



Tekes Project

SmartResource

*Prototype Environment v.1.0:
Screen Shots of Demonstration*

Industrial Ontologies group

Agora Center, University of Jyväskylä

***February, 2005
Jyväskylä, Finland***



INDUSTRIAL ONTOLOGIES GROUP



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The diagram illustrates the Joseki system architecture and its interaction flow. It features three main components: a "Service" component, a "Device" component, and an "Expert" component. Each component is represented by a computer monitor icon, a person icon, and a "Joseki Java RSP Server" icon. The interaction flow is depicted as follows:

- 1 Generate State**: A circular arrow indicates the generation of state within the "Device" component.
- 2 Transform**: A circular arrow indicates the transformation of state within the "Device" component.
- 3 Store State**: A circular arrow indicates the storage of state within the "Device" component.
- 4 Diagnosis Request**: A dashed arrow points from the "Device" component to the "Expert" component, representing a request for diagnosis.
- 5 Store Request**: A circular arrow indicates the storage of a request within the "Expert" component.
- 6 Transform Request**: A circular arrow indicates the transformation of a request within the "Expert" component.

Below the diagram, a legend identifies the interaction types:

- 1 Device-to-Expert**
- 2 Expert-to-Device**
- 3 Device-to-Service (Learning)**
- 4 Device-to-Service**
- 5 Service-to-Device**

Please change parameters from default values if needed

Ontology is not initialized. Please start Joseki server and provide correct URL.

URL to the Application Server:

URL to ontology in Joseki server:

Email address of an expert:

URL of Java Naming Provider:

Done Internet

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4 Diagnosis Request

1 Generate State
2 Transform
3 Store State

5 Store Request
6 Transform Request

1 Device-to-Expert 2 Expert-to-Device 3 Device-to-Service (Learning) 4 Device-to-Service 5 Service-to-Device

Please change parameters from default values if needed

Ontology is initialized.

URL to the Application Server:

URL to ontology in Joseki server:

Email address of an expert:

URL of Java Naming Provider:

Done Internet

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The diagram illustrates a diagnostic process flow involving three main components: "Service", "Device", and "Expert". Each component is represented by a computer monitor icon, a person icon, and a "Joseki" server icon. The process is divided into two main sections by a horizontal dashed line.

Top Section:

- Left:** "Service" component.
- Middle:** "Device" component.
- Right:** "Expert" component.

Bottom Section (Process Steps):

- 1 Device-to-Expert
- 2 Expert-to-Device
- 3 Device-to-Service (Learning)
- 4 Diagnosis Request
- 5 Service-to-Device

Additional steps are shown below the dashed line:

- Under "Device":**
 - 1 Generate State
 - 2 Transform
 - 3 Store State
- Under "Expert":**
 - 5 Store Request
 - 6 Transform Request

Arrows indicate the flow of data and requests between these components and steps.

```

<?xml version="1.0" encoding="UTF-8" ?>
- <st:State xmlns:st="http://www.metso.com/Alarm" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.metso.com/Alarm
file:/C:/MYTEMP/Serg/SR/XML/work/StateMessage/StateMessage.xsd" Time="2005-02-09T18:18:43.208">
- <Measurement>
  <ParamType>Screw turning speed</ParamType>
  <Units>rpm</Units>
  <Value>21</Value>
  <Sensor sensorID="KS23-S">Rotation speed sensor</Sensor>
</Measurement>
- <Measurement>
  <ParamType>Open-close stroke</ParamType>
  <Units>mm</Units>
  <Value>129</Value>
  <Sensor sensorID="II12-D7">Gap sensor</Sensor>
</Measurement>
- <Measurement>
  <ParamType>Oil tank temperature</ParamType>
  <Units>celsius</Units>
  <Value>62</Value>
  <Sensor sensorID="KX2834-S">Temperature sensor</Sensor>
</Measurement>
- <Measurement>
  <ParamType>Thermo liquid level</ParamType>
  <Units>mm</Units>
  <Value>68</Value>
  <Sensor sensorID="LIQ-23M1">Level sensor</Sensor>
</Measurement>
- <Measurement>
  <ParamType>Working module preasure</ParamType>
  <Units>kg/cm2</Units>
  <Value>8.117965</Value>
  <Sensor sensorID="PIO1-1">Preasure sensor</Sensor>
</Measurement>

```

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1 Device-to-Expert 2 Expert-to-Device 3 Device-to-Service (Learning) 4 Diagnosis Request 5 Service-to-Device

