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<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<!--2016.07.06-12:27:06 Powered by Fuhua Technologies -->
<!--2016.07.06-12:27:06 This file is generated using Fuhua Model Designer-->
<!--2016.07.06-12:27:06 For more information please visit www.iedmodeler.com-->
<SCL xmlns="http://www.iec.ch/61850/2003/SCL" revision="A" version="2007"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.iec.ch/61850/2003/SCL
../schema/iec61850.schema.v2.0/SCL.xsd">
  <Header id="" nameStructure="IEDName" toolID="Hedera by JPE">
    <History>
      <Hitem revision="A" version="1" when="20 October 2016"/>
    </History>
  </Header>
  <Communication>
    <SubNetwork name="SN09476df0">
      <ConnectedAP apName="AP09476f58" iedName="Protect">
        <Address>
          <P type="OSI-AP-Title">1 3 9999 33</P>
          <P type="OSI-AE-Qualifier">33</P>
          <P type="OSI-PSEL">00 00 00 01</P>
          <P type="OSI-SSEL">00 01</P>
          <P type="OSI-TSEL">00 01</P>
          <P type="MMS-Port">102</P>
          <P type="IP">10.0.0.20</P>
          <P type="IP-SUBNET">255.255.255.0</P>
          <P type="IP-GATEWAY">10.0.0.1</P>
        </Address>
        <GSE ldInst="Si" cbName="gocbEvents">
          <Address>
            <P type="VLAN-ID">007</P>
            <P type="VLAN-PRIORITY">4</P>
            <P type="MAC-Address">01-0C-CD-01-00-01</P>
            <P type="APPID">1001</P>
          </Address>
        </GSE>
        <GSE ldInst="Si" cbName="gocbREvents">
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            <P type="VLAN-PRIORITY">4</P>
            <P type="IP">239.1.1.72</P>
            <P type="IP-IGMPv3Src">10.1.1.72</P>
            <P type="IP-ClassOfTraffic">1</P>
            <P type="APPID">2001</P>
          </Address>
        </GSE>
      </ConnectedAP>
    </SubNetwork>
  </Communication>
  <IED name="Protect">
    <Services>
      <DynAssociation/>
      <GetDirectory/>
      <GetDataObjectDefinition/>
      <DataObjectDirectory/>
    </Services>
  </IED>
</SCL>

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    <GetDataSetValue/>
    <SetDataSetValue/>
    <DataSetDirectory/>
    <ConfDataSet max="8" maxAttributes="12"/>
    <DynDataSet max="8" maxAttributes="12"/>
    <ReadWrite/>
    <ConfReportControl max="10"/>
    <GetCBValues/>
    <ReportSettings bufTime="Dyn" cbName="Dyn" datSet="Dyn" intgPd="Dyn"
optFields="Dyn" rptID="Dyn" trgOps="Dyn"/>
    <GSESettings appID="Dyn" cbName="Dyn" datSet="Dyn" dataLabel="Dyn"/>
    <GOOSE max="16"/>
    <ConfLNs fixLnInst="true" fixPrefix="true"/>
</Services>
<AccessPoint name="AP09476f58">
    <Server>
        <Authentication/>
        <LDevice inst="Si">
            <LN0 inst="" lnClass="LLN0" lnType="LLN0">
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fc="MX"/>
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="A.phsB"
fc="MX"/>
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="A.phsC"
fc="MX"/>
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="PF.phsA"
fc="MX"/>
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="PF.phsB"
fc="MX"/>
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="PF.phsC"
fc="MX"/>
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="PPV.phsAB"
fc="MX"/>
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="TotPF.mag"
fc="MX"/>
                    <FCDA ldInst="Si" prefix="demo" lnClass="XCBR" lnInst="1"
doName="Pos" daName="stVal" fc="ST"/>
                </DataSet>
                <DataSet name="DataSet2">
                    <FCDA ldInst="Si" lnClass="PTOC" lnInst="1" doName="Str"
daName="phsA" fc="ST"/>
                </DataSet>
                <DataSet name="DataSet3">
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="TotVA.mag"
fc="MX"/>
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="TotVAr.mag"
fc="MX"/>
                    <FCDA ldInst="Si" lnClass="MMXU" lnInst="1" doName="A.phsA"
daName="rangeC.hLim.f" fc="CF"/>
                </DataSet>
                <ReportControl bufTime="3000" buffered="false" confRev="1"
datSet="DataSet1" intgPd="5000" name="urCB" rptID="096c8568">
                    <TrgOps dchg="true" dupd="true" period="false" qchg="true"

