TARGET Instant Payment Settlement
Latency Measures

TIPS Contact Group #3
Perimeter

TIPS Latency = T1 + T2
Environment

- TIPS application is under development into a temporary environment (Banca d’Italia domestic server farm) with a similar topology (e.g. multiple parallel instances) but less powerful hardware.

- Some features, potentially affecting the latency, have not been implemented so far, such as:
  - Internal security (database, broker, local authentication)
  - Multi-site stretching cluster
Conditions

Average latency per 1 minute, under:

- Low workload (100 ip/sec)
- Moderate workload (250 ip/sec)
- Nominal workload (500 ip/sec)
Results

Average Latency

5 sec

Requirements

192 ms
100 Low

435 ms
250 Moderate

850 ms
500 Nominal
Conclusions

TIPS application behaves as expected and no bottlenecks have been found at the current stage of the implementation.

The test campaign will be repeated in June 2018 when a testing environment with a configuration more close to the production one will be available.