1 Generate State 2 Transform 3 Store

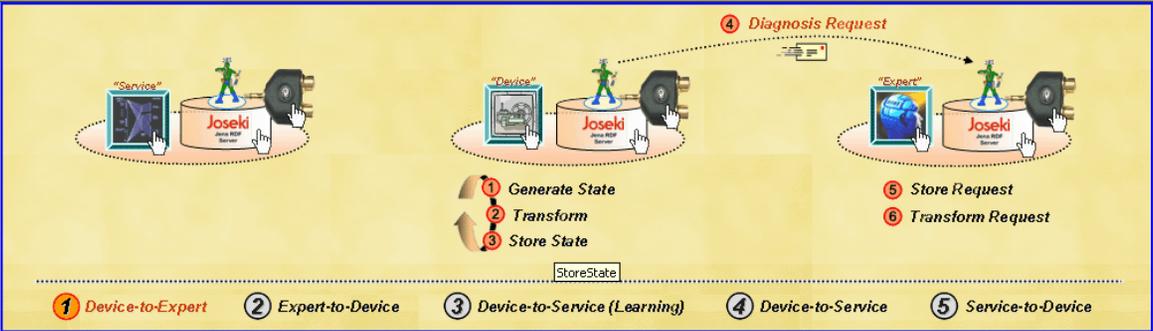
4 Diagnosis Request 5 Store Request 6 Transform Request

```

<?xml version="1.0" ?>
<!DOCTYPE rdf:RDF (View Source for full doctype...)>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:rscdfs="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#"
  xmlns:ontoMeasurement="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#"
  xmlns:ontoEnumerativeValue="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/enumerativeValueOntology#"
  xmlns:ontoTempMark="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/tempTempMarkOntology#"
  xmlns:ontoDevice="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/deviceOntology#"
  xmlns:ontoContainer="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/containerOntology#"
  xmlns:ontoDiagnosis="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#"
  xmlns:ontoCondition="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/conditionOntology#" xmlns:device="http://ohcejohka.ad.jyu.fi:2020/SmartResource#"
  xmlns:expert="http://chitradurga.ad.jyu.fi:2020/SmartResource#" xmlns:service="http://pilot.ad.jyu.fi:2020/SmartResource#">
- <rscdfs:SR_Statement rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#StateStatement235">
  <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
  <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/containerOntology#devicePhysicalState" />
  <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#StateContainer231" />
  <rscdfs:trueInContext rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#StateFilterContainer234" />
</rscdfs:SR_Statement>
- <rscdfs:SR_Container rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#StateContainer231">
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement206" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement210" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement214" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement218" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement222" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement226" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement230" />
</rscdfs:SR_Container>
- <rscdfs:SR_Statement rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement206">
  <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
  <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#KF330_param1" />
  <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#numValue203" />
  <rscdfs:trueInContext rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#container205temp" />
</rscdfs:SR_Statement>

```

Done Internet



Device state was successfully stored

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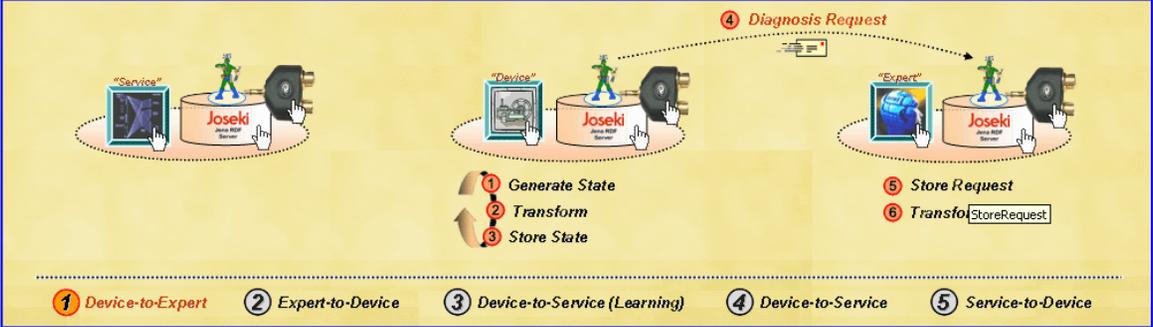
1 Device-to-Expert 2 Expert-to-Device 3 Device-to-Service (Learning) 4 Diagnosis Request 5 Store Request 6 Transform Request

```

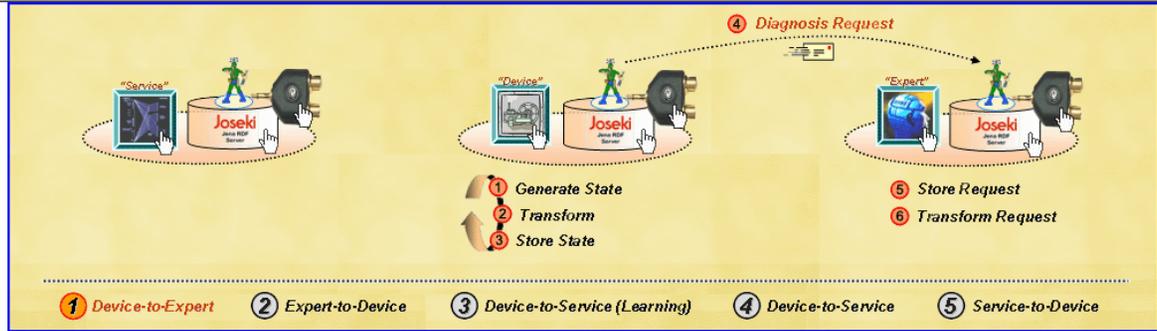
<rdf:RDF
  xmlns:device="http://ohcejohka.ad.jyu.fi:2020/SmartResource#"
  xmlns:ontoTempMark="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/tempTempMarkOntology#"
  xmlns:expert="http://chitradurga.ad.jyu.fi:2020/SmartResource#"
  xmlns:service="http://pilot.ad.jyu.fi:2020/SmartResource#"
  xmlns:ontoMeasurement="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:ontoCondition="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/conditionOntology#"
  xmlns:ontoContainer="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/containerOntology#"
  xmlns:ontoEnumerativeValue="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/enumerativeValueOntology#"
  xmlns:rscdfs="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:ontoDiagnosis="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#"
  xmlns:ontoDevice="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/deviceOntology#" >
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement80">
    <rscdfs:trueInContext rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#container79temp"/>
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#SR_Statement"/>
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#numValue77"/>
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#KF330_param5"/>
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement160">
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#KF330_param2"/>
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24"/>
    <rscdfs:trueInContext rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#container159temp"/>
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#SR_Statement"/>
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#numValue157"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#contextStatement108sensorID">
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/partOfOntology#devicePartOfWorld"/>
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#SR_Statement"/>
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#WorldEnvironment"/>
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#SensorII12-D7instance"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#contextStatement158sensorID">
  </rdf:Description>

