**T3: Event Dispatching (Event Notification Service)**

**Main Functionality**

- The Event Notification Service is a middleware component that acts as a flexible and scalable connector among event sources (i.e., Publishers) and event consumers (i.e., Subscribers).
- In the IoT@Work project the ENS is used to collect and dispatch in near-real-time events coming from devices and services operating in the shop floor or a production facility.
- Events are aggregated in specific, disjoint, hierarchical namespaces for processing and access control convenience.

**Main Advantages**

- Complete decoupling of events’ sources and consumers
- Bringing data to the interested consumers instead of bringing consumers to data
- Scalability and reconfiguration flexibility
- Advanced, flexible and scalable access control features
- Dynamic and smooth addition of new events’ sources and consumers (zero downtime)

**Demo Use**

- Several client applications (e.g., MES and event-driven applications)
- Creation of new event name spaces on the fly
- Similar modelling of services and name spaces
- Linking events through complex event processors