

>If one tries to map your approach to an agile approach, where would you map a FC: feature, an epic or story?

I am not familiar enough with the agile approach to provide an appropriate answer, sorry.

>Do you generate something out of the FCs?

For the moment, no. We only generate diagrams (PAB and PFCD: Physical Functional Chain Description) but the idea is to generate files which explain the functional chain, the origin, and the links with all the requirements that are fulfilled by this functional chain.

> Related to the question of latencies, to what level of detail did you model (simulate) the implications of AXI4-lite and AXI4-streaming interfaces in order to analyze the latency impact?

The AXI bus was not simulated. The latency introduced by the interconnect is considered as negligible because it is a multi-channel Gbit/s communication link which is far better than other latency contributors are.

> You are showing functional chains at physical level. Are they a flow-down/transition of FC already defined at a higher level with the ARCCADIA methodology?

Actually, it is not what has been done. Partly yes but not for all the functional chains. We started with one functional chain at logical layer and then flowing it down to a functional chain at physical layer.

> How did you model the latencies for functional chains? Are "latencies" attributes of the model, if so, of which model elements?

The latencies are not modelled in Capella. Here the latencies are the results of the simulation of the MOST tool and are not modeled and statically computed, they are dynamically computed for each message.

> Why did you start the activity on "physical level". How about functional chains on "logical level"?

Actually, we have started the activity with an existing model at logical layer but the functional chains were only represented by few functions (2 to 3 logical functions and functional exchanges).

We did a transition to the physical layer and then detailed the physical functions and the functional chains associated to avionics functions, based on the logical layer.