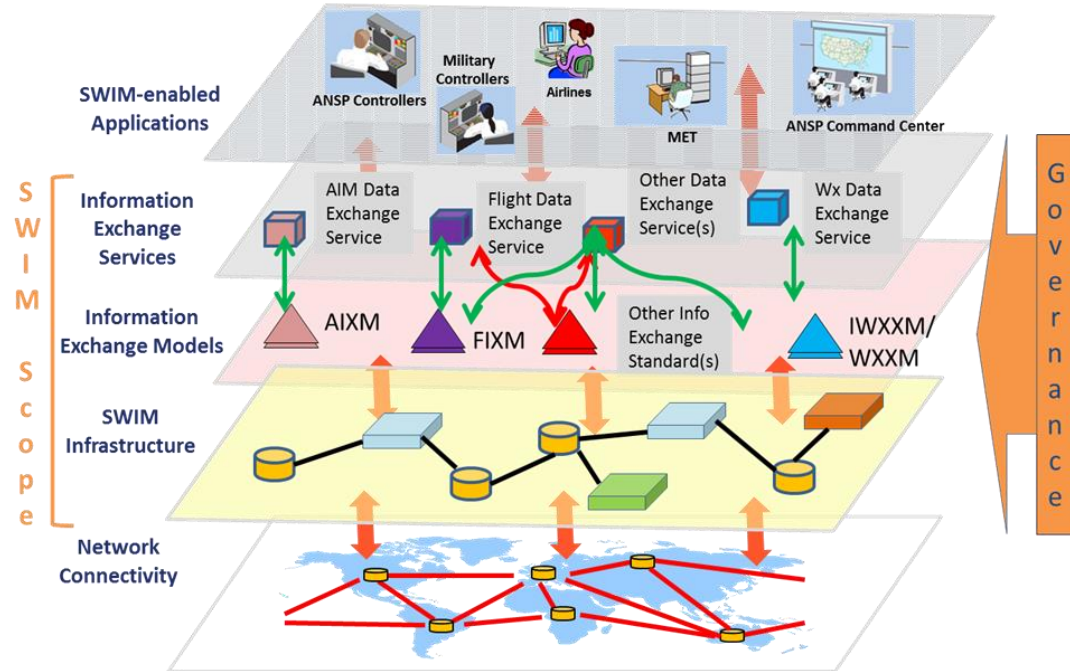


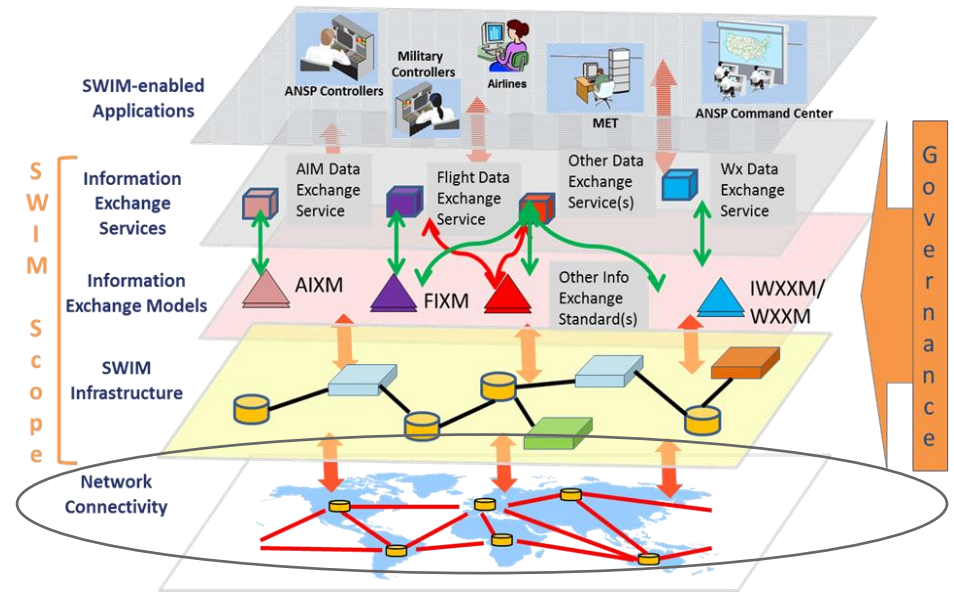
# SWIM Layers

- SWIM Enabled Applications.
- Information Exchange Services.
- Information Exchange Models.
- SWIM Infrastructure.
- Network Connectivity.