```

Done Internet



Request for diagnostics was successfully stored into Expert and Device History Storages.



ANNOTATION

Diagnostics for 123456XZ24

The manufacture of machine is KUN FONG Machinery Co., LTD

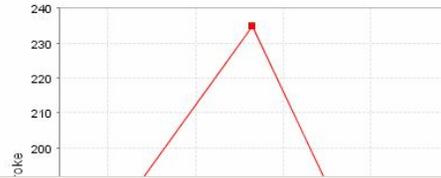
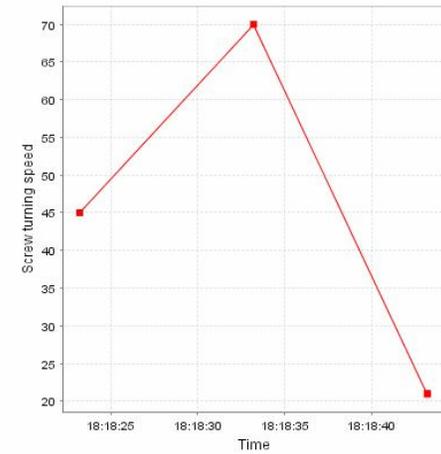
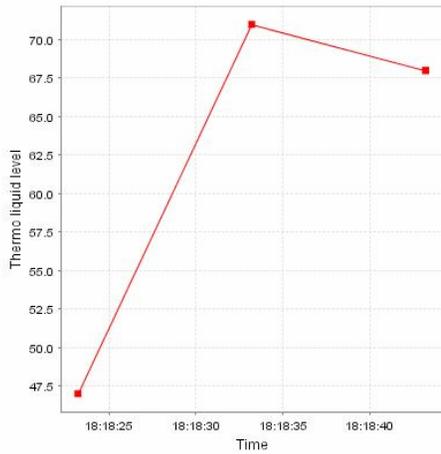
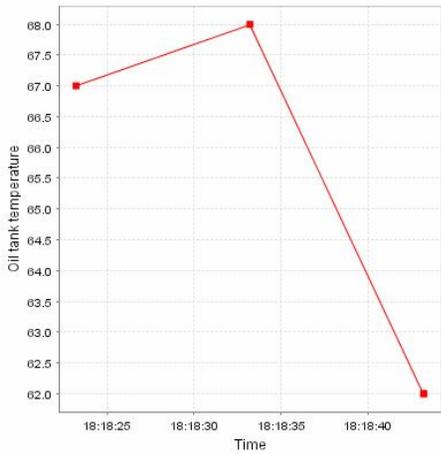
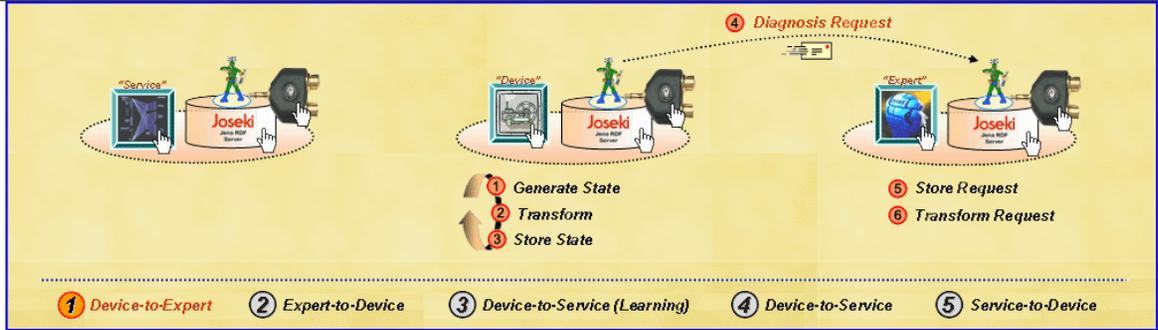
Device KF-330 blow molding machine

