

Graph: <https://www.abonyilab.com/wh-ontology#>

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A-Z of terms

This is a complete alphabetical A-Z index of all terms, by main logical type.

Classes (27)

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Object Properties (26)

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Datatype Properties (58)

[hckg:DASMessage](#) | [hckg:DASName](#) | [hckg:DASdeviceId](#) | [hckg:KPICategory](#) | [hckg:KPIOperatorType](#) | [hckg:KPIType](#) | [hckg:KPIValue](#) | [hckg:KPI_ID](#) | [hckg:activityID](#) | [hckg:activityTypeID](#) | [hckg:activityTypeName](#) | [hckg:activityTypeRemark](#) | [hckg:activityTypeUnit](#) | [hckg:additionalTime](#) | [hckg:alarmLimit](#) | [hckg:averageActivityTime](#) | [hckg:capabilityCost](#) | [hckg:capabilityDescription](#) | [hckg:capabilityID](#) | [hckg:capabilityName](#) | [hckg:competenceLevel](#) | [hckg:energySupplyCost](#) | [hckg:energySupplyID](#) | [hckg:energySupplyName](#) | [hckg:equipmentCondition](#) | [hckg:equipmentCost](#) | [hckg:equipmentID](#) | [hckg:equipmentName](#) | [hckg:equipmentType](#) | [hckg:facilityID](#) | [hckg:facilityType](#) | [hckg:locationID](#) | [hckg:logDataValue](#) | [hckg:logTime](#) | [hckg:machineCondition](#) | [hckg:machineCost](#) | [hckg:machineID](#) | [hckg:machineType](#) | [hckg:observationID](#) | [hckg:observationName](#) | [hckg:observationValue](#) | [hckg:operatorCost](#) | [hckg:personnelID](#) | [hckg:qualification](#) | [hckg:relatedAssets](#) | [hckg:resultID](#) | [hckg:resultTypeID](#) | [hckg:resultTypeName](#) | [hckg:robotCondition](#) | [hckg:robotCost](#) | [hckg:robotID](#) | [hckg:robotType](#) | [hckg:sensorCost](#) | [hckg:sensorID](#) | [hckg:sensorReadingValue](#) | [hckg:sensorType](#) | [hckg:sourceID](#) | [hckg:warningLimit](#)

Annotation Properties (1)

[dc:isPartOf](#)

Classes

Class: [hckg:Activity](#) [back to top](#)

- owl:Thing
 - hckg:Activity

NOTE hckg:Activity is a leaf node.

Description

Inherits from:

owl:Thing

Property Domain of:

[hckg:activityID](#) | [hckg:activityTypeID](#) | [hckg:activityTypeName](#) | [hckg:activityTypeRemark](#) | [hckg:activityTypeUnit](#) | [hckg:additionalTime](#) | [hckg:averageActivityTime](#) | [hckg:activityHasPrecedence](#) | [hckg:activityHasResult](#) | [hckg:activityRequiresCapability](#) | [hckg:activityRequiresManufacturingFacility](#) | [hckg:activityRequiresOperator](#) | [hckg:activityRequiresResource](#)

Property Range of:

[hckg:componentRequiresActivity](#)

Implementation:

@prefix hckg: <<https://www.abonyilab.com/wh-ontology#>> .
 @prefix owl: <<http://www.w3.org/2002/07/owl#>> .

hckg:Activity a owl:Class .

Class: [hckg:AssemblyStation](#) [back to top](#)

- [smo:ManufacturingFacility](#)
 - hckg:AssemblyStation

NOTE hckg:AssemblyStation is a leaf node.

Description

Inherits from (3):

[smo:ManufacturingFacility](#) | [sosal:FeatureOfInterest](#) | [sosal:ObservableProperty](#)

Property Domain of:

[hckg:facilityID](#) | [hckg:facilityType](#) | [hckg:locationID](#)

Implementation:

@prefix hckg: <<https://www.abonyilab.com/wh-ontology#>> .
 @prefix owl: <<http://www.w3.org/2002/07/owl#>> .
 @prefix rdfs: <<http://www.w3.org/2000/01/rdf-schema#>> .
 @prefix smo: <<http://www.semanticweb.org/manufacturingproductionline#>> .

```
hckg:AssemblyStation a owl:Class ;
rdfs:subClassOf smo:ManufacturingFacility .
```

Class: [hckg:Buffer](#) [back to top](#)

- [smo:ManufacturingFacility](#)
 - **hckg:Buffer**

NOTE hckg:Buffer is a leaf node.

Description

Inherits from (3):

[smo:ManufacturingFacility](#) | [sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Domain of:

[hckg:facilityID](#) | [hckg:facilityType](#) | [hckg:locationID](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:Buffer a owl:Class ;
rdfs:subClassOf smo:ManufacturingFacility .
```

Class: [hckg:CrimpingStation](#) [back to top](#)

- [smo:ManufacturingFacility](#)
 - **hckg:CrimpingStation**

NOTE hckg:CrimpingStation is a leaf node.

Description

Inherits from (3):

[smo:ManufacturingFacility](#) | [sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Domain of:

[hckg:facilityID](#) | [hckg:facilityType](#) | [hckg:locationID](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:CrimpingStation a owl:Class ;
rdfs:subClassOf smo:ManufacturingFacility .
```

Class: [hckg:DAS](#) [back to top](#)

- owl:Thing
 - **hckg:DAS**

NOTE hckg:DAS is a leaf node.

Description

Inherits from:

owl:Thing

Property Domain of:

[hckg:DASMessage](#) | [hckg:DASName](#) | [hckg:DASdeviceId](#) | [hckg:equippedTo](#)

Property Range of:

[hckg:alarmToDAS](#) | [hckg:dataToDAS](#)

Implementation:

@prefix hckg: <<https://www.abonyilab.com/wh-ontology#>> .

@prefix owl: <<http://www.w3.org/2002/07/owl#>> .

hckg:DAS a owl:Class .

Class: [hckg:EnergySupply](#) [back to top](#)

- owl:Thing
 - **hckg:EnergySupply**

NOTE hckg:EnergySupply is a leaf node.