# Network Connectivity

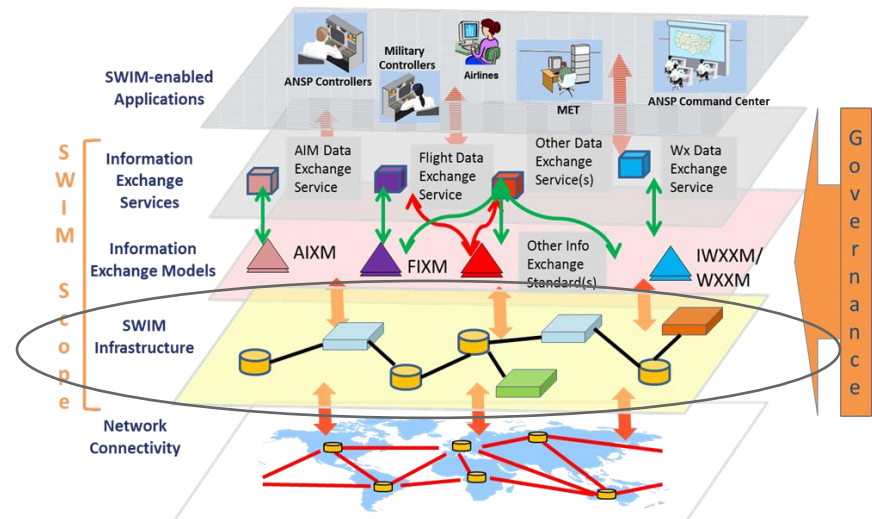
- Provides telecommunication services.
- Consist of a collection of interconnected network infrastructure of different stakeholders.
- Private or public Internet protocol (IP) networks.



# SWIM Infrastructure

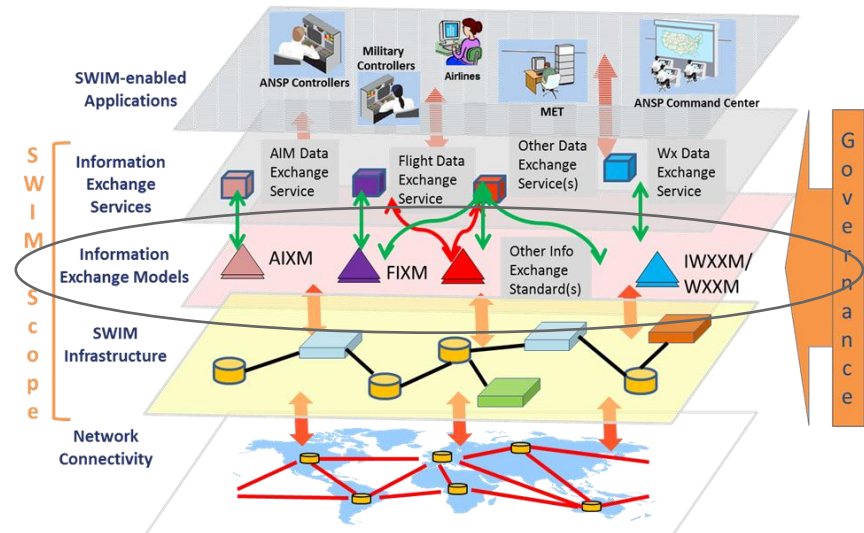
Infrastructure provides the core services, such as

- Interface management.
- Request reply and publish subscribe messaging.
- Service security.
- Enterprise services management



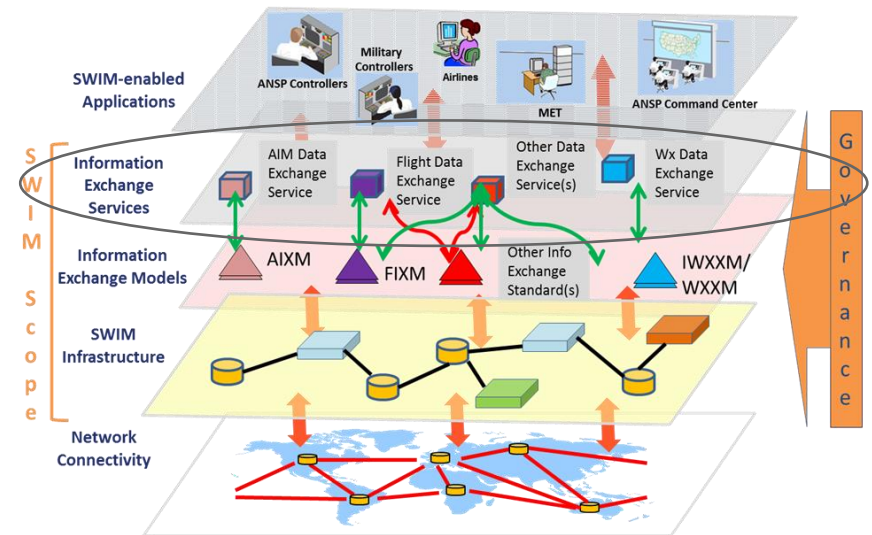
# Information Exchange Models

- Using subject specific standards for sharing information for the information exchange services.
- The models define the syntax and semantics of the data exchanged by the applications.