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gi="true"/>
    <OptFields bufOvfl="true" configRef="false" dataRef="true"
dataSet="false" entryID="true" reasonCode="true" seqNum="true"
timeStamp="true"/>
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    </ReportControl>
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datSet="DataSet3" intgPd="5000" name="brCB" rptID="096c8599">
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gi="false"/>
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dataSet="false" entryID="true" reasonCode="true" seqNum="true"
timeStamp="true"/>
    <RptEnabled max="2"/>
    </ReportControl>
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    <TrgOps dchg="true" qchg="true"/>
    </LogControl>
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    <DAI name="stVal"><Val>on</Val></DAI>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="d"/>
    </DOI>
    <DOI name="Mod">
    <SDI name="origin">
    <DAI name="orCat"/>
    <DAI name="orIdent"/>
    </SDI>
    <DAI name="ctlNum"/>
    <DAI name="stVal"><Val>on</Val></DAI>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="stSeld"/>
    <DAI name="opRcvd"/>
    <DAI name="opOk"/>
    <DAI name="tOpOk"/>
    <DAI name="subEna"/>
    <DAI name="subVal"/>
    <DAI name="subQ"/>
    <DAI name="subID"/>
    <DAI name="blkEna"/>
    <DAI name="ctlModel"><Val>status-only</Val></DAI>
    </DOI>
    <DOI name="Health">
    <DAI name="stVal"><Val>Ok</Val></DAI>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="d"/>
    </DOI>
    <DOI name="NamPlt">
    <DAI name="vendor"><Val>JPEmbedded</Val></DAI>
    <DAI name="swRev"><Val>4.5.3</Val></DAI>

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    <GSEControl name="gocbEvents" type="GOOSE" appID="GO-demoApp-1001"
confRev="1" dataSet="DataSet1"/>
    <GSEControl name="gocbREvents" type="GOOSE" appID="GO-demoApp-2001"
confRev="1" dataSet="DataSet1">
        <Protocol mustUnderstand="true">R-GOOSE</Protocol>
    </GSEControl>
</LN0>
<LN inst="1" lnClass="LPHD" lnType="LPHD">
    <DOI name="PhyHealth">
        <DAI name="stVal"><Val>Ok</Val></DAI>
        <DAI name="q"/>
        <DAI name="t"/>
        <DAI name="d"/>
    </DOI>
    <DOI name="PhyNam">
        <DAI name="vendor"><Val>JPEmbedded</Val></DAI>
        <DAI name="hwRev"><Val>1.0</Val></DAI>
        <DAI name="swRev"><Val>4.5.3</Val></DAI>
        <DAI name="serNum"><Val>1.0</Val></DAI>
        <DAI name="model"><Val>demo-ProtectSi</Val></DAI>
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        <DAI name="d"><Val>Protection IED</Val></DAI>
    </DOI>
    <DOI name="Proxy">
        <DAI name="stVal"/>
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        <DAI name="t"/>
        <DAI name="d"/>
    </DOI>
</LN>
<LN inst="1" lnClass="LGOS" lnType="LGOS">
    <DOI name="Beh">
        <DAI name="stVal"><Val>on</Val></DAI>
        <DAI name="d"><Val>GOOSE subscription behaviour</Val></DAI>
    </DOI>
    <DOI name="St">
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        <DAI name="d"><Val>LGOS enable status</Val></DAI>
    </DOI>
    <DOI name="GoCBRef">
        <DAI name="setSrcRef"><Val>Test/LLN0$GOCB1</Val></DAI>
        <DAI name="intAddr"><Val>8193</Val></DAI>
        <DAI name="d"><Val>RX GOOSE identification</Val></DAI>
    </DOI>
</LN>
<LN inst="1" lnClass="XCBR" lnType="XCBR" prefix="demo">
    <DOI name="Beh">
        <DAI name="stVal"><Val>on</Val></DAI>
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        <DAI name="t"/>