Description

Inherits from:

owl:Thing

Property Domain of:

[hckg:energySupplyCost](#) | [hckg:energySupplyID](#) | [hckg:energySupplyName](#)

Property Range of:

[hckg:requiresSupply](#)

Implementation:

@prefix hckg: <<https://www.abonyilab.com/wh-ontology#>> .

@prefix owl: <<http://www.w3.org/2002/07/owl#>> .

hckg:EnergySupply a owl:Class .

Class: [hckg:HAR_Analysis](#) [back to top](#)

- owl:Thing
 - **hckg:HAR_Analysis**

NOTE hckg:HAR_Analysis is a leaf node.

Description

Inherits from:

owl:Thing

Property Domain of:

[hckg:HARResult](#)

Property Range of:[hckg:activityRecognition](#)

Implementation:

@prefix hckg: <<https://www.abonyilab.com/wh-ontology#>> .@prefix owl: <<http://www.w3.org/2002/07/owl#>> .

hckg:HAR_Analysis a owl:Class .

Class: [hckg:KPIStore](#) [back to top](#)

-
- owl:Thing
 - **hckg:KPIStore**

NOTE hckg:KPIStore is a leaf node.

Description**Inherits from:**

owl:Thing

Property Domain of:[hckg:KPICategory](#) | [hckg:KPIOperatorType](#) | [hckg:KPIType](#) | [hckg:KPIValue](#) | [hckg:KPI_ID](#) | [hckg:relatedAssets](#) | [hckg:dataToDAS](#)**Property Range of:**[hckg:HARResult](#) | [hckg:dataToKPIStore](#) | [hckg:sourceLogData](#)

Implementation:

@prefix hckg: <<https://www.abonyilab.com/wh-ontology#>> .@prefix owl: <<http://www.w3.org/2002/07/owl#>> .

hckg:KPIStore a owl:Class .

Class: [hckg:LogDataStore](#) [back to top](#)

-
- owl:Thing
 - **hckg:LogDataStore**

NOTE hckg:LogDataStore is a leaf node.

Description**Inherits from:**

owl:Thing

Property Domain of:[hckg:logDataValue](#) | [hckg:logTime](#) | [hckg:sourceID](#) | [hckg:sourceLogData](#)**Property Range of:**[hckg:dataToLog](#)

Implementation:

@prefix hckg: <<https://www.abonyilab.com/wh-ontology#>> .@prefix owl: <<http://www.w3.org/2002/07/owl#>> .

hckg:LogDataStore a owl:Class .

Class: [hckg:Result](#) [back to top](#)

- [sosa1:FeatureOfInterest](#)
 - **hckg:Result**
- [sosa1:ObservableProperty](#)
 - **hckg:Result**

NOTE hckg:Result is a leaf node.

Description**Inherits from (2):**

[sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Domain of:

[hckg:resultID](#) | [hckg:resultTypeID](#) | [hckg:resultTypeName](#) | [hckg:performedBy](#)

Property Range of:

[hckg:activityHasPrecedence](#) | [hckg:activityHasResult](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
hckg:Result a owl:Class ;
rdfs:subClassOf sosa1:FeatureOfInterest,
sosa1:ObservableProperty .
```

Class: [hckg:Storage](#) [back to top](#)

- [smo:ManufacturingFacility](#)
 - **hckg:Storage**

NOTE hckg:Storage is a leaf node.

Description**Inherits from (3):**

[smo:ManufacturingFacility](#) | [sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Domain of:

[hckg:facilityID](#) | [hckg:facilityType](#) | [hckg:locationID](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:Storage a owl:Class ;
rdfs:subClassOf smo:ManufacturingFacility .
```

Class: [smo:Capability](#) [back to top](#)

- owl:Thing
 - **smo:Capability**

NOTE smo:Capability is a leaf node.

Description

Inherits from:

owl:Thing

Property Domain of:

[hckg:capabilityCost](#) | [hckg:capabilityDescription](#) | [hckg:capabilityID](#) | [hckg:capabilityName](#)

Property Range of:

[smo:hasCapability](#) | [hckg:activityRequiresCapability](#)

Implementation:

@prefix owl: <<http://www.w3.org/2002/07/owl#>> .

@prefix smo: <<http://www.semanticweb.org/manufacturingproductionline#>> .

smo:Capability a owl:Class .

Class: [smo:Component](#) [back to top](#)

- owl:Thing
 - **smo:Component**

NOTE smo:Component is a leaf node.

Description

Inherits from:

owl:Thing

Property Domain of:

[hckg:componentRequiresActivity](#)

Property Range of:

[hckg:hasComponent](#)

Implementation:

@prefix owl: <<http://www.w3.org/2002/07/owl#>> .

@prefix smo: <<http://www.semanticweb.org/manufacturingproductionline#>> .

smo:Component a owl:Class .

Class: [smo:Machine](#) [back to top](#)

- [smo:Resource](#)
 - **smo:Machine**

NOTE smo:Machine is a leaf node.

Description

Inherits from (3):

[smo:Resource](#) | [sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Domain of:

[hckg:locationID](#) | [hckg:machineCondition](#) | [hckg:machineCost](#) | [hckg:machineID](#) | [hckg:machineType](#) | [hckg:requiresSupply](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
smo:Machine a owl:Class ;
rdfs:subClassOf smo:Resource .
```

Class: [smo:ManufacturingFacility](#) [back to top](#)

- [sosa1:FeatureOfInterest](#)
 - **smo:ManufacturingFacility**
 - [hckg:AssemblyStation](#)
 - [hckg:Buffer](#)
 - [hckg:CrimpingStation](#)
 - [hckg:Storage](#)
- [sosa1:ObservableProperty](#)
 - **smo:ManufacturingFacility**
 - [hckg:AssemblyStation](#)
 - [hckg:Buffer](#)
 - [hckg:CrimpingStation](#)
 - [hckg:Storage](#)

Description**Inherits from (2):**

[sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Domain of:

[hckg:facilityID](#) | [hckg:facilityType](#) | [hckg:locationID](#)

Property Range of:

[hckg:activityRequiresManufacturingFacility](#) | [hckg:operatorAllocation](#) | [hckg:resourceAllocation](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
smo:ManufacturingFacility a owl:Class ;
rdfs:subClassOf sosa1:FeatureOfInterest,
sosa1:ObservableProperty .
```

Class: [smo:Operator](#) [back to top](#)

- [sosa1:FeatureOfInterest](#)
 - **smo:Operator**
- [sosa1:ObservableProperty](#)
 - **smo:Operator**

NOTE smo:Operator is a leaf node.

