Nota 1: per i submodel elements con kind = instance, l'attributo semanticId è stato omesso se la semantica del suddetto elemento è la stessa della semantica del suo tipo

Nota 2: le molteplicità 1 sono omesse nelle relazioni per questioni di leggibilità

id=www.test.com/aas-vg/1.0

<<AssetAdministrationShell>>
AAS_VG
- version = 1
- revision = 0

<<ConceptDictionary>>
SampleDic
+dictionaries:1

id=http://www.test.com/536630
<<Asset>>
536630
- kind = Instance

- asset «ref»
+submodels:1 - identification

<<Submodel>>
Identification
- kind = Instance
- semanticId = http://www.test.com/identificationType

<<Property>>
AssetSerialNumber
- kind = Instance
- category = CONSTANT
- value = TODO
+submodelElements:1

<<Property>>
AssetManufacturer
- kind = Instance
- category = CONSTANT
- value = Fischertechnik
+submodelElements:2

id=http://www.test.com/identification2

id=http://www.test.com/identificationType
<<Submodel>>
Identification
- kind = Type
- semanticId = description (IT) src.Ft.codh/001

<<Property>>
AssetSerialNumber
- kind = Type
- semanticId = http://www.test.com/002
- category = CONSTANT
- value: string
+submodelElements:1

<<Property>>
AssetManufacturer
- kind = Type
- semanticId = http://www.test.com/005
- category = CONSTANT
- value: string
+submodelElements:2

id=http://www.test.com/identificationType

HasSemantics «ref»

+submodels:2

<<Submodel>>
Configuration
- kind = Instance
- semanticId = http://www.test.com/configurationType

id=http://www.test.com/configuration2

<<File>>
536630-Vacuum_Gripper_Robot_24V
- kind = Instance
- mimeType = application/pdf
- value = https://drive.google.com/file/d/15k3wB cavtV-Tv5XV1flkxuhFM9Y4GE0G/view?usp=sharing
+submodelElements:1

id=http://www.test.com/configurationType
<<Submodel>>
Configuration
- kind = Type
- semanticId = http://www.test.com/003

<<File>>
DataSheet
- kind = Type
- semanticId = http://www.test.com/004
- mimeType: string
- value: string
+submodelElements:1
0..*

HasSemantics «ref»

+submodels:3

id=http://www.test.com/vacuumGripper2
<<Submodel>>
VacuumGripper
- kind = Instance
- semanticId = http://www.test.com/gripperType1

<<Operation>>
PickUp
- kind = Instance
+submodelElements:1

<<Operation>>
SetDown
- kind = Instance
+submodelElements:2

<<Operation>>
Move
- kind = Instance
- in: Terminal-SwitchVerticalAxis [1], Terminal-SwitchHorizontalAxis [1], Terminal-SwitchRotate [1]
+submodelElements:3

id=http://www.test.com/gripperRobot
<<Submodel>>
VacuumGripperRobot
- kind = Type
- semanticId=http://www.test.com/006

<<Operation>>
PickUp
- kind = Type
- semanticId = http://www.test.com/007
+submodelElements:1

<<Operation>>
SetDown
- kind = Type
- semanticId = http://www.test.com/018
+submodelElements:2

<<Operation>>
Move
- kind = Type
- semanticId = http://www.test.com/029
- in: Terminal [3]
+submodelElements:3

<<OperationVariable>>
coordinate
- kind = Type
- value: Terminal

<<Property>>
Terminal
- kind = Type
- semanticId = http://www.test.com/009
- category = VARIABLE
- value: real
+submodelElements:4

HasSemantics «ref»

<<Property>>
AssetSerialNumber
- kind = Type
- semanticId = http://www.test.com/002
- category = CONSTANT
- value: string

<<Property>>
AssetManufacturer
- kind = Type
- semanticId = http://www.test.com/005
- category = CONSTANT
- value: string

<<File>>
DataSheet
- kind = Type
- semanticId = http://www.test.com/004
- mimeType: string
- value: string

<<DataSpecification>>
TerminalData
- description
id=http://www.test.com/terminalDataTemplate
HasDataSpecification «ref»

<<DataSpecificationContent>>
- terminalType: string
- terminalNumber: int
- description: string

<<Property>>
Terminal-SwitchVerticalAxis
- kind = Instance
- semanticId = http://www.test.com/040
- category = VARIABLE
- terminalType = input (I1)
- terminalNumber = 5
- description = reference switch vertical axis
- value = 0.0
+submodelElements:4

<<Property>>
Terminal-SwitchHorizontalAxis
- kind = Instance
- semanticId = http://www.test.com/040
- category = VARIABLE
- terminalType = input (I2)
- terminalNumber = 6
- description = reference switch horizontal axis
- value = 0.0
+submodelElements:5