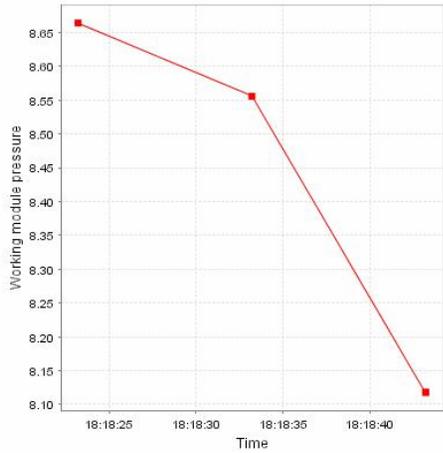
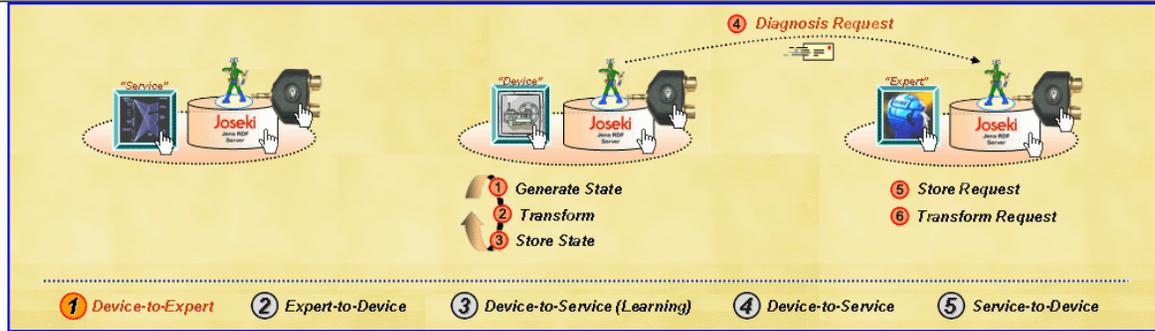
The Contact person is Mr. Chan Tong



The manufacture's phone and fax 886-4-24610589, 886-4-24631205

Mail address of manufacture is 14, LANE 108, YU-MEN ROAD, TAICUNG CITY, TAIWAN





- Passages plugging of the lubricating system
- Passages plugging of the lubricating system
- Leakage of oil in the oil tank
- Disbalancing of the drive shaft of the gear
- Oil tank thermometer probe breakage

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The diagram illustrates a diagnostic process flow involving three main components: "Service", "Device", and "Expert". Each component is represented by a computer monitor icon, a person icon, and a server rack icon, all within a dashed oval. The process is divided into two main phases:

- Left Phase (Device-to-Expert):**
 - 1 Generate State
 - 2 Transform
 - 3 Store State
- Right Phase (Expert-to-Device):**
 - 4 Diagnosis Request (indicated by a dashed arrow from Device to Expert)
 - 5 Store Request
 - 6 Transform Request

Below the diagram, a sequence of five steps is listed:

- 1 Device-to-Expert
- 2 Expert-to-Device
- 3 Device-to-Service (Learning)
- 4 Device-to-Service
- 5 Service-to-Device

Three small line graphs show data points over time (18:18:25 to 18:18:40):

- Graph 1: Y-axis from 4.4 to 7.4. Shows a sharp increase from ~4.4 to ~7.4.
- Graph 2: Y-axis from 237.95 to 238.00. Shows a sharp increase from ~237.95 to ~238.00.
- Graph 3: Y-axis from 130 to 130. Shows a sharp increase from ~130 to ~130.