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    <DAI name="d"><Val>Circuit breaker behaviour</Val></DAI>
</DOI>
<DOI name="Mod">
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    </SDI>
    <DAI name="ctlNum"/>
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    <DAI name="t"/>
    <DAI name="stSeld"/>
    <DAI name="opRcvd"/>
    <DAI name="opOk"/>
    <DAI name="tOpOk"/>
    <DAI name="subEna"/>
    <DAI name="subVal"/>
    <DAI name="subQ"/>
    <DAI name="subID"/>
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</DOI>
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    <DAI name="d"/>
</DOI>
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    <DAI name="stVal"/>
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    <DAI name="d"/>
</DOI>
<DOI name="Pos">
    <DAI name="stVal"/>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="stSeld"/>
    <DAI name="ctlModel"><Val>status-only</Val></DAI>
    <DAI name="d"><Val>Circuit breaker position</Val></DAI>
</DOI>
<DOI name="BlkOpn">
    <DAI name="stVal"/>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="ctlModel"><Val>status-only</Val></DAI>
    <DAI name="d"><Val>Circuit breaker switching enabled</Val></DAI>
</DOI>
<DOI name="BlkCls">
    <DAI name="stVal"/>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="ctlModel"><Val>status-only</Val></DAI>

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        <DAI name="d"><Val>Circuit breaker switching blocked</Val></DAI>
    </DOI>
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        <DAI name="ctlModel">
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        </DAI>
    </DOI>
    <DOI name="NamPlt">
        <DAI name="vendor">
            <Val>JPEmbedded demo</Val>
        </DAI>
        <DAI name="swRev">
            <Val>4.5.3</Val>
        </DAI>
        <DAI name="d">
            <Val>Terminal switch no. 1</Val>
        </DAI>
    </DOI>
    <DOI name="Pos">
        <DAI name="ctlModel">
            <Val>status-only</Val>
        </DAI>
    </DOI>
    <DOI name="BlkOpn">
        <DAI name="ctlModel">
            <Val>status-only</Val>
        </DAI>
    </DOI>
    <DOI name="BlkCls">
        <DAI name="ctlModel">
            <Val>status-only</Val>
        </DAI>
    </DOI>
</LN>
<LN inst="1" lnClass="YLTC" lnType="YLTC">
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        <DAI name="t"/>
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    </DOI>
    <DOI name="EndPosL">
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        <DAI name="q"/>
        <DAI name="t"/>
        <DAI name="d"><Val>End position lower reached</Val></DAI>
    </DOI>
    <DOI name="EndPosR">
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        <DAI name="t"/>
        <DAI name="d"><Val>End position raise reached</Val></DAI>
    </DOI>

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</DOI>
<DOI name="TapChg">
  <SDI name="valWTr">
    <DAI name="posVal"><Val>1</Val></DAI>
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  </SDI>
  <DAI name="q"/>
  <DAI name="t"/>
  <DAI name="persistent"><Val>>false</Val></DAI>
  <DAI name="ctlModel"><Val>status-only</Val></DAI>
  <DAI name="d"><Val>Change tap position (stop, higher,
lower)</Val></DAI>
</DOI>
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    <DAI name="t"/>
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    <DAI name="ctlNum"/>
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    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="stSeld"/>
    <DAI name="opRcvd"/>
    <DAI name="opOk"/>
    <DAI name="tOpOk"/>
    <DAI name="subEna"/>
    <DAI name="subVal"/>
    <DAI name="subQ"/>
    <DAI name="subID"/>
    <DAI name="blkEna"/>
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    <DAI name="d"/>
  </DOI>
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    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="stSeld"/>
    <DAI name="ctlModel"><Val>status-only</Val></DAI>
    <DAI name="d"/>
  </DOI>

