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Learning agent organisations: studies on collaborative modelling, performance management and learning capacities of networks of collaborative agents

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APPENDIX C:

INDICATOR INFORMATION REQUEST

Example of an indicator request

The CIS-agents of the DI³ system, as discussed in chapter 5, share indicator requests. These requests are defined in XML files and contain the rules and behaviour of the metric measurements.

```
<?xml version="1.0" encoding="UTF-8"?>
<message receiver="DI3Cis" sender="sid" type="scheduleMeasurement">
  <indicator id="123456789101234567890">
    <name>CNO-Progress-Percentage Done</name>
    <description>percentace done of gears</description>
    <cno id="cno id" name="VF Test CNO"/>
    <calculationrules>
      <calculationrule id="IC1" expression="(Wellen+Gehause)/2" />
    </calculationrules>
    <calculationmometrurules>
      <calculationmometrurule name="wait for all and flush"/>
    </calculationmometrurules>
    <provisionrules>
      <provisionrule id="IPR1" name="at_calculation" expression="" />
    </provisionrules>
    <metrics>
      <metric id="1" type="integer">
        <name>Wellen</name>
        <description>Percentage done of Wellen</description>
        <workergroup id>Innotool AG</workergroup id>
        <measurementrules>
          <measurementrule expression="4" id="MMR1"
name="frequency_seconds"/>
        </measurementrules>
        <provisionrules>
          <provisionrule id="MPR1" name="at_measurement" receiver="CIS"/>
        </provisionrules>
      </metric>
      <metric id="2" type="integer">
        <name>Gehause</name>
        <description>Percentage done Gehause</description>
        <workergroup id>Greminger AG</workergroup id>
        <measurementrules>
          <measurementrule id="MMR2" name="frequency_seconds" expression="7"
/>
        </measurementrules>
        <provisionrules>
          <provisionrule id="MPR2" name="at_measurement" receiver="CIS"/>
        </provisionrules>
      </metric>
    </metrics>
  </indicator>
</message>
```