Description

Inherits from (2):

[sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Domain of:

[hckg:competenceLevel](#) | [hckg:locationID](#) | [hckg:operatorCost](#) | [hckg:personnelID](#) | [hckg:qualification](#) | [smo:hasCapability](#) | [hckg:operatorAllocation](#)

Property Range of:

[hckg:activityRequiresOperator](#) | [hckg:equippedTo](#) | [hckg:performedBy](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
smo:Operator a owl:Class ;
rdfs:subClassOf sosa1:FeatureOfInterest,
sosa1:ObservableProperty .
```

Class: [smo:Part](#) [back to top](#)

- owl:Thing
 - **smo:Part**

NOTE smo:Part is a leaf node.

Description

Inherits from:

owl:Thing

Property Domain of:

[hckg:hasComponent](#)

Property Range of:

[hckg:hasPart](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
smo:Part a owl:Class .
```

Class: [smo:Product](#) [back to top](#)

- owl:Thing
 - **smo:Product**

NOTE smo:Product is a leaf node.

Description

Inherits from:

owl:Thing

Property Domain of:[hckg:hasPart](#)

Implementation:

@prefix owl: <<http://www.w3.org/2002/07/owl#>> .@prefix smo: <<http://www.semanticweb.org/manufacturingproductionline#>> .

smo:Product a owl:Class .

Class: [smo:Resource](#) [back to top](#)

-
- [sosa1:FeatureOfInterest](#)
 - **smo:Resource**
 - [var:Robot](#)
 - [smo:Machine](#)
 - [smo:Tool](#)
 - [sosa1:ObservableProperty](#)
 - **smo:Resource**
 - [var:Robot](#)
 - [smo:Machine](#)
 - [smo:Tool](#)

Description**Inherits from (2):**[sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)**Property Domain of:**[hckg:resourceAllocation](#)**Property Range of:**[hckg:activityRequiresResource](#) | [hckg:performedBy](#)

Implementation:

@prefix owl: <<http://www.w3.org/2002/07/owl#>> .@prefix rdfs: <<http://www.w3.org/2000/01/rdf-schema#>> .@prefix smo: <<http://www.semanticweb.org/manufacturingproductionline#>> .@prefix sosa1: <<http://www.w3.org/ns/sosa#>> .

smo:Resource a owl:Class ;

rdfs:subClassOf sosa1:FeatureOfInterest,

sosa1:ObservableProperty .

Class: [smo:Tool](#) [back to top](#)

-
- [smo:Resource](#)
 - **smo:Tool**

NOTE smo:Tool is a leaf node.

Description**Inherits from (3):**[smo:Resource](#) | [sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)**Property Domain of:**[hckg:equipmentCondition](#) | [hckg:equipmentCost](#) | [hckg:equipmentID](#) | [hckg:equipmentName](#) |

[hckg:equipmentType](#) | [hckg:locationID](#) | [hckg:requiresSupply](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
smo:Tool a owl:Class ;
rdfs:subClassOf smo:Resource .
```

Class: [sosa1:FeatureOfInterest](#) [back to top](#)

- owl:Thing
 - **sosa1:FeatureOfInterest**
 - [smo:ManufacturingFacility](#)
 - [smo:Operator](#)
 - [smo:Resource](#)
 - [hckg:Result](#)

Description

Inherits from:

owl:Thing

Property Range of:

[sosa1:hasFeatureOfInterest](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
sosa1:FeatureOfInterest a owl:Class .
```

Class: [sosa1:ObservableProperty](#) [back to top](#)

- owl:Thing
 - **sosa1:ObservableProperty**
 - [smo:ManufacturingFacility](#)
 - [smo:Operator](#)
 - [smo:Resource](#)
 - [hckg:Result](#)

Description

Inherits from:

owl:Thing

Property Range of:

[sosa1:observes](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
sosa1:ObservableProperty a owl:Class .
```

Class: [sosa1:Observation](#) [back to top](#)

- owl:Thing
 - **sosa1:Observation**

NOTE sosa1:Observation is a leaf node.

Description**Inherits from:**

owl:Thing

Property Domain of:

[hckg:alarmLimit](#) | [hckg:observationID](#) | [hckg:observationName](#) | [hckg:observationValue](#) | [hckg:warningLimit](#) | [sosa1:hasFeatureOfInterest](#) | [hckg:activityRecognition](#) | [hckg:alarmToDAS](#) | [hckg:dataToKPIStore](#) | [hckg:dataToLog](#)

Property Range of:

[sosa1:madeObservation](#)

Implementation:

@prefix owl: <<http://www.w3.org/2002/07/owl#>> .

@prefix sosa1: <<http://www.w3.org/ns/sosa#>> .

sosa1:Observation a owl:Class .

Class: [sosa1:Sensor](#) [back to top](#)

- owl:Thing
 - **sosa1:Sensor**

NOTE sosa1:Sensor is a leaf node.

Description**Inherits from:**

owl:Thing

Property Domain of:

[hckg:sensorCost](#) | [hckg:sensorID](#) | [hckg:sensorReadingValue](#) | [hckg:sensorType](#) | [sosa1:madeObservation](#) | [sosa1:observes](#)

Implementation:

@prefix owl: <<http://www.w3.org/2002/07/owl#>> .

@prefix sosa1: <<http://www.w3.org/ns/sosa#>> .

sosa1:Sensor a owl:Class .

Class: [var:IndustrialRobot](#) [back to top](#)

- [var:Robot](#)
 - **var:IndustrialRobot**

NOTE var:IndustrialRobot is a leaf node.

Description

Inherits from (4):

[var:Robot](#) | [smo:Resource](#) | [sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Domain of:

[dc:isPartOf](#) | [hckg:locationID](#) | [hckg:robotCondition](#) | [hckg:robotCost](#) | [hckg:robotID](#) | [hckg:robotType](#) | [smo:hasCapability](#) | [hckg:requiresSupply](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .
```

```
var:IndustrialRobot a owl:Class ;
rdfs:subClassOf var:Robot .
```

Class: [var:MobileRobot](#) [back to top](#)

- [var:Robot](#)
 - **var:MobileRobot**

NOTE var:MobileRobot is a leaf node.