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    <DAI name="t"/>
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  <DOI name="EnaCls">
    <DAI name="stVal"/>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="d"><Val>Enable close</Val></DAI>
  </DOI>
  <DOI name="EnaOpn">
    <DAI name="stVal"/>
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    <DAI name="t"/>
    <DAI name="d"><Val>Enable open</Val></DAI>
  </DOI>
</LN>
<LN inst="1" lnClass="MMXU" lnType="MMXU">
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    <DAI name="stVal"><Val>on</Val></DAI>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="d"><Val>Measurement unit behaviour</Val></DAI>
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    </SDI>
    <DAI name="ctlNum"/>
    <DAI name="stVal"><Val>on</Val></DAI>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="stSeld"/>
    <DAI name="opRcvd"/>
    <DAI name="opOk"/>
    <DAI name="tOpOk"/>
    <DAI name="subEna"/>
    <DAI name="subVal"/>
    <DAI name="subQ"/>
    <DAI name="subID"/>
    <DAI name="blkEna"/>
    <DAI name="ctlModel"><Val>status-only</Val></DAI>
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      </SDI>
    </SDI>
  </DOI>

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</SDI>
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        <DAI name="f"/>
    </SDI>
    <SDI name="hLim">
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        <DAI name="f"/>
    </SDI>
    <SDI name="lLim">
        <DAI name="i"/>
        <DAI name="f"/>
    </SDI>
    <SDI name="llLim">
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    </SDI>
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    <SDI name="hLim">
        <DAI name="i"/>

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    </SDI>
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    </SDI>
</SDI>
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<DAI name="smpRate"/>
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</SDI>
<SDI name="phsB">
    <SDI name="instCVal">
        <SDI name="mag">
            <DAI name="i"/>
            <DAI name="f"/>
        </SDI>
        <SDI name="ang">
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            <DAI name="f"/>
        </SDI>
    </SDI>
</SDI>
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    <SDI name="mag">
        <DAI name="i"/>
        <DAI name="f"/>
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        <DAI name="i"/>
        <DAI name="f"/>
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</SDI>
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</SDI>
<SDI name="rangeC">
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        <DAI name="i"/>
        <DAI name="f"/>
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</SDI>
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  <DAI name="f"/>
</SDI>
<SDI name="lLim">
  <DAI name="i"/>
  <DAI name="f"/>
</SDI>
<SDI name="llLim">
  <DAI name="i"/>
  <DAI name="f"/>
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<SDI name="min">
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</SDI>
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  <DAI name="f"><Val>99.99</Val></DAI>
</SDI>
</SDI>
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    <DAI name="f"/>
  </SDI>
  <SDI name="hLim">
    <DAI name="i"/>
    <DAI name="f"/>
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  <SDI name="lLim">
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    <DAI name="f"/>
  </SDI>
  <SDI name="llLim">
    <DAI name="i"/>
    <DAI name="f"/>
  </SDI>
  <SDI name="min">
    <DAI name="i"><Val>0</Val></DAI>
    <DAI name="f"><Val>0.0</Val></DAI>
  </SDI>
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  </SDI>
</SDI>
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<DAI name="t"/>
<DAI name="db"/>
<DAI name="smpRate"/>
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</SDI>

