

TETRA Security

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TELCOMA

TETRA Security

Communications Security model :

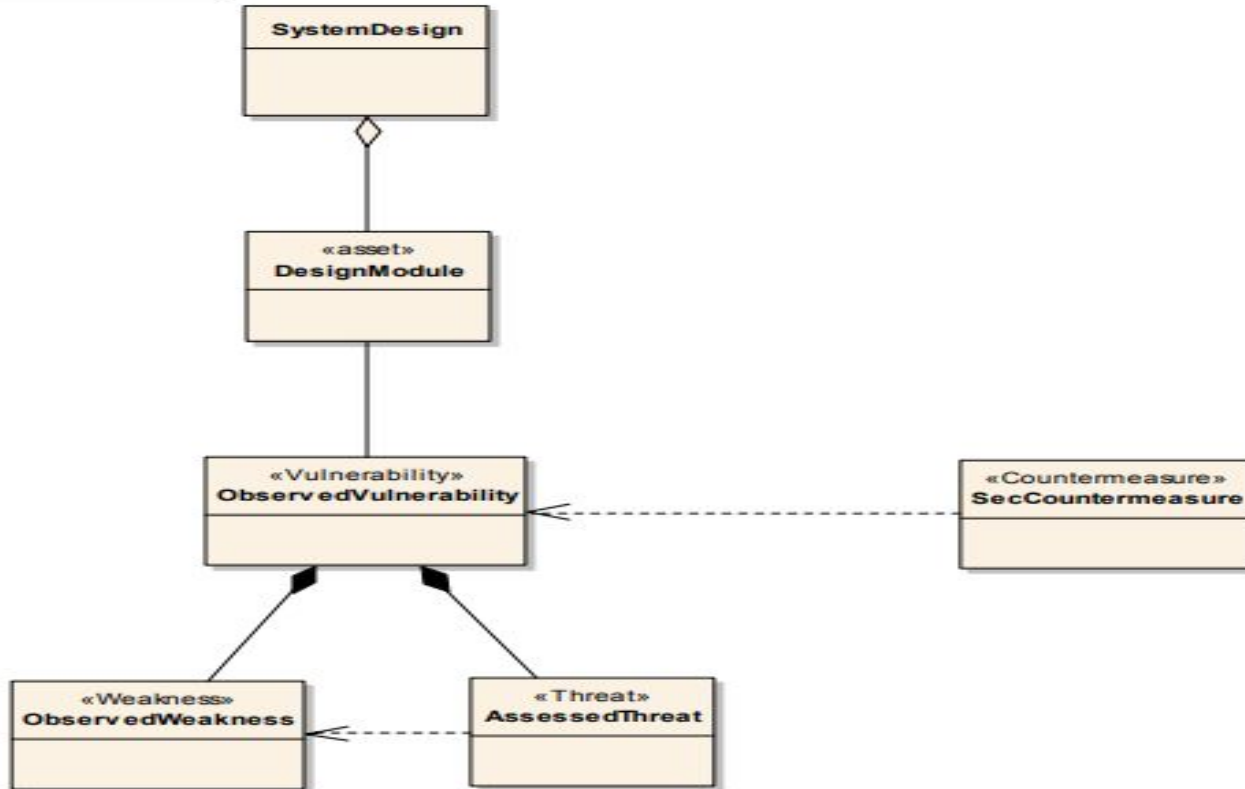
- Confidentiality
- Integrity
- Availability

Goals of security and evaluation :

