

Interoperability Summary of Discussions

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SC25 Interoperability Project: Current Status

- Part 2: Interoperability Framework Specification
 - It has specified a translation framework, processes and their management
 - Real devices in different HES clusters are connected to one (or more) interoperability gateways, where proxy objects can be created to represent them. It is these proxy objects that interact within the gateway(s) using an event bus.
 - The device manufacturer defines and implements the mapping of its device attributes, properties and actions to the right interoperable domain object.
- Part 3: Application Models
 - Existing technical reports to be converted into application profiles, which device manufacturers can use to map their devices into.

Why interoperability objects and the event bus?

- Interoperability objects are needed because there is no possibility to have a simple data-type-based translation of the objects from systems with different object interaction models.
- The event bus is needed to allow the interoperability objects communicate in the interoperability domain.
- Obviously, the event bus has to meet certain requirements, one of which is the ability to allow interoperable objects to maintain temporal relationships between events.

Where were we yesterday?

- Why time-stamping of events?
 - It is used in the interoperability domain to establish temporal relationships between events distributed over an asynchronous bus (what event came first in a distributed environment, not what packet arrived at what absolute time)
 - It is one of many possible solutions, and the one favoured by the editors after careful consideration.
- Where does it happen?
 - Only within the interoperability domain
- Does the standard requires every real application device (e.g. a light switch or a meter or a washing machine) to support event time-stamping or not?
 - **No, absolutely not.** The event time-stamping is not visible, or related in any way, with any time-stamping that manufacturers may or may not consider using in their devices and applications in the home.

Event time-stamping in interop domain

