Workplan for the next weeks

Attack scenarios

The main objective is the development of several C examples that illustrate different attack scenarios. Security and access control policies should be modified for each scenario.

No timing measures are required.

Documentation:

- See page 142 (DDS Security SDK) in DDS Micro user guide
- See the Security Plugins manual
- Getting started (only for C++)

Expected output:

- One folder holding the C example for each Hands-On defined in the getting started guide.

Discovery overhead

The main objective is to have a rough estimation of the discovery time, with and without security enabled.

Scenario 1:

- Distributed application: 2 binaries, one publisher and one subscriber
- Can be executed in localhost? Yes, but each process should be bound to a different cpu core (e.g., using taskset CLI tool)

To this end, the POSIX **clock_gettime** can be used together with the **CLOCK_MONOTONIC**. For this test, discovery takes from the creation of the Participant until a matching subscriber is identified (Note that when a matching subscriber is identified a DDS listener is executed)

Expected output:

- Discovery time for regular DDS distributed app
- Discovery time for secure DDS distributed app

Scenario 2:

- Distributed application: 3 binaries, one publisher, one subscriber, one unauthorized subscriber
- Can be executed in localhost? Yes, but each process should be bound to a different cpu core (e.g., using taskset CLI tool)

Expected output:

- Discovery time for secure DDS distributed app