Description

Inherits from (4):

[var:Robot](#) | [smo:Resource](#) | [sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Domain of:

[dc:isPartOf](#) | [hckg:locationID](#) | [hckg:robotCondition](#) | [hckg:robotCost](#) | [hckg:robotID](#) | [hckg:robotType](#) | [hckg:requiresSupply](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .
```

```
var:MobileRobot a owl:Class ;
rdfs:subClassOf var:Robot .
```

Class: [var:Robot](#) [back to top](#)

- [smo:Resource](#)
 - **var:Robot**
 - [var:IndustrialRobot](#)
 - [var:MobileRobot](#)

Description

Inherits from (3):

[smo:Resource](#) | [sosa1:FeatureOfInterest](#) | [sosa1:ObservableProperty](#)

Property Range of:

[dc:isPartOf](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .

var:Robot a owl:Class ;
rdfs:subClassOf smo:Resource .
```

Object Properties

Object Property: [smo:hasCapability](#) [back to top](#)

NOTE smo:hasCapability is a leaf node.

Description

Class Domain for:

[var:IndustrialRobot](#) | [smo:Operator](#)

Class Range for:

[smo:Capability](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .

smo:hasCapability a owl:ObjectProperty ;
rdfs:domain var:IndustrialRobot,
smo:Operator ;
rdfs:range smo:Capability .
```

Object Property: [sosa1:hasFeatureOfInterest](#) [back to top](#)

NOTE sosa1:hasFeatureOfInterest is a leaf node.

Description

Class Domain for:

[sosa1:Observation](#)

Class Range for:

[sosa1:FeatureOfInterest](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .

sosa1:hasFeatureOfInterest a owl:ObjectProperty ;
rdfs:domain sosa1:Observation ;
rdfs:range sosa1:FeatureOfInterest .
```

Object Property: [sosa1:madeObservation](#) [back to top](#)

NOTE `sosa1:madeObservation` is a leaf node.

Description

Class Domain for:

[sosa1:Sensor](#)

Class Range for:

[sosa1:Observation](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
sosa1:madeObservation a owl:ObjectProperty ;  
rdfs:domain sosa1:Sensor ;  
rdfs:range sosa1:Observation .
```

Object Property: [sosa1:observes](#) [back to top](#)

NOTE `sosa1:observes` is a leaf node.

Description

Class Domain for:

[sosa1:Sensor](#)

Class Range for:

[sosa1:ObservableProperty](#)

Implementation:

```
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
sosa1:observes a owl:ObjectProperty ;  
rdfs:domain sosa1:Sensor ;  
rdfs:range sosa1:ObservableProperty .
```

Object Property: [hckg:HARResult](#) [back to top](#)

NOTE `hckg:HARResult` is a leaf node.

Description

Class Domain for:

[hckg:HAR_Analysis](#)

Class Range for:

[hckg:KPIStore](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
```

```
hckg:HARResult a owl:ObjectProperty ;  
rdfs:domain hckg:HAR_Analysis ;  
rdfs:range hckg:KPIStore .
```

Object Property: [hckg:activityHasPrecedence](#) [back to top](#)

NOTE hckg:activityHasPrecedence is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[hckg:Result](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
```

```
hckg:activityHasPrecedence a owl:ObjectProperty ;  
rdfs:domain hckg:Activity ;  
rdfs:range hckg:Result .
```

Object Property: [hckg:activityHasResult](#) [back to top](#)

NOTE hckg:activityHasResult is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[hckg:Result](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
```

```
hckg:activityHasResult a owl:ObjectProperty ;  
rdfs:domain hckg:Activity ;  
rdfs:range hckg:Result .
```

Object Property: [hckg:activityRecognition](#) [back to top](#)

NOTE hckg:activityRecognition is a leaf node.

Description

Class Domain for:

[sosa:Observation](#)

Class Range for:

[hckg:HAR_Analysis](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .

hckg:activityRecognition a owl:ObjectProperty ;
rdfs:domain sosa1:Observation ;
rdfs:range hckg:HAR_Analysis .
```

Object Property: [hckg:activityRequiresCapability](#) [back to top](#)

NOTE hckg:activityRequiresCapability is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[smo:Capability](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .

hckg:activityRequiresCapability a owl:ObjectProperty ;
rdfs:domain hckg:Activity ;
rdfs:range smo:Capability .
```

Object Property: [hckg:activityRequiresManufacturingFacility](#) [back to top](#)

NOTE hckg:activityRequiresManufacturingFacility is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[smo:ManufacturingFacility](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .

hckg:activityRequiresManufacturingFacility a owl:ObjectProperty ;
rdfs:domain hckg:Activity ;
rdfs:range smo:ManufacturingFacility .
```

Object Property: [hckg:activityRequiresOperator](#) [back to top](#)

NOTE hckg:activityRequiresOperator is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[smo:Operator](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:activityRequiresOperator a owl:ObjectProperty ;
rdfs:domain hckg:Activity ;
rdfs:range smo:Operator .
```

Object Property: [hckg:activityRequiresResource](#) [back to top](#)

NOTE hckg:activityRequiresResource is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[smo:Resource](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:activityRequiresResource a owl:ObjectProperty ;
rdfs:domain hckg:Activity ;
rdfs:range smo:Resource .
```

Object Property: [hckg:alarmToDAS](#) [back to top](#)

NOTE hckg:alarmToDAS is a leaf node.

Description

Class Domain for:

[sosa1:Observation](#)

Class Range for:

[hckg:DAS](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
hckg:alarmToDAS a owl:ObjectProperty ;  
rdfs:domain sosa1:Observation ;  
rdfs:range hckg:DAS .
```

Object Property: [hckg:componentRequiresActivity](#) [back to top](#)

NOTE hckg:componentRequiresActivity is a leaf node.