A large line graph shows Working module pressure (Y-axis, 8.10 to 8.65) over Time (X-axis, 18:18:25 to 18:18:40). The pressure starts at approximately 8.65 at 18:18:25, decreases to 8.55 at 18:18:30, and then drops sharply to 8.10 at 18:18:40.

Disbalancing of the drive shaft of the gear

MakeDiagnosis

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The diagram illustrates a diagnostic process flow involving three components: "Service", "Device", and "Expert". Each component is represented by a "Joseki Java RMI Server" icon. The process is divided into five numbered steps:

- 1 Transform Response
- 2 Store Response
- 3 Diagnosis Response
- 4 Store Response
- 5 Service-to-Device

Below the diagram, a legend identifies the steps:

- 1 Device-to-Expert
- 2 Expert-to-Device
- 3 Device-to-Service (Learning)
- 4 Device-to-Service
- 5 Service-to-Device

Diagnosis has unique identifier: http://www.cc.jyu.fi/~olkluiye/rsdfs/0.3/ontologies/diagnosisOntology#DeviceDiagnosis_3

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```

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE rdf:RDF (View Source for full doctype...)>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:rscdfs="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#"
  xmlns:ontoTempMark="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/tempTempMarkOntology#">
  <!-- Response
  -->
  - <rscdfs:SR_Statement rdf:about="http://chitradurga.ad.jyu.fi:2020/SmartResource#257">
    <rdf:subject rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#expert1" />
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/messageContentOntology#devicePhysicalDiagnosticResponse" />
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
    <rscdfs:trueInContext rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#256" />
  </rscdfs:SR_Statement>
  - <rscdfs:Context_SR_Container rdf:about="http://chitradurga.ad.jyu.fi:2020/SmartResource#256">
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#Message_for_Diagnosis251" />
    <rscdfs:member rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#255" />
  </rscdfs:Context_SR_Container>
  <!-- Diagnosis Statement
  -->
  - <rscdfs:SR_Statement rdf:about="http://chitradurga.ad.jyu.fi:2020/SmartResource#255">
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/conditionOntology#devicePhysicalDiagnosis" />
    <rdf:object rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#DeviceDiagnosis_3" />
    <rscdfs:trueInContext rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#254" />
  </rscdfs:SR_Statement>
  - <rscdfs:Context_SR_Container rdf:about="http://chitradurga.ad.jyu.fi:2020/SmartResource#254">
    <rscdfs:member rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#253" />
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#subhistory251" />
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#rootalarmstatement251" />
    <rscdfs:member rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#expert2WorldStatement" />
  </rscdfs:Context_SR_Container>
  <!-- Time
  -->
  
```

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③ *Diagnosis Response*

④ *Store Response*

① *Transform Response*
② *Store Response*

① *Device-to-Expert* ② *Expert-to-Device* ③ *Device-to-Service (Learning)* ④ *Device-to-Service* ⑤ *Service-to-Device*

Response with diagnostics was successfully stored into Expert History Storage.

Internet

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```

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE rdf:RDF (View Source for full doctype...)>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:rscdfs="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#"
  xmlns:ontoTempMark="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/tempTempMarkOntology#">
  <!-- Response
  -->
  - <rscdfs:SR_Statement rdf:about="http://chitradurga.ad.jyu.fi:2020/SmartResource#257">
    <rdf:subject rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#expert1" />
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/messageContentOntology#devicePhysicalDiagnosticResponse" />
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
    <rscdfs:trueInContext rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#256" />
  </rscdfs:SR_Statement>
  - <rscdfs:Context_SR_Container rdf:about="http://chitradurga.ad.jyu.fi:2020/SmartResource#256">
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#Message_for_Diagnosis251" />
    <rscdfs:member rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#255" />
  </rscdfs:Context_SR_Container>
  <!-- Diagnosis Statement
  -->
  - <rscdfs:SR_Statement rdf:about="http://chitradurga.ad.jyu.fi:2020/SmartResource#255">
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/conditionOntology#devicePhysicalDiagnosis" />
    <rdf:object rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#DeviceDiagnosis_3" />
    <rscdfs:trueInContext rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#254" />
  </rscdfs:SR_Statement>
  - <rscdfs:Context_SR_Container rdf:about="http://chitradurga.ad.jyu.fi:2020/SmartResource#254">
    <rscdfs:member rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#253" />
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#subhistory251" />
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#rootalarmstatement251" />
    <rscdfs:member rdf:resource="http://chitradurga.ad.jyu.fi:2020/SmartResource#expert2WorldStatement" />
  </rscdfs:Context_SR_Container>
  <!-- Time
  -->
  
