

Scope of 19763-5

2010-05-26

Current scope of 19763-5

- The metamodel specified in this part is intended to promote **discovery and reuse of process models** within/across process model repositories.
- For the purpose, it provides **administrative information and common semantics** of process models created with a specific process modeling language
- In that case, the metamodel can help **discover exposed functions** of a process and **reuse its components** at different levels of granularity, rather than all of them.
- *from WG2N1421: SP5 of 19763-5*

Now we are thinking.....

- MFI-5 is for RGPS
 - Process is one kind of service-related model
- MFI-5 should provide semantics of services, rather than a general metamodel for various process models
 - Support semantic discover of a service
 - Help orchestration of Web services

What is the semantic of services

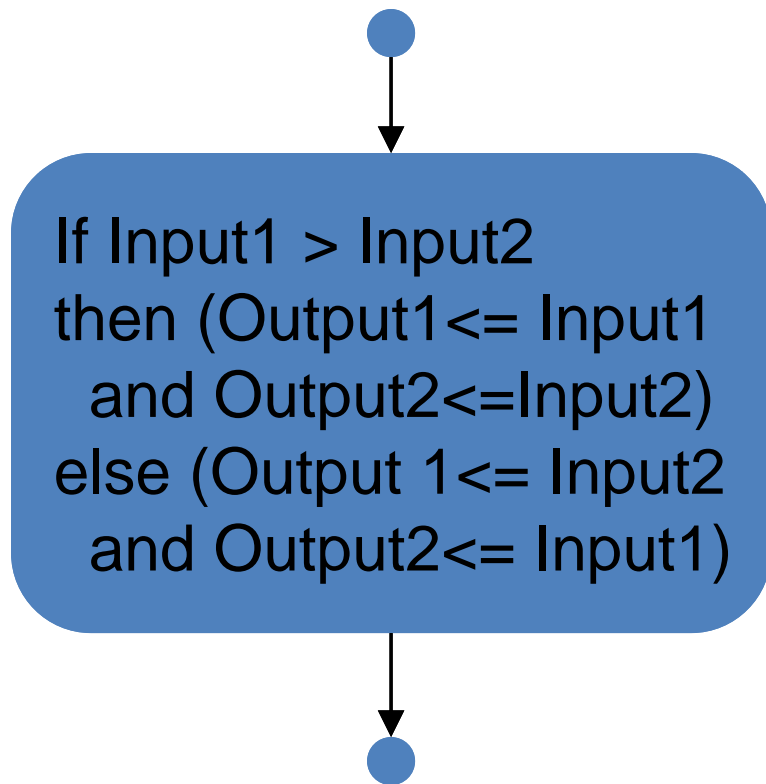
Let's think about a toy example

- Let's think about a service that achieves the following things.
- Precondition:
 - 2 different integers in Input1, Input2
- Postconditions:
 - $\text{Output1} \leq \text{Max}(\text{Input1}, \text{Input2})$
 - $\text{Output2} \leq \text{Min}(\text{Input1}, \text{Input2})$

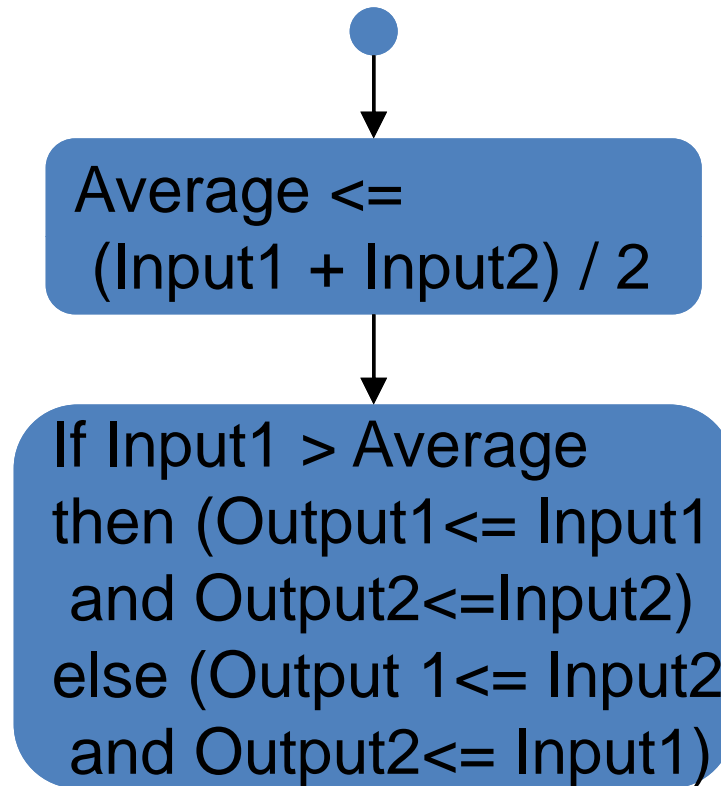
(i.e. to sort two different integers)

Process models realized by this service (1 of 2)

- Two different process models (in some same language or different languages)



From Masao san



This is a very awkward algorithm, but just for discussion.

Process models realized by this service (2 of 2)

- The question is whether these two process models have the same one process or not.
- If yes, how the process can be decomposed to the current MFI Part5 metamodel.
- If no, at least, the multiplicity from Service to Process need to be relaxed to many, and Process many not be necessary, since Process model exists.

We think they are two different processes.

So the multiplicity from Service to Process will be changed to 0..*.

That is to say

- The function of these two process models are the same
- We want to confirm whether the function of a process
 - is addressed by input, output, precondition and post condition of a process
 - has no relation with
 - which sub-processes are involved
 - the sub-processes are connected in which order

If so....

- Main elements in MFI-5
 - Process
 - Process_Model, Process_Modeling_Language
 - Consumed Resource (Input), created resources(Output), Precondition, Postcondition
 - Atomic process, composite process
- Any comments from NBs?