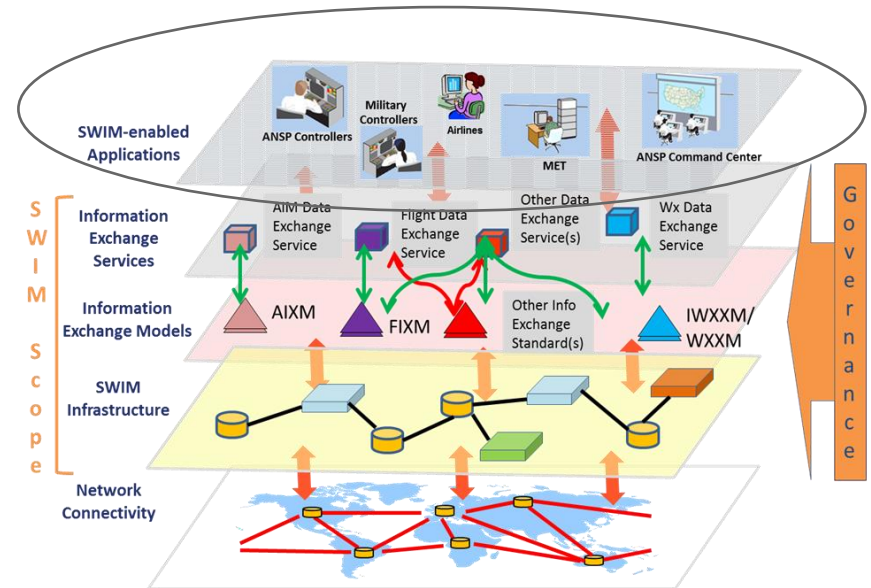
# Information Exchange Services

- Will be defined for each ATM information domain and for cross domain purposes.
- Governance specifications must be defined and agreed.
- SWIM enabled applications will use information exchange services for interaction.



# SWIM enabled applications

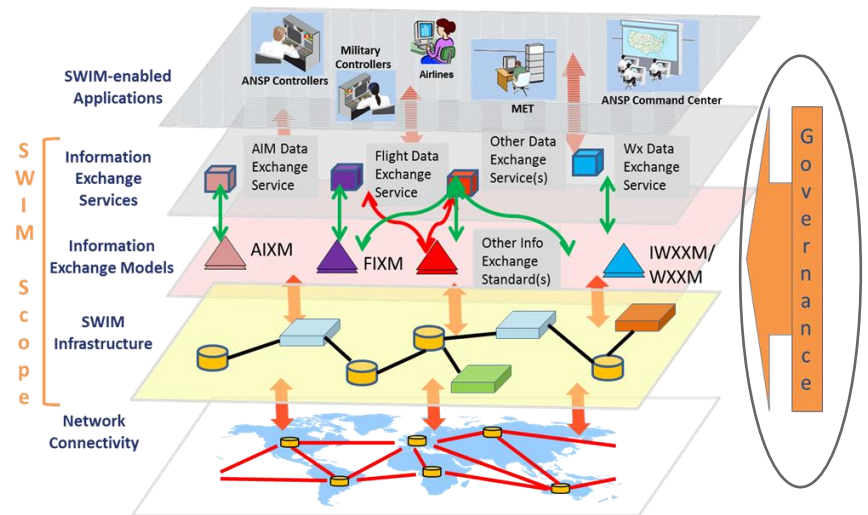
Applications that interoperate through SWIM, can be information providers and consumers from around the globe.



# SWIM Governance

## SWIM Registry

- Achieving interoperability across all ATM areas requires governance.
- Registry is the key to bring SWIM related artifacts together, and enable policy enforcement where required.
- It allows information providers to publish services and consumers to find appropriate services.
- Registry allows collaborative lifecycle management.



# Interoperability



Logical

Organisation A

Real World System



Organisation B

Real World System

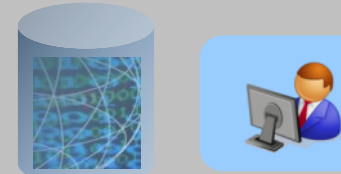


Technical

Information System



Information System



Organisational Alignment



Process Alignment



Semantic Alignment



Syntax (XML,...)



Interaction (SOAP, REST, OGC...)



Transport (HTTP, TCP/IP,...)

