

Which type of domain is the sensors group, in the same process area with TSN Domain 1?

- **option A:** a non-TSN domain, then we have it covered in the Use Cases document, half of Use Case 18, we would need to find a good priority regeneration concept to support the resource reservations in Industrial Bridge 1, over requests from Industrial Bridge 7; in this case, we do not need to support clock synchronization in the sensors and they will be non-TSN end stations.

- **option B:** a TSN domain, but then we need to have sensors which support clock synchronization; we may keep it separate to the TSN Domain 1, for the sakes of ease of traffic configuration in Process Area; then the Industrial Bridge 7 must be able to at least forward the time from a grandmaster to the sensor slaves. Then one may need a CNC/IA-ME for this domain, which could potentially be placed in the Industrial Bridge 7. Here the sensors would be class B TSN conformant end stations. The Industrial Bridge 7 can be a class B or a class A TSN bridge.

- **option C:** Mix it inside the TSN Domain 1; possibly this may be requested by the way the geographical localisation of the devices in made in Process Area 1. Here there are some issues:
 --- either we need sensors which can support clock synchronization and can be at least TSN class B conformant end stations (or even class A, depending on the acceptable costs); same discussion applies for Industrial Bridge 7;
 --- either we need sensors which are non-TSN end stations, but then we need to accept their traffic will be best-effort.

I guess all these options are possible.

