

**Protocol 12. Meeting Di, 02.03.11 14.00 – 15.00**

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***Event Connection***

- Main-Argument For the "Event Connection": Easy Data Corellation
- How to provide data correlation in FESA3 ?
  - Problems:
    - Not every FESA device is connected to the timing system  
--> Not possible to provide cycle stamp for all devices
    - How to correlate device-data (same cycle-stamp) between a DC device and a event-triggered device in FESA?
  - Possible Solution 1 (Prefered Solution):
    1. Get the information, if the device/property is event driven or not
    2. subscribe to both devices/properties (and obtain init value)
    3. On "valueUpdate" of the event driven device (each cycle), just use the init value of the DC device, if not changed to correlate.
  - Possible Solution 2:
    1. A Gateway (A dedicated FEC with TIF) privides a special property, which simulates "Event Connection". This Property would do a cycle-based "get" to the DC device (always at Cyclestart) and add the cyclestamp to the value.
  - Possible Solution 3:
    1. Specify in advance, if a class is meant to be correlated
    2. If yes, the FEC where the class runs needs a TIF. The class than does a periodic measurement at cyclestart(or cycleEnd?)
    3. For that class the cyclestamp is always provided per default.
- Agreement:
  - Data Corellation between an Event-Based and a DC class is one of the services, which needs to be tested , as soon as we implemented some first realistic Fesa3 classes.