ODRL Generic Rule Evaluation Flow

(revision 3, 2018-01-08)

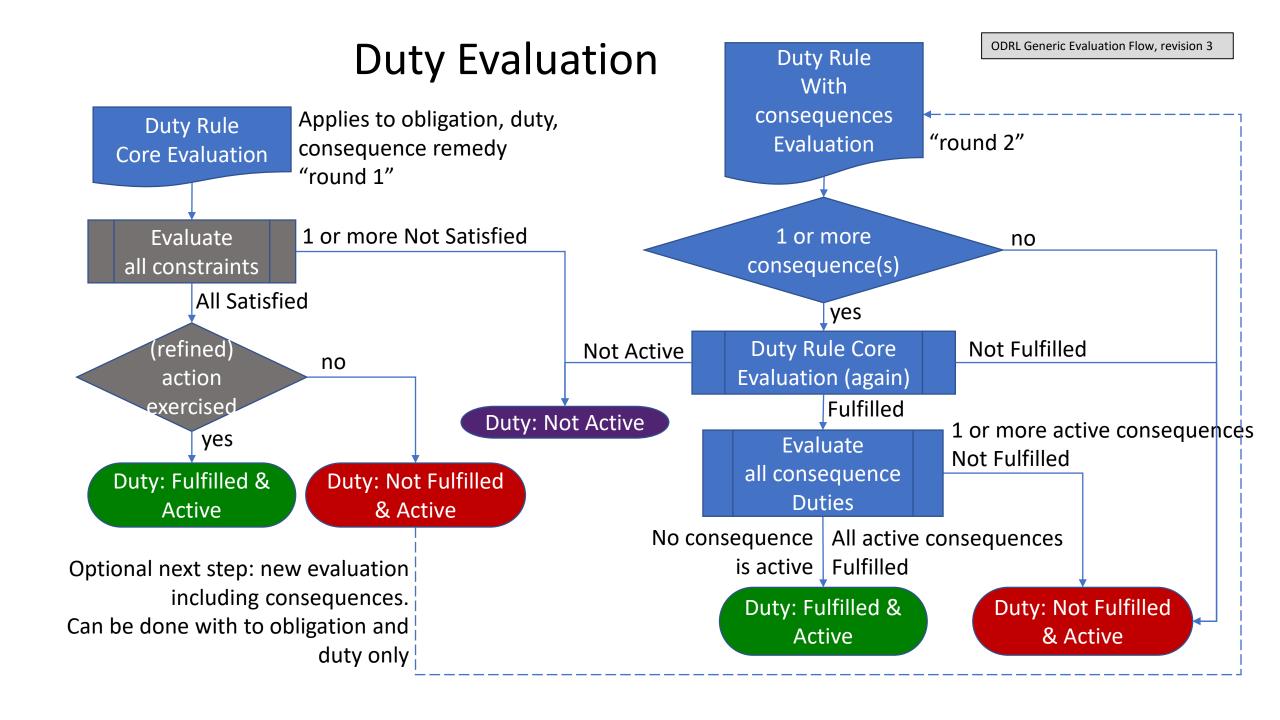
Based on the ODRL Information Model (IM) Proposed Recommendation of 4 January 2018, https://www.w3.org/TR/odrl-model/ By Michael Steidl (IPTC/NewsIT)

This document covers how a Logical/Constraint, a Duty, a Permission or a Prohibition should be evaluated in a generic way.

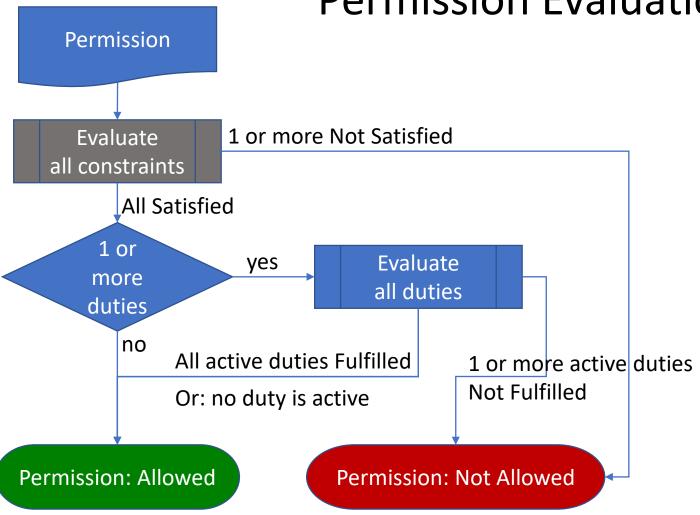
Legend:

- Process or decision boxes in blue: evaluated as defined by the IM
- Process or decision boxes in grey: considered as black box, generating/retrieving these values is not part of a Generic Rule Evaluation, only their state is considered.
- _____ = an evaluation process covered by this document and/or the IM
- Casing:
- -- properties start with lower case (constraint, duty, obligation, consequence, remedy)
- -- classes start with upper case (Rule, Duty, Permission, Prohibition)

ODRL Generic Evaluation Flow, revision 3 Any Rule **Constraint Evaluation** with constraint(s) For each constraint: Constraint class instance Is a yes Compare 2 operands by an operator as Constraint defined by the IM and the specific referenced LeftOperand instance no Logical Constraint class instance Is a Logical yes Compare 2 or more Constraint class Constraint instances by a logical operator as defined by referenced the IM State of a constraint evaluation: Not-/Satisfied Generate final state by Satisfied ANDing the states of all **Not Satisfied** constraints



Permission Evaluation



Prohibition Evaluation

