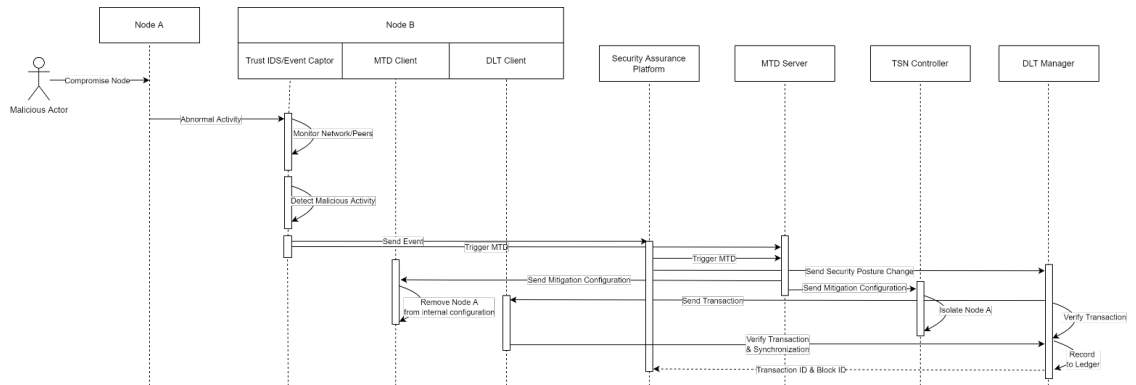


IntelloT component available for OC #2 integration - Details

Name	MTD
Responsible partner(s)	Telecommunication Systems Institute (TSI)
Brief description	Moving Target Defence (MTD) is a technology that changes the network configuration dynamically over time, in order to interrupt ongoing attacks and prevent possible new ones. By using MTD, the communication landscape changes frequently making it hard for an external attacker to target specific devices and services, while it is able to isolate offending nodes by excluding them from the updated network configurations. The MTD application has two main components: (i) a central server that computes new network configurations periodically or as a result of specific events and (ii) one MTD client component per node that applies the network configuration changes.



Interfacing (I/O)

The MTD server communicates with all other security components through the RabbitMQ message broker. It also has dedicated message queues with all MTD clients. The MTD server can also communicate through a Rest API to third party components capable of isolating network nodes (e.g. network controllers).

Main interactions

Main interactions of the MTD server include exchange of messages through the RabbitMQ broker with the Trust-based IDS, SAP and the MTD clients. The MTD server also communicates through a Rest API with the TSN controller. Deliverable D2.6, subsection 2.2.3, provides for more details regarding main component interactions involving MTD.

Deployment

MTD Server can be deployed as Docker container.
MTD Client requires administrator access to Linux Network Stack. It can be deployed as privileged Docker container.

Licensing

Proprietary

Deliverable references

Please refer to deliverable **D2.6 – “High level architecture (final version)”, subsections 2.1.3, 2.2.3, 2.3.3 & 2.4.3**, for more details regarding interfacing & integration of MTD and other trust components & deliverable **D4.4 – “Trust mechanisms (first version)”, section 2**, for more details on the design and development of the component.