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<SDI name="phsC">
  <SDI name="instCVal">
    <SDI name="mag">
      <DAI name="i"/>
      <DAI name="f"/>
    </SDI>
    <SDI name="ang">
      <DAI name="i"/>
      <DAI name="f"/>
    </SDI>
  </SDI>
<SDI name="cVal">
  <SDI name="mag">
    <DAI name="i"/>
    <DAI name="f"/>
  </SDI>
  <SDI name="ang">
    <DAI name="i"/>
    <DAI name="f"/>
  </SDI>
</SDI>
<SDI name="units">
  <DAI name="SIUnit"/>
  <DAI name="multiplier"/>
</SDI>
<SDI name="rangeC">
  <SDI name="hhLim">
    <DAI name="i"/>
    <DAI name="f"/>
  </SDI>
  <SDI name="hLim">
    <DAI name="i"/>
    <DAI name="f"/>
  </SDI>
  <SDI name="lLim">
    <DAI name="i"/>
    <DAI name="f"/>
  </SDI>
  <SDI name="llLim">
    <DAI name="i"/>
    <DAI name="f"/>
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currents)</Val></DAI>
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    </SDI>
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    <SDI name="hhLim">
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<LN inst="1" lnClass="ATCC" lnType="ATCC">
  <DOI name="Beh">
    <DAI name="stVal"><Val>on</Val></DAI>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="d"><Val>Automatic tap changer controller
behaviour</Val></DAI>
  </DOI>
  <DOI name="CtlV">
    <SDI name="instMag">
      <DAI name="i"/>
      <DAI name="f"/>
    </SDI>
    <SDI name="mag">
      <DAI name="i"/>

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        <DAI name="f"/>
    </SDI>
    <DAI name="range"/>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="db"/>
    <DAI name="d"/>
</DOI>
<DOI name="TapChg">
    <SDI name="valWTr">
        <DAI name="posVal"><Val>1</Val></DAI>
        <DAI name="transInd"><Val>>false</Val></DAI>
    </SDI>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="persistent"><Val>>false</Val></DAI>
    <DAI name="ctlModel"><Val>status-only</Val></DAI>
    <DAI name="d"><Val>Change tap position (stop, higher,
lower)</Val></DAI>
</DOI>
<DOI name="ParOp">
    <DAI name="stVal"/>
    <DAI name="q"/>
    <DAI name="t"/>
    <DAI name="ctlModel"><Val>status-only</Val></DAI>
    <DAI name="d"/>
</DOI>
</LN>
</LDevice>
</Server>
</AccessPoint>
</IED>
<DataTypeTemplates>
    <LNNodeType id="LLN0" lnClass="LLN0">
        <DO name="Beh" type="ENS_0"/>
        <DO name="Mod" type="ENC_0"/>
        <DO name="Health" type="ENS_1"/>
        <DO name="NamPlt" type="LPL_0"/>
    </LNNodeType>
    <LNNodeType id="LPHD" lnClass="LPHD">
        <DO name="PhyNam" type="DPL_0"/>
        <DO name="PhyHealth" type="ENS_1"/>
        <DO name="Proxy" type="SPS_0"/>
    </LNNodeType>
    <LNNodeType id="LGOS" lnClass="LGOS">
        <DO name="Beh" type="ENS_0"/>
        <DO name="St" type="SPS_0"/>
        <DO name="GoCRef" type="ORG_0"/>
    </LNNodeType>
    <LNNodeType id="XCBR" lnClass="XCBR">
        <DO name="Beh" type="ENS_0"/>
        <DO name="Mod" type="ENC_0"/>
        <DO name="Loc" type="SPS_0"/>
        <DO name="OpCnt" type="INS_0"/>
    </LNNodeType>