<<Property>>
Terminal-SwitchRotate
- kind = Instance
- semanticId = http://www.test.com/040
- category = VARIABLE
- terminalType = input (I3)
- terminalNumber = 7
- description = reference switch rotate
- value = 0.0
+submodelElements:6

<<ConceptDescription>>
Identification
- preferredName (EN) = Identification
- preferredName (IT) = Identificazione
- description (IT) = Submodel contenente informazioni sull'identificazione dell'Asset
id=http://www.test.com/001
+conceptDescriptions:1

<<ConceptDescription>>
Identification
- preferredName (EN) = AAS Id
- preferredName (IT) = Id AAS
- description (IT) = Numero seriale dell'asset
id=http://www.test.com/002
+conceptDescriptions:2

<<ConceptDescription>>
AssetManufacturer
- preferredName (EN) = Communication
- preferredName (IT) = Comunicazione
- description (IT) = Produttore dell'asset
id=http://www.test.com/005
+conceptDescriptions:5

<<ConceptDescription>>
Configuration
- preferredName (EN) = Configuration
- preferredName (IT) = Configurazione
- description (IT) = Submodel contenente informazioni sulla configurazione dell'AAS
id=http://www.test.com/003
+conceptDescriptions:3

<<ConceptDescription>>
DataSheet
- preferredName (EN) = DataSheet
- preferredName (IT) = DataSheet
- description (IT) = File contenente il datasheet dell'asset
id=http://www.test.com/004
+conceptDescriptions:4

<<ConceptDescription>>
Terminal
- preferredName (EN) = Terminal
- preferredName (IT) = Terminale
- description (IT) = Terminale di input o output
- unit = V
id=http://www.test.com/009
+conceptDescriptions:16

<<ConceptDescription>>
MotorTerminal
- preferredName (EN) = Motor terminal
- preferredName (IT) = Terminale motore
- description (IT) = Terminale relativo ad un motorino elettrico
- unit = V
id=http://www.test.com/017
+conceptDescriptions:17

<<ConceptDescription>>
VacuumGripper
- preferredName (EN) = VacuumGripper
- preferredName (IT) = Aspiratore a vuoto
- description (IT) = Elemento responsabile dello spostamento dei blocchi di produzione
id=http://www.test.com/006
+conceptDescriptions:6

<<ConceptDescription>>
SwitchTerminal
- preferredName (EN) = Switch Terminal
- preferredName (IT) = Terminale Switch
- description (IT) = Terminale relativo ad uno switch
- unit = V
id=http://www.test.com/040
+conceptDescriptions:40

<<ConceptDescription>>
PickUp
- preferredName (EN) = PickUp
- preferredName (IT) = Raccogli
- description (IT) = Operazione di sollevamento del blocco di produzione per effettuarne lo spostamento
id=http://www.test.com/007
+conceptDescriptions:7

<<ConceptDescription>>
SetDown
- preferredName (EN) = SetDown
- preferredName (IT) = Rilascia
- description (IT) = Operazione rilascio del blocco di produzione per effettuare lo spostamento
id=http://www.test.com/018
+conceptDescriptions:18

<<ConceptDescription>>
LightBarrierTerminal
- preferredName (EN) = Light barrier Terminal
- preferredName (IT) = Terminale sensore luminoso
- description (IT) = Terminale relativo ad un sensore luminoso
- unit = V
id=http://www.test.com/041
+conceptDescriptions:41

<<ConceptDescription>>
VacuumGripper-x
- preferredName (EN) = x coordinate
- preferredName (IT) = coordinata x
- description (IT) = Coordinata x relativa alla posizione del vacuum gripper.
- unit = ?
id=http://www.test.com/019
+conceptDescriptions:19

<<ConceptDescription>>
VacuumGripper-y
- preferredName (EN) = y coordinate
- preferredName (IT) = coordinata y
- description (IT) = Coordinata y relativa alla posizione del vacuum gripper.
- unit = ?
id=http://www.test.com/020
+conceptDescriptions:20

<<ConceptDescription>>
VacuumGripper-z
- preferredName (EN) = z coordinate
- preferredName (IT) = coordinata z
- description (IT) = Coordinata z relativa alla posizione del vacuum gripper.
- unit = ?
id=http://www.test.com/021
+conceptDescriptions:21

<<ConceptDescription>>
Move
- preferredName (EN) = move
- preferredName (IT) = sposta
- description (IT) = Operazione di spostamento del braccio del vacuum gripper. Prende in input le coordinate di destinazione (x,y,z)
id=http://www.test.com/029
+conceptDescriptions:29