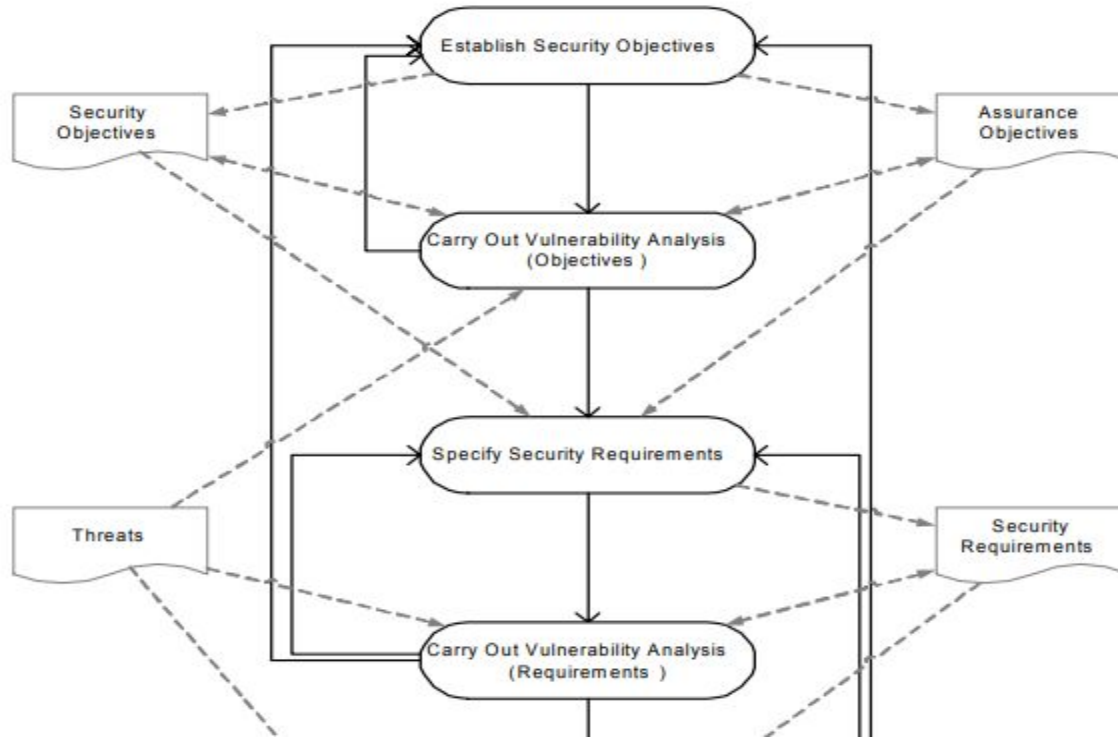
- To provide product owners with confidence that countermeasures bring the risk to assets to an acceptable level.
- To ensure that evaluation provides evidence of assurance giving confidence that countermeasures bring the risk to assets to an acceptable level.

Security model :

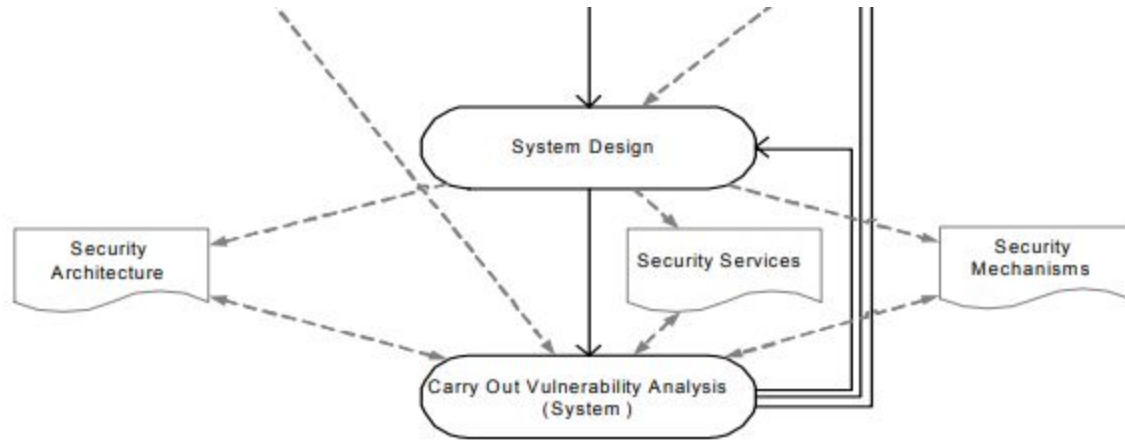
cd General model



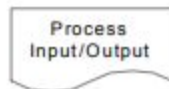
TVRA Development model :



TVRA Development model :



Key :



Security objectives :

- To be able to prove the identity of users and networks.
- To ensure confidentiality of communication
- To ensure integrity of communication
- To ensure the rights of privacy of the system's users.

VOIP OPTIMIZATION

VOIP Padding :

- A high percentage of MAC padding of VoLTE packet will degrade the system capacity, if it needs to pay more attention to uplink.
- It needs to be optimized, when MAC padding is higher than 50%.
- If grants is less than 20ms or more than 30 ms , UL transmissions will have more than 75% padding.

VOIP Padding :

- Some amounts of padding are expected due to RTP payload size and TB size granularity.
- For grants arriving less than 20 ms , a VOIP payload has not been generated and the grant must then be used with close to 100 % padding.

VOIP related parameters :

- LogicalchannelSR-mask
- SR-prohibit timer
- Short SR period
- CQI mask
- Explicit congestion notification
- Handover parameters (A3 parameters)
- RLC and HARQ parameters