Description

Class Domain for:

[smo:Component](#)

Class Range for:

[hckg:Activity](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:componentRequiresActivity a owl:ObjectProperty ;  
rdfs:domain smo:Component ;  
rdfs:range hckg:Activity .
```

Object Property: [hckg:dataToDAS](#) [back to top](#)

NOTE hckg:dataToDAS is a leaf node.

Description

Class Domain for:

[hckg:KPIStore](#)

Class Range for:

[hckg:DAS](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
```

```
hckg:dataToDAS a owl:ObjectProperty ;  
rdfs:domain hckg:KPIStore ;  
rdfs:range hckg:DAS .
```

Object Property: [hckg:dataToKPIStore](#) [back to top](#)

NOTE hckg:dataToKPIStore is a leaf node.

Description

Class Domain for:

[sosa1:Observation](#)

Class Range for:[hckg:KPIStore](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
hckg:dataToKPIStore a owl:ObjectProperty ;
rdfs:domain sosa1:Observation ;
rdfs:range hckg:KPIStore .
```

Object Property: [hckg:dataToLog](#) [back to top](#)

NOTE hckg:dataToLog is a leaf node.

Description**Class Domain for:**[sosa1:Observation](#)**Class Range for:**[hckg:LogDataStore](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
```

```
hckg:dataToLog a owl:ObjectProperty ;
rdfs:domain sosa1:Observation ;
rdfs:range hckg:LogDataStore .
```

Object Property: [hckg:equippedTo](#) [back to top](#)

NOTE hckg:equippedTo is a leaf node.

Description**Class Domain for:**[hckg:DAS](#)**Class Range for:**[smo:Operator](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:equippedTo a owl:ObjectProperty ;
rdfs:domain hckg:DAS ;
rdfs:range smo:Operator .
```

Object Property: [hckg:hasComponent](#) [back to top](#)

NOTE hckg:hasComponent is a leaf node.

Description

Class Domain for:

[smo:Part](#)

Class Range for:

[smo:Component](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:hasComponent a owl:ObjectProperty ;
rdfs:domain smo:Part ;
rdfs:range smo:Component .
```

Object Property: [hckg:hasPart](#) [back to top](#)

NOTE hckg:hasPart is a leaf node.

Description

Class Domain for:

[smo:Product](#)

Class Range for:

[smo:Part](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:hasPart a owl:ObjectProperty ;
rdfs:domain smo:Product ;
rdfs:range smo:Part .
```

Object Property: [hckg:isA](#) [back to top](#)

NOTE hckg:isA is a leaf node.

Description

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
```

```
hckg:isA a owl:ObjectProperty .
```

Object Property: [hckg:operatorAllocation](#) [back to top](#)

NOTE hckg:operatorAllocation is a leaf node.

Description

Class Domain for:

[smo:Operator](#)

Class Range for:

[smo:ManufacturingFacility](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:operatorAllocation a owl:ObjectProperty ;
rdfs:domain smo:Operator ;
rdfs:range smo:ManufacturingFacility .
```

Object Property: [hckg:performedBy](#) [back to top](#)

NOTE hckg:performedBy is a leaf node.

Description

Class Domain for:

[hckg:Result](#)

Class Range for:

[smo:Operator](#) | [smo:Resource](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:performedBy a owl:ObjectProperty ;
rdfs:domain hckg:Result ;
rdfs:range smo:Operator,
smo:Resource .
```

Object Property: [hckg:requiresSupply](#) [back to top](#)

NOTE hckg:requiresSupply is a leaf node.

Description

Class Domain for:

[var:MobileRobot](#) | [smo:Tool](#) | [smo:Machine](#) | [var:IndustrialRobot](#)

Class Range for:

[hckg:EnergySupply](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
```

```
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .
```

```
hckg:requiresSupply a owl:ObjectProperty ;
rdfs:domain var:IndustrialRobot,
var:MobileRobot,
smo:Machine,
smo:Tool ;
rdfs:range hckg:EnergySupply .
```

Object Property: [hckg:resourceAllocation](#) [back to top](#)

NOTE hckg:resourceAllocation is a leaf node.

Description

Class Domain for:

[smo:Resource](#)

Class Range for:

[smo:ManufacturingFacility](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
```

```
hckg:resourceAllocation a owl:ObjectProperty ;
rdfs:domain smo:Resource ;
rdfs:range smo:ManufacturingFacility .
```

Object Property: [hckg:sourceLogData](#) [back to top](#)

NOTE hckg:sourceLogData is a leaf node.

Description

Class Domain for:

[hckg:LogDataStore](#)

Class Range for:

[hckg:KPIStore](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
```

```
hckg:sourceLogData a owl:ObjectProperty ;
rdfs:domain hckg:LogDataStore ;
rdfs:range hckg:KPIStore .
```

Datatype Properties

Datatype Property: [hckg:DASMessage](#) [back to top](#)

NOTE hckg:DASMessage is a leaf node.

Description

Class Domain for:

[hckg:DAS](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:DASMessage a owl:DatatypeProperty ;
rdfs:domain hckg:DAS ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:DASName](#) [back to top](#)

NOTE hckg:DASName is a leaf node.

Description

Class Domain for:

[hckg:DAS](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:DASName a owl:DatatypeProperty ;
rdfs:domain hckg:DAS ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:DASdeviceID](#) [back to top](#)

NOTE hckg:DASdeviceID is a leaf node.

Description

Class Domain for:

[hckg:DAS](#)

Class Range for:

[xsd:string](#)

Implementation:


```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:DASdeviceID a owl:DatatypeProperty ;
rdfs:domain hckg:DAS ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:KPICategory](#) [back to top](#)

NOTE hckg:KPICategory is a leaf node.

