

Questionnaire Toolset

Tools

The *Tools* folder contains the following tools:

1. *Quaestio*

This tool interactively generates questions given a questionnaire model as input (.cml). A questionnaire model captures the variability of a domain in terms of questions and possible answers. The answers from a questionnaire can be exported in a configuration (.xml).

2. *Process Configurator*

This tool applies a configuration (.xml) to a configurable model (e.g. a process model), by using a mapping (.cmap) between the questionnaire model and the configurable model. The output is a configured version of the configurable model given as input.

As per configurable model, it supports the following process modeling notations:

- C-EPC (.epml): the output will be a configured C-EPC model (.epml)
- C-YAWL (.xml): the output will be a configured C-YAWL model (.xml)

3. *Process Individualizer*

This tool individualizes a configured version of a configurable model, by performing a derivation/clean-up algorithm.

It supports the following process modeling notations:

- configured C-EPC (.epml): the output will be a well-formed EPC model (.epml)
- configured C-YAWL (.xml): the output will be a well-formed YAWL model (.xml)

The *bddc* folder within the *Tools* folder contains the an SBDD calculator (<http://www-verimag.imag.fr/PEOPLE/Pascal.Raymond/tools/bddc-manual/bddc-manual-pages.html>) on which *Quaestio* relies for constraints checking.

Requirements

- Java J2RE 1.5 or above (<http://www.java.com>)
- Operating system: MS Windows, Linux or Solaris.

Schemas

The *Schemas* folder contains the following XML schema files:

1. *CModel.xsd*: describes the input files accepted by *Quaestio* (questionnaire models),
2. *CResult.xsd*: describes the output files exported by *Quaestio* (configurations of questionnaire models),
3. *CM_Mapping.xsd*: describes the mapping files accepted by the Process Configurator (it supports mapping to C-EPC and C-YAWL notations)
4. *EPML_12.xsd*: describes (C-)EPC process models (<http://www.epml.de>),
5. *YAWL_SchemaBeta7.1.xsd*: describes (C-)YAWL process models (<http://yawlfoundation.org>).

Examples

The *ScreenBusiness Example* folder contains the files related to the configuration of the Post-Production Example (www.screenbusiness.org) - a screen-business process modelled in C-EPC and C-YAWL:

Questionnaire Models (folder):

1. *P-P_CM.cml*: basic model,
2. *P-P2_CM.cml*: a more complex version of the same model (beta),

Process Models (folder):

1. *P-P_EPC.epml*: C-EPC process model,
2. *P-P_YAWL.xml*: C-YAWL process model.

Mappings (folder):

1. *P-P_mapping.cmap*: contains the mapping from *P-P_EPC.epml* to *P-P_CM.cml* and from *P-P_YAWL.epml* to *P-P_CM.cml*
2. *P-P_mappingC-EPC*: contains only the C-EPC to CM mapping,
3. *P-P_mappingC-YAWL.cmap*: contains only the C-YAWL to CM mapping.

C-EPC Configuration (folder):

1. *P-P_configuration.xml*: a sample configuration for the questionnaire model,
2. *P-P_EPC_cnfd.epml*: configured C-EPC of the process model,
3. *P-P_EPC_cnfd_EPC.epml*: individualized EPC of the process model.

The *VICS Example* folder contains the files related to the configuration of the VICS Example (Voluntary Inter-industry Commerce Standard, http://www.uc-council.org/ean_ucc_system/stnds_and_tech/vics_edi.html) - an order fulfilment collaborative process model represented in YAWL:

1. *VICS_CM.cml*: questionnaire model,
2. *VICS_configuration.xml*: a sample configuration for the questionnaire model,
3. *VICS_ProcessModel.pdf*: a picture of the VICS process model in the YAWL notation, where facts have been mapped to process fragments,
4. *VICS_ProcessModel_configured.xml*: a picture of the configured VICS process model in the YAWL notation, depicting only those process fragments corresponding to the facts set to true in the configuration.