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    <DO name="Pos" type="DPC_0"/>
    <DO name="BlkOpn" type="SPC_0"/>
    <DO name="BlkCls" type="SPC_0"/>
    <DO name="CBTmms" type="ING_0"/>
  </LNodeType>
  <LNodeType id="XSWI" lnClass="XSWI">
    <DO name="Beh" type="ENS_0" />
    <DO name="Mod" type="ENC_0" />
    <DO name="Health" type="INS_1" />
    <DO name="NamPlt" type="LPL_0" />
    <DO name="Loc" type="SPS_0" />
    <DO name="OpCnt" type="INS_0" />
    <DO name="Pos" type="DPC_0" />
    <DO name="BlkOpn" type="SPC_0" />
    <DO name="BlkCls" type="SPC_0" />
    <DO name="SwTyp" type="INS_0" />
    <DO name="SwOpCap" type="INS_0" />
  </LNodeType>
  <LNodeType id="YLTC" lnClass="YLTC">
    <DO name="Beh" type="ENS_0"/>
    <DO name="EndPosR" type="SPS_0"/>
    <DO name="EndPosL" type="SPS_0"/>
    <DO name="TapChg" type="BSC_0"/>
  </LNodeType>
  <LNodeType id="CSWI" lnClass="CSWI">
    <DO name="Beh" type="ENS_0"/>
    <DO name="Mod" type="ENC_0"/>
    <DO name="Health" type="ENS_1"/>
    <DO name="Pos" type="DPC_0"/>
  </LNodeType>
  <LNodeType id="CILO" lnClass="CILO">
    <DO name="Beh" type="ENS_0"/>
    <DO name="EnaOpn" type="SPS_0"/>
    <DO name="EnaCls" type="SPS_0"/>
  </LNodeType>
  <LNodeType id="MMXU" lnClass="MMXU">
    <DO name="Beh" type="ENS_0"/>
    <DO name="Mod" type="ENC_0"/>
    <DO name="A" type="WYE_0"/>
    <DO name="VAr" type="WYE_0"/>
    <DO name="PF" type="WYE_0"/>
    <DO name="PPV" type="DEL_0"/>
    <DO name="TotPF" type="MV_0"/>
    <DO name="TotVA" type="MV_0"/>
    <DO name="TotVAr" type="MV_0"/>
    <DO name="TotW" type="MV_0"/>
    <DO name="ClcExp" type="SPS_0"/>
    <DO name="ClcMth" type="ENG_0"/>
  </LNodeType>
  <LNodeType id="PTOC" lnClass="PTOC">
    <DO name="Beh" type="ENS_0"/>
    <DO name="Mod" type="ENC_0"/>
    <DO name="Str" type="ACD_0"/>
    <DO name="Op" type="ACT_0"/>
  </LNodeType>

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```

    <DO name="RsDlTmms" type="ING_0"/>
    <DO name="DirMod" type="ENG_0"/>
</LNodeType>
<LNodeType id="ATCC" lnClass="ATCC">
    <DO name="Beh" type="ENS_0"/>
    <DO name="CtlV" type="MV_0"/>
    <DO name="TapChg" type="BSC_0"/>
    <DO name="ParOp" type="SPC_0"/>
</LNodeType>
<LNodeType id="TCTR" lnClass="TCTR">
    <DO name="Beh" type="ENS_0"/>
    <DO name="AmpSv" type="SAV_0"/>
</LNodeType>
<DOType cdc="ENS" id="ENS_0">
    <DA bType="Enum" fc="ST" name="stVal" type="Beh"/>
    <DA bType="Quality" fc="ST" name="q"/>
    <DA bType="Timestamp" fc="ST" name="t"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="ENS" id="ENS_1">
    <DA bType="Enum" fc="ST" name="stVal" type="Health"/>
    <DA bType="Quality" fc="ST" name="q"/>
    <DA bType="Timestamp" fc="ST" name="t"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="ENC" id="ENC_0">
    <DA bType="Struct" fc="ST" name="origin" type="Originator"/>
    <DA bType="INT8U" fc="ST" name="ctlNum"/>
    <DA bType="Enum" dchg="true" fc="ST" name="stVal" type="Mod"/>
    <DA bType="Quality" fc="ST" name="q" qchg="true"/>
    <DA bType="Timestamp" fc="ST" name="t"/>
    <DA bType="BOOLEAN" dchg="true" fc="ST" name="stSeld"/>
    <DA bType="BOOLEAN" fc="OR" name="opRcvd"/>
    <DA bType="BOOLEAN" fc="OR" name="opOk"/>
    <DA bType="Timestamp" fc="OR" name="tOpOk"/>
    <DA bType="BOOLEAN" fc="SV" name="subEna"/>
    <DA bType="Enum" dchg="true" fc="SV" name="subVal" type="Mod"/>
    <DA bType="Quality" fc="SV" name="subQ" qchg="true"/>
    <DA bType="BOOLEAN" fc="BL" name="blkEna"/>
    <DA bType="Enum" fc="CF" name="ctlModel" type="ctlModel"/>
</DOType>
<DOType cdc="DPL" id="DPL_0">
    <DA bType="VisString255" fc="DC" name="vendor"/>
    <DA bType="VisString255" fc="DC" name="hwRev"/>
    <DA bType="VisString255" fc="DC" name="swRev"/>
    <DA bType="VisString255" fc="DC" name="serNum"/>
    <DA bType="VisString255" fc="DC" name="model"/>
    <DA bType="FLOAT32" fc="DC" name="latitude"/>
    <DA bType="FLOAT32" fc="DC" name="longitude"/>
    <DA bType="FLOAT32" fc="DC" name="altitude"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="SPS" id="SPS_0">
    <DA bType="BOOLEAN" dchg="true" fc="ST" name="stVal"/>