```

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① Learning Request

② Store Request

③ Transform

① Device-to-Expert ② Expert-to-Device ③ Device-to-Service (Learning) ④ Device-to-Service ⑤ Service-to-Device

```

<rdf:RDF
  xmlns:device="http://ohcejohka.ad.jyu.fi:2020/SmartResource#"
  xmlns:ontoTempMark="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/tempTempMarkOntology#"
  xmlns:expert="http://chitradurga.ad.jyu.fi:2020/SmartResource#"
  xmlns:service="http://pilot.ad.jyu.fi:2020/SmartResource#"
  xmlns:ontoMeasurement="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:ontoCondition="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/conditionOntology#"
  xmlns:ontoContainer="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/containerOntology#"
  xmlns:ontoEnumerativeValue="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/enumerativeValueOntology#"
  xmlns:rscdfs="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:ontoDiagnosis="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#"
  xmlns:ontoDevice="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/deviceOntology#" >
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement80">
    <rscdfs:trueInContext rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#container79temp"/>
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#SR_Statement"/>
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#numValue77"/>
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#KF330_param5"/>
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement160">
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#KF330_param2"/>
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24"/>
    <rscdfs:trueInContext rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#container159temp"/>
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#SR_Statement"/>
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#numValue157"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#contextStatement108sensorID">
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/partOfOntology#devicePartOfWor1d"/>
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#SR_Statement"/>
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#WorldEnvironment"/>
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#SensorII12-D7instance"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#contextStatement108historyStatement202">

```

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① Learning Request

② Store Request
③ Transform

① Device-to-Expert **② Expert-to-Device** **③ Device-to-Service (Learning)** **④ Device-to-Service** **⑤ Service-to-Device**

Request for learning was successfully stored into Service and Device History Storage.

Done Internet

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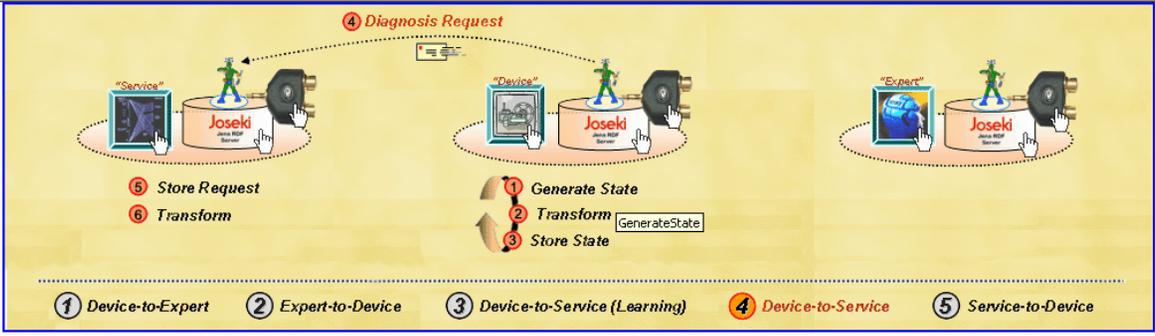
① Learning Request

② Store Request
③ Transform

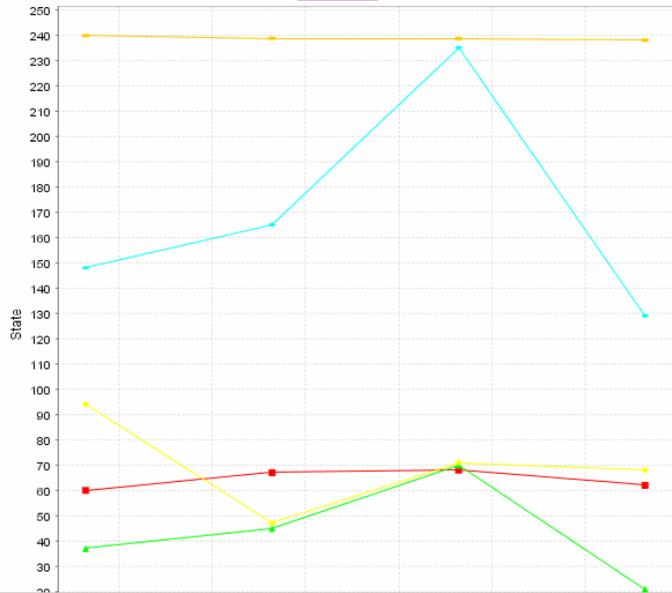
① Device-to-Expert ② Expert-to-Device ③ Device-to-Service (Learning) ④ Device-to-Service ⑤ Service-to-Device

Learned

Internet



State of Device at 2005-02-09T18:18:43.208
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The diagram illustrates a diagnostic process flow involving three main components: Service, Device, and Expert. Each component is represented by a computer monitor icon and a person icon, with the name 'Joseki' below them. The process is divided into five numbered steps:

- 1 Device-to-Expert**: A bidirectional arrow between Device and Expert.
- 2 Expert-to-Device**: A bidirectional arrow between Expert and Device.
- 3 Device-to-Service (Learning)**: A bidirectional arrow between Device and Service.
- 4 Device-to-Service**: A bidirectional arrow between Device and Service.
- 5 Service-to-Device**: A bidirectional arrow between Service and Device.