Description

Class Domain for:

[hckg:KPIStore](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:KPICategory a owl:DatatypeProperty ;
rdfs:domain hckg:KPIStore ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:KPIOperatorType](#) [back to top](#)

NOTE hckg:KPIOperatorType is a leaf node.

Description

Class Domain for:

[hckg:KPIStore](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:KPIOperatorType a owl:DatatypeProperty ;
rdfs:domain hckg:KPIStore ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:KPIType](#) [back to top](#)

NOTE hckg:KPIType is a leaf node.

Description

Class Domain for:[hckg:KPIStore](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:KPIType a owl:DatatypeProperty ;
rdfs:domain hckg:KPIStore ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:KPIValue](#) [back to top](#)

NOTE hckg:KPIValue is a leaf node.

Description**Class Domain for:**[hckg:KPIStore](#)**Class Range for:**[xsd:double](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:KPIValue a owl:DatatypeProperty ;
rdfs:domain hckg:KPIStore ;
rdfs:range xsd:double .
```

Datatype Property: [hckg:KPI_ID](#) [back to top](#)

NOTE hckg:KPI_ID is a leaf node.

Description**Class Domain for:**[hckg:KPIStore](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:KPI_ID a owl:DatatypeProperty ;
rdfs:domain hckg:KPIStore ;
```

`rdfs:range xsd:string .`

Datatype Property: [hckg:activityID](#) [back to top](#)

NOTE hckg:activityID is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:activityID a owl:DatatypeProperty ;  
rdfs:domain hckg:Activity ;  
rdfs:range xsd:string .
```

Datatype Property: [hckg:activityTypeID](#) [back to top](#)

NOTE hckg:activityTypeID is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:activityTypeID a owl:DatatypeProperty ;  
rdfs:domain hckg:Activity ;  
rdfs:range xsd:string .
```

Datatype Property: [hckg:activityTypeName](#) [back to top](#)

NOTE hckg:activityTypeName is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

hckg:activityTypeName a owl:DatatypeProperty ;
rdfs:domain hckg:Activity ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:activityTypeRemark](#) [back to top](#)

NOTE hckg:activityTypeRemark is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

hckg:activityTypeRemark a owl:DatatypeProperty ;
rdfs:domain hckg:Activity ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:activityTypeUnit](#) [back to top](#)

NOTE hckg:activityTypeUnit is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

hckg:activityTypeUnit a owl:DatatypeProperty ;
rdfs:domain hckg:Activity ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:additionalTime](#) [back to top](#)

NOTE hckg:additionalTime is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[xsd:double](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:additionalTime a owl:DatatypeProperty ;
rdfs:domain hckg:Activity ;
rdfs:range xsd:double .
```

Datatype Property: [hckg:alarmLimit](#) [back to top](#)

NOTE hckg:alarmLimit is a leaf node.

Description

Class Domain for:

[sosa1:Observation](#)

Class Range for:

[xsd:double](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:alarmLimit a owl:DatatypeProperty ;
rdfs:domain sosa1:Observation ;
rdfs:range xsd:double .
```

Datatype Property: [hckg:averageActivityTime](#) [back to top](#)

NOTE hckg:averageActivityTime is a leaf node.

Description

Class Domain for:

[hckg:Activity](#)

Class Range for:

[xsd:double](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:averageActivityTime a owl:DatatypeProperty ;  
rdfs:domain hckg:Activity ;  
rdfs:range xsd:double .
```

Datatype Property: [hckg:capabilityCost](#) [back to top](#)

NOTE hckg:capabilityCost is a leaf node.

Description

Class Domain for:

[smo:Capability](#)

Class Range for:

[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:capabilityCost a owl:DatatypeProperty ;  
rdfs:domain smo:Capability ;  
rdfs:range xsd:int .
```

Datatype Property: [hckg:capabilityDescription](#) [back to top](#)

NOTE hckg:capabilityDescription is a leaf node.

Description

Class Domain for:

[smo:Capability](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:capabilityDescription a owl:DatatypeProperty ;  
rdfs:domain smo:Capability ;  
rdfs:range xsd:string .
```

Datatype Property: [hckg:capabilityID](#) [back to top](#)

NOTE hckg:capabilityID is a leaf node.

Description

Class Domain for:[smo:Capability](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:capabilityID a owl:DatatypeProperty ;
rdfs:domain smo:Capability ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:capabilityName](#) [back to top](#)

NOTE hckg:capabilityName is a leaf node.

Description**Class Domain for:**[smo:Capability](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:capabilityName a owl:DatatypeProperty ;
rdfs:domain smo:Capability ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:competenceLevel](#) [back to top](#)

NOTE hckg:competenceLevel is a leaf node.

Description**Class Domain for:**[smo:Operator](#)**Class Range for:**[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:competenceLevel a owl:DatatypeProperty ;  
rdfs:domain smo:Operator ;  
rdfs:range xsd:int .
```

Datatype Property: [hckg:energySupplyCost](#) [back to top](#)

NOTE hckg:energySupplyCost is a leaf node.

Description

Class Domain for:

[hckg:EnergySupply](#)

Class Range for:

[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:energySupplyCost a owl:DatatypeProperty ;  
rdfs:domain hckg:EnergySupply ;  
rdfs:range xsd:int .
```

Datatype Property: [hckg:energySupplyID](#) [back to top](#)

NOTE hckg:energySupplyID is a leaf node.

Description

Class Domain for:

[hckg:EnergySupply](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:energySupplyID a owl:DatatypeProperty ;  
rdfs:domain hckg:EnergySupply ;  
rdfs:range xsd:string .
```

Datatype Property: [hckg:energySupplyName](#) [back to top](#)

NOTE hckg:energySupplyName is a leaf node.

Description

Class Domain for:

[hckg:EnergySupply](#)

Class Range for:[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:energySupplyName a owl:DatatypeProperty ;
rdfs:domain hckg:EnergySupply ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:equipmentCondition](#) [back to top](#)

NOTE hckg:equipmentCondition is a leaf node.

Description**Class Domain for:**[smo:Tool](#)**Class Range for:**[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:equipmentCondition a owl:DatatypeProperty ;
rdfs:domain smo:Tool ;
rdfs:range xsd:int .
```

Datatype Property: [hckg:equipmentCost](#) [back to top](#)

NOTE hckg:equipmentCost is a leaf node.

Description**Class Domain for:**[smo:Tool](#)**Class Range for:**[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:equipmentCost a owl:DatatypeProperty ;
rdfs:domain smo:Tool ;
rdfs:range xsd:int .
```

Datatype Property: [hckg:equipmentID](#) [back to top](#)

NOTE hckg:equipmentID is a leaf node.

Description

Class Domain for:

[smo:Tool](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:equipmentID a owl:DatatypeProperty ;  
rdfs:domain smo:Tool ;  
rdfs:range xsd:string .
```

Datatype Property: [hckg:equipmentName](#) [back to top](#)

NOTE hckg:equipmentName is a leaf node.

Description

Class Domain for:

[smo:Tool](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:equipmentName a owl:DatatypeProperty ;  
rdfs:domain smo:Tool ;  
rdfs:range xsd:string .
```

Datatype Property: [hckg:equipmentType](#) [back to top](#)

NOTE hckg:equipmentType is a leaf node.

Description

Class Domain for:

[smo:Tool](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

hckg:equipmentType a owl:DatatypeProperty ;
rdfs:domain smo:Tool ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:facilityID](#) [back to top](#)

NOTE hckg:facilityID is a leaf node.

Description

Class Domain for:

[smo:ManufacturingFacility](#) | [hckg:AssemblyStation](#) | [hckg:Buffer](#) | [hckg:Storage](#) | [hckg:CrimpingStation](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

hckg:facilityID a owl:DatatypeProperty ;
rdfs:domain smo:ManufacturingFacility,
hckg:AssemblyStation,
hckg:Buffer,
hckg:CrimpingStation,
hckg:Storage ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:facilityType](#) [back to top](#)

NOTE hckg:facilityType is a leaf node.

Description

Class Domain for:

[hckg:Storage](#) | [hckg:CrimpingStation](#) | [smo:ManufacturingFacility](#) | [hckg:AssemblyStation](#) | [hckg:Buffer](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

hckg:facilityType a owl:DatatypeProperty ;
rdfs:domain smo:ManufacturingFacility,
```

```
hckg:AssemblyStation,
hckg:Buffer,
hckg:CrimpingStation,
hckg:Storage ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:locationID](#) [back to top](#)

NOTE hckg:locationID is a leaf node.

Description

Class Domain for:

[hckg:Buffer](#) | [smo:Tool](#) | [var:MobileRobot](#) | [smo:Operator](#) | [var:IndustrialRobot](#) | [hckg:CrimpingStation](#) | [smo:Machine](#) | [smo:ManufacturingFacility](#) | [hckg:AssemblyStation](#) | [hckg:Storage](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:locationID a owl:DatatypeProperty ;
rdfs:domain var:IndustrialRobot,
var:MobileRobot,
smo:Machine,
smo:ManufacturingFacility,
smo:Operator,
smo:Tool,
hckg:AssemblyStation,
hckg:Buffer,
hckg:CrimpingStation,
hckg:Storage ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:logDataValue](#) [back to top](#)

NOTE hckg:logDataValue is a leaf node.

Description

Class Domain for:

[hckg:LogDataStore](#)

Class Range for:

[xsd:double](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:logDataValue a owl:DatatypeProperty ;
rdfs:domain hckg:LogDataStore ;
```

`rdfs:range xsd:double .`

Datatype Property: [hckg:logTime](#) [back to top](#)

NOTE hckg:logTime is a leaf node.

Description

Class Domain for:

[hckg:LogDataStore](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:logTime a owl:DatatypeProperty ;
rdfs:domain hckg:LogDataStore ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:machineCondition](#) [back to top](#)

NOTE hckg:machineCondition is a leaf node.

Description

Class Domain for:

[smo:Machine](#)

Class Range for:

[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:machineCondition a owl:DatatypeProperty ;
rdfs:domain smo:Machine ;
rdfs:range xsd:int .
```

Datatype Property: [hckg:machineCost](#) [back to top](#)

NOTE hckg:machineCost is a leaf node.

Description

Class Domain for:

[smo:Machine](#)

Class Range for:[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:machineCost a owl:DatatypeProperty ;
rdfs:domain smo:Machine ;
rdfs:range xsd:int .
```

Datatype Property: [hckg:machineID](#) [back to top](#)

NOTE hckg:machineID is a leaf node.

Description**Class Domain for:**[smo:Machine](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:machineID a owl:DatatypeProperty ;
rdfs:domain smo:Machine ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:machineType](#) [back to top](#)

NOTE hckg:machineType is a leaf node.

Description**Class Domain for:**[smo:Machine](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:machineType a owl:DatatypeProperty ;
rdfs:domain smo:Machine ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:observationID](#) [back to top](#)

NOTE hckg:observationID is a leaf node.

Description

Class Domain for:

[sosa1:Observation](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix sosa1: <http://www.w3.org/ns/sosa#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:observationID a owl:DatatypeProperty ;  
rdfs:domain sosa1:Observation ;  
rdfs:range xsd:string .
```

Datatype Property: [hckg:observationName](#) [back to top](#)

NOTE hckg:observationName is a leaf node.

Description

Class Domain for:

[sosa1:Observation](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .  
@prefix owl: <http://www.w3.org/2002/07/owl#> .  
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .  
@prefix sosa1: <http://www.w3.org/ns/sosa#> .  
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:observationName a owl:DatatypeProperty ;  
rdfs:domain sosa1:Observation ;  
rdfs:range xsd:string .
```

Datatype Property: [hckg:observationValue](#) [back to top](#)

NOTE hckg:observationValue is a leaf node.

Description

Class Domain for:

[sosa1:Observation](#)

Class Range for:[xsd:string](#) | [xsd:double](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:observationValue a owl:DatatypeProperty ;
rdfs:domain sosa1:Observation ;
rdfs:range xsd:double,
xsd:string .
```

Datatype Property: [hckg:operatorCost](#) [back to top](#)

NOTE hckg:operatorCost is a leaf node.

Description**Class Domain for:**[smo:Operator](#)**Class Range for:**[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:operatorCost a owl:DatatypeProperty ;
rdfs:domain smo:Operator ;
rdfs:range xsd:int .
```

Datatype Property: [hckg:personnelID](#) [back to top](#)

NOTE hckg:personnelID is a leaf node.

Description**Class Domain for:**[smo:Operator](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:personnelID a owl:DatatypeProperty ;
rdfs:domain smo:Operator ;
```


`rdfs:range xsd:string .`

Datatype Property: [hckg:qualification](#) [back to top](#)

NOTE hckg:qualification is a leaf node.

Description

Class Domain for:

[smo:Operator](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix smo: <http://www.semanticweb.org/manufacturingproductionline#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:qualification a owl:DatatypeProperty ;
rdfs:domain smo:Operator ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:relatedAssets](#) [back to top](#)

NOTE hckg:relatedAssets is a leaf node.

Description

Class Domain for:

[hckg:KPIStore](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:relatedAssets a owl:DatatypeProperty ;
rdfs:domain hckg:KPIStore ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:resultID](#) [back to top](#)

NOTE hckg:resultID is a leaf node.

Description

Class Domain for:

[hckg:Result](#)

Class Range for:[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:resultID a owl:DatatypeProperty ;
rdfs:domain hckg:Result ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:resultTypeID](#) [back to top](#)

NOTE hckg:resultTypeID is a leaf node.

Description**Class Domain for:**[hckg:Result](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:resultTypeID a owl:DatatypeProperty ;
rdfs:domain hckg:Result ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:resultTypeName](#) [back to top](#)

NOTE hckg:resultTypeName is a leaf node.

Description**Class Domain for:**[hckg:Result](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:resultTypeName a owl:DatatypeProperty ;
rdfs:domain hckg:Result ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:robotCondition](#) [back to top](#)

NOTE hckg:robotCondition is a leaf node.

Description

Class Domain for:

[var:IndustrialRobot](#) | [var:MobileRobot](#)

Class Range for:

[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:robotCondition a owl:DatatypeProperty ;
rdfs:domain var:IndustrialRobot,
var:MobileRobot ;
rdfs:range xsd:int .
```

Datatype Property: [hckg:robotCost](#) [back to top](#)

NOTE hckg:robotCost is a leaf node.

Description

Class Domain for:

[var:IndustrialRobot](#) | [var:MobileRobot](#)

Class Range for:

[xsd:int](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:robotCost a owl:DatatypeProperty ;
rdfs:domain var:IndustrialRobot,
var:MobileRobot ;
rdfs:range xsd:int .
```

Datatype Property: [hckg:robotID](#) [back to top](#)

NOTE hckg:robotID is a leaf node.

Description

Class Domain for:

[var:MobileRobot](#) | [var:IndustrialRobot](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

hckg:robotID a owl:DatatypeProperty ;
rdfs:domain var:IndustrialRobot,
var:MobileRobot ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:robotType](#) [back to top](#)

NOTE hckg:robotType is a leaf node.

Description

Class Domain for:

[var:MobileRobot](#) | [var:IndustrialRobot](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

hckg:robotType a owl:DatatypeProperty ;
rdfs:domain var:IndustrialRobot,
var:MobileRobot ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:sensorCost](#) [back to top](#)

NOTE hckg:sensorCost is a leaf node.

Description

Class Domain for:

[sosa1:Sensor](#)

Class Range for:

[xsd:integer](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

hckg:sensorCost a owl:DatatypeProperty ;
rdfs:domain sosa1:Sensor ;
rdfs:range xsd:integer .
```

Datatype Property: [hckg:sensorID](#) [back to top](#)

NOTE hckg:sensorID is a leaf node.

Description

Class Domain for:

[sosa1:Sensor](#)

Class Range for:

[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:sensorID a owl:DatatypeProperty ;
rdfs:domain sosa1:Sensor ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:sensorReadingValue](#) [back to top](#)

NOTE hckg:sensorReadingValue is a leaf node.

Description

Class Domain for:

[sosa1:Sensor](#)

Class Range for:

[xsd:double](#) | [xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:sensorReadingValue a owl:DatatypeProperty ;
rdfs:domain sosa1:Sensor ;
rdfs:range xsd:double,
xsd:string .
```

Datatype Property: [hckg:sensorType](#) [back to top](#)

NOTE hckg:sensorType is a leaf node.

Description

Class Domain for:

[sosa1:Sensor](#)

Class Range for:[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:sensorType a owl:DatatypeProperty ;
rdfs:domain sosa1:Sensor ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:sourceID](#) [back to top](#)

NOTE hckg:sourceID is a leaf node.

Description**Class Domain for:**[hckg:LogDataStore](#)**Class Range for:**[xsd:string](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:sourceID a owl:DatatypeProperty ;
rdfs:domain hckg:LogDataStore ;
rdfs:range xsd:string .
```

Datatype Property: [hckg:warningLimit](#) [back to top](#)

NOTE hckg:warningLimit is a leaf node.

Description**Class Domain for:**[sosa1:Observation](#)**Class Range for:**[xsd:double](#)

Implementation:

```
@prefix hckg: <https://www.abonyilab.com/wh-ontology#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix sosa1: <http://www.w3.org/ns/sosa#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
hckg:warningLimit a owl:DatatypeProperty ;
rdfs:domain sosa1:Observation ;
rdfs:range xsd:double .
```

Annotation Properties

Annotation Property: [dc:isPartOf](#) [back to top](#)

NOTE `dc:isPartOf` is a leaf node.

Description

Class Domain for:

[var:IndustrialRobot](#) | [var:MobileRobot](#)

Class Range for:

[var:Robot](#)

Implementation:

```
@prefix dc: <http://purl.org/dc/elements/1.1/> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix var: <http://www.satisfactory-project.eu/satisfactory/var#> .
```

```
dc:isPartOf a owl:AnnotationProperty ;
rdfs:domain var:IndustrialRobot,
var:MobileRobot ;
rdfs:range var:Robot .
```

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