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    <DA bType="Quality" fc="ST" name="q" qchg="true"/>
    <DA bType="Timestamp" fc="ST" name="t"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DType>
<DType cdc="INS" id="INS_0">
    <DA bType="INT32" dchg="true" fc="ST" name="stVal"/>
    <DA bType="Quality" fc="ST" name="q" qchg="true"/>
    <DA bType="Timestamp" fc="ST" name="t"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DType>
<DType cdc="INS" id="INS_1">
    <DA bType="Enum" dchg="true" fc="ST" name="stVal" type="Health"/>
    <DA bType="Quality" fc="ST" name="q" qchg="true"/>
    <DA bType="Timestamp" fc="ST" name="t"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DType>
<DType cdc="DPC" id="DPC_0">
    <DA bType="Dbpos" dchg="true" fc="ST" name="stVal"/>
    <DA bType="Quality" fc="ST" name="q" qchg="true"/>
    <DA bType="Timestamp" fc="ST" name="t"/>
    <DA bType="BOOLEAN" dchg="true" fc="ST" name="stSeld"/>
    <DA bType="Enum" fc="CF" name="ctlModel" type="ctlModel"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DType>
<DType cdc="SPC" id="SPC_0">
    <DA bType="BOOLEAN" dchg="true" fc="ST" name="stVal"/>
    <DA bType="Quality" fc="ST" name="q" qchg="true"/>
    <DA bType="Timestamp" fc="ST" name="t"/>
    <DA bType="Enum" fc="CF" name="ctlModel" type="ctlModel"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DType>
<DType cdc="WYE" id="WYE_0">
    <SDO name="phsA" type="CMV_0"/>
    <SDO name="phsB" type="CMV_0"/>
    <SDO name="phsC" type="CMV_0"/>
    <SDO name="neut" type="CMV_0"/>
    <SDO name="net" type="CMV_0"/>
    <SDO name="res" type="CMV_0"/>
    <DA bType="Enum" fc="CF" name="angRef" type="angRefWYE"/>
    <DA bType="BOOLEAN" fc="CF" name="phsToNeut"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DType>
<DType cdc="CMV" id="CMV_0">
    <DA bType="Struct" fc="MX" name="instCVal" type="Vector"/>
    <DA bType="Struct" dchg="true" fc="MX" name="cVal" type="Vector"/>
    <DA bType="Quality" fc="MX" name="q" qchg="true"/>
    <DA bType="Timestamp" fc="MX" name="t"/>
    <DA bType="Struct" fc="CF" name="units" type="Unit"/>
    <DA bType="Struct" fc="CF" name="rangeC" type="RangeConfig"