Additional steps are shown below the main flow:

- 5 Store Request** and **6 Transform**: Located under the Service component.
- 1 Generate State**, **2 Transform**, and **3 Store State**: Located under the Device component.

```

<?xml version="1.0" ?>
<!DOCTYPE rdf:RDF (View Source for full doctype...)>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:rscdfs="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#"
  xmlns:ontoMeasurement="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#"
  xmlns:ontoEnumerativeValue="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/enumerativeValueOntology#"
  xmlns:ontoTempMark="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/tempTempMarkOntology#"
  xmlns:ontoDevice="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/deviceOntology#"
  xmlns:ontoContainer="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/containerOntology#"
  xmlns:ontoDiagnosis="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#"
  xmlns:ontoCondition="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/conditionOntology#" xmlns:device="http://ohcejohka.ad.jyu.fi:2020/SmartResource#"
  xmlns:expert="http://chitradurga.ad.jyu.fi:2020/SmartResource#" xmlns:service="http://pilot.ad.jyu.fi:2020/SmartResource#">
- <rscdfs:SR_Statement rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#StateStatement338">
  <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
  <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/containerOntology#devicePhysicalState" />
  <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#StateContainer334" />
  <rscdfs:trueInContext rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#StateFilterContainer337" />
</rscdfs:SR_Statement>
- <rscdfs:SR_Container rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#StateContainer334">
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement309" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement313" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement317" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement321" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement325" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement329" />
  <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement333" />
</rscdfs:SR_Container>
- <rscdfs:SR_Statement rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#statement309">
  <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
  <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#KF330_param1" />
  <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#numValue306" />
  <rscdfs:trueInContext rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#container308temp" />
</rscdfs:SR_Statement>

```

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4 Diagnosis Request

5 Store Request
6 Transform

1 Generate State
2 Transform
3 Store State

1 Device-to-Expert **2 Expert-to-Device** **3 Device-to-Service (Learning)** **4 Device-to-Service** **5 Service-to-Device**

Device state was successfully stored

Internet

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The diagram illustrates a diagnostic process flow involving three main components: Service, Device, and Expert. Each component is represented by a person icon on a platform labeled 'Joseki'. The process is divided into six numbered steps:

- 1 Generate State
- 2 Transform
- 3 Store State
- 4 Diagnosis Request
- 5 Store Request
- 6 Transform

Below the diagram, a sequence of interactions is shown:

- 1 Device-to-Expert
- 2 Expert-to-Device
- 3 Device-to-Service (Learning)
- 4 Device-to-Service
- 5 Service-to-Device

```

<rdf:RDF
  xmlns:device="http://ohcejohka.ad.jyu.fi:2020/SmartResource#"
  xmlns:ontoTempMark="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/tempTempMarkOntology#"
  xmlns:expert="http://chitradurga.ad.jyu.fi:2020/SmartResource#"
  xmlns:service="http://pilot.ad.jyu.fi:2020/SmartResource#"
  xmlns:ontoMeasurement="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementOntology#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:ontoCondition="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/conditionOntology#"
  xmlns:ontoContainer="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/containerOntology#"
  xmlns:ontoEnumerativeValue="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/enumerativeValueOntology#"
  xmlns:rscdfs="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:ontoDiagnosis="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#"
  xmlns:ontoDevice="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/deviceOntology#" >
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#numValue314">
    <rscdfs:unit rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/measurementUnitOntology#Celsius"/>
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#NumericalValue"/>
    <rscdfs:value>65</rscdfs:value>
  </rdf:Description>
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#contextStatement307sensorID">
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#SensorKS23-Sinstance"/>
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#WorldEnvironment"/>
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/partOfOntology#devicePartOfWorld"/>
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#SR_Statement"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#stateFilterStatement336">
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#SR_Statement"/>
    <rscdfs:trueInContext rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#FilterStatementContextContainer335"/>
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456X224"/>
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#devicePhysicalMeasurement"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://ohcejohka.ad.jyu.fi:2020/SmartResource#ContextContainer_alarm354">
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#contextStatement_AlarmSubHist355"/>
    <rdf:type rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#Context_SR_Container"/>
  </rdf:Description>

```

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4 Diagnosis Request

5 Store Request
6 Transform

1 Generate State
2 Transform
3 Store State

1 Device-to-Expert 2 Expert-to-Device 3 Device-to-Service (Learning) 4 Device-to-Service 5 Service-to-Device

Request for diagnostics was successfully stored into Service and Device History Storages.

