RPA

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Chapter 1

RPA

RPA stands for Robotic process automation. It is an emerging form of business process automation technology based on the notion of software robots or artificial intelligence (AI) workers.[1] It is an application of technology, governed by business logic and structured inputs, aimed at automating business processes. Using RPA tools, a company can configure software, or a “robot,” to capture and interpret applications for processing a transaction, manipulating data, triggering responses and communicating with other digital systems. RPA scenarios range from something as simple as generating an automatic response to an email to deploying thousands of bots, each programmed to automate jobs in an ERP system.

Chapter 2

Module Documentation

2.1 Entities

2.1.0.1 ogit/RPA/Object

An object is anything that has a fixed shape or form, that you can touch or see, and that is not alive.

- id: http://www.purl.org/ogit/RPA/Object
- valid-from: Thu Mar 21 00:00:00 UTC 2019
- creator: Kaushik Gondaliya
- scope: NTO
- parent: ogit/Node

incoming edges

- ogit/belongs <= ogit/RPA/Robot

2.1.0.2 ogit/RPA/RoboticEnvironment

An known environment to Robot where its operates.

- id: http://www.purl.org/ogit/RPA/RoboticEnvironment
- valid-from: Thu Mar 21 00:00:00 UTC 2019
- creator: Kaushik Gondaliya
- scope: NTO
- parent: ogit/Node

incoming edges

- ogit/RPA/Operates <= ogit/RPA/Robot

2.1.0.3 ogit/RPA/Controller

Controller to control the robot.

- id: http://www.purl.org/ogit/RPA/Controller
- valid-from: Thu Mar 21 00:00:00 UTC 2019
- creator: Kaushik Gondaliya
- scope: NTO
- parent: ogit/Node

incoming edges

- ogit/consistsOf <= ogit/RPA/Robot

2.1.0.4 ogit/RPA/Sensor

Sensor is a device, module, or subsystem whose purpose is to detect events or changes in its environment and send the information to other electronics, frequently a computer processor. example sensors are Lasser Scanner, Camera etc.

- id: http://www.purl.org/ogit/RPA/Sensor
- valid-from: Thu Mar 21 00:00:00 UTC 2019
- creator: Kaushik Gondaliya
- scope: NTO
- parent: ogit/Node

incoming edges

- ogit/consistsOf <= ogit/RPA/Robot

2.1.0.5 ogit/RPA/Robot

A robot is a machine—especially one programmable by a computer— capable of carrying out a complex series of actions automatically. Robots can be guided by an external control device or the control may be embedded within. Robots are machines designed to perform a task with no regard to how they look.

- id: http://www.purl.org/ogit/RPA/Robot
- valid-from: Thu Mar 21 00:00:00 UTC 2019
- creator: Kaushik Gondaliya
- scope: NTO
- parent: ogit/Node

attributes

- optional:
  - ogit/BatteryState
  - ogit/RPA/Odometry

outgoing edges

- ogit/RPA/Operates => ogit/RPA/RoboticEnvironment
- ogit/belongs => ogit/RPA/Object
- ogit/consistsOf => ogit/RPA/Controller
- ogit/consistsOf => ogit/RPA/Sensor
- ogit/isPartOf => ogit/RPA/RoboticSystem

2.1.0.6 ogit/RPA/RoboticSystem

An integrated system which used robots for automation.

- id: http://www.purl.org/ogit/RPA/RoboticSystem
- valid-from: Thu Mar 21 00:00:00 UTC 2019
- creator: Kaushik Gondaliya
- scope: NTO
- parent: ogit/Node

incoming edges

- ogit/isPartOf <= ogit/RPA/Robot

2.2 Verbs

2.2.0.1 ogit/RPA/Operates

entity operates on in aonther entity. Robot operates in Robotic environment.

- id: http://www.purl.org/ogit/RPA/Operates
- valid-from: Thu Mar 21 00:00:00 UTC 2019
- creator: Kaushik Gondaliya

Allowed Connection

- ogit/RPA/Robot => ogit/RPA/RoboticEnvironment

2.2.0.2 ogit/belongs

Verb showing if one entity belongs to another.

- id: http://www.purl.org/ogit/belongs
- valid-from: Thu May 21 00:00:00 UTC 2015
- creator: Peter Larem

Allowed Connection

- ogit/RPA/Robot => ogit/RPA/Object

2.2.0.3 ogit/consistsOf

It shows, that the destination entity is a non-exclusive part of the source.

- id: http://www.purl.org/ogit/consistsOf
- valid-from: Tue Feb 13 00:00:00 UTC 2018
- creator: Aymen Ayoub

Allowed Connection

- ogit/RPA/Robot => ogit/RPA/Controller
- ogit/RPA/Robot => ogit/RPA/Sensor

2.2.0.4 ogit/isPartOf

Indicates if an entity is part of another entity.

- id: http://www.purl.org/ogit/isPartOf
- valid-from: Fri Mar 22 00:00:00 UTC 2019
- creator: Kaushik Gondaliya

Allowed Connection

- ogit/RPA/Robot => ogit/RPA/RoboticSystem

2.3 Attributes

2.3.0.1 ogit/RPA/Odometry

Current absolute robot position, as measured from startup point.

- id: http://www.purl.org/ogit/RPA/Odometry
- valid-from: Fri Mar 22 00:00:00 UTC 2019
- creator: Kaushik Gondaliya

used

- optional:
  - ogit/RPA/Robot

2.3.0.2 ogit/BatteryState

current battery state of the device.

- id: http://www.purl.org/ogit/BatteryState
- valid-from: Fri Mar 22 00:00:00 UTC 2019
- creator: Kaushik Gondaliya

used

- optional:
  - ogit/RPA/Robot