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4 Diagnosis Request

5 Store Request
6 Transform

1 Generate State
2 Transform
3 Store State

1 Device-to-Expert **2 Expert-to-Device** **3 Device-to-Service (Learning)** **4 Device-to-Service** **5 Service-to-Device**

Diagnosis has unique identifier: http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#DeviceDiagnosis_3

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③ Diagnosis Response

① Transform Response
② Store Response

④ Store Response

⑤ Service-to-Device

① Device-to-Expert ② Expert-to-Device ③ Device-to-Service (Learning) ④ Device-to-Service

```

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE rdf:RDF (View Source for full doctype...)>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:rscdfs="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#"
  xmlns:ontoTempMark="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/tempTempMarkOntology#">
  <!-- Response
  -->
  - <rscdfs:SR_Statement rdf:about="http://pilot.ad.jyu.fi:2020/SmartResource#360">
    <rdf:subject rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#knnservice1" />
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/messageContentOntology#devicePhysicalDiagnosticResponse" />
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
    <rscdfs:trueInContext rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#359" />
  </rscdfs:SR_Statement>
  - <rscdfs:Context_SR_Container rdf:about="http://pilot.ad.jyu.fi:2020/SmartResource#359">
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#Message_for_Diagnosis354" />
    <rscdfs:member rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#358" />
  </rscdfs:Context_SR_Container>
  <!-- Diagnosis Statement
  -->
  - <rscdfs:SR_Statement rdf:about="http://pilot.ad.jyu.fi:2020/SmartResource#358">
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/conditionOntology#devicePhysicalDiagnosis" />
    <rdf:object rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#DeviceDiagnosis_3" />
    <rscdfs:trueInContext rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#357" />
  </rscdfs:SR_Statement>
  - <rscdfs:Context_SR_Container rdf:about="http://pilot.ad.jyu.fi:2020/SmartResource#357">
    <rscdfs:member rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#356" />
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#subhistory354" />
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#rootalarmstatement354" />
    <rscdfs:member rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#Service2WorldStatement" />
  </rscdfs:Context_SR_Container>
  <!-- Time
  -->
  
```

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```

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE rdf:RDF (View Source for full doctype...)>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:rscdfs="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/rscdfs#"
  xmlns:ontoTempMark="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/tempTempMarkOntology#">
  <!-- Response
  -->
  - <rscdfs:SR_Statement rdf:about="http://pilot.ad.jyu.fi:2020/SmartResource#360">
    <rdf:subject rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#knnservice1" />
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/messageContentOntology#devicePhysicalDiagnosticResponse" />
    <rdf:object rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
    <rscdfs:trueInContext rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#359" />
    </rscdfs:SR_Statement>
  - <rscdfs:Context_SR_Container rdf:about="http://pilot.ad.jyu.fi:2020/SmartResource#359">
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#Message_for_Diagnosis354" />
    <rscdfs:member rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#358" />
    </rscdfs:Context_SR_Container>
  <!-- Diagnosis Statement
  -->
  - <rscdfs:SR_Statement rdf:about="http://pilot.ad.jyu.fi:2020/SmartResource#358">
    <rdf:subject rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#123456XZ24" />
    <rscdfs:predicate rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/conditionOntology#devicePhysicalDiagnosis" />
    <rdf:object rdf:resource="http://www.cc.jyu.fi/~olkhriye/rscdfs/0.3/ontologies/diagnosisOntology#DeviceDiagnosis_3" />
    <rscdfs:trueInContext rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#357" />
    </rscdfs:SR_Statement>
  - <rscdfs:Context_SR_Container rdf:about="http://pilot.ad.jyu.fi:2020/SmartResource#357">
    <rscdfs:member rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#356" />
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#subhistory354" />
    <rscdfs:member rdf:resource="http://ohcejohka.ad.jyu.fi:2020/SmartResource#rootalarmstatement354" />
    <rscdfs:member rdf:resource="http://pilot.ad.jyu.fi:2020/SmartResource#Service2WorldStatement" />
    </rscdfs:Context_SR_Container>
  <!-- Time
  -->
  
```

Done Internet

http://127.0.0.1:8080/WebPrototype/frames.html - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address http://127.0.0.1:8080/WebPrototype/frames.html Go Links

③ *Diagnosis Response*

① *Transform Response*
② *Store Response*

④ *Store Response*

① *Device-to-Expert* ② *Expert-to-Device* ③ *Device-to-Service (Learning)* ④ *Device-to-Service* ⑤ *Service-to-Device*

Response with diagnostics was successfully stored into Device History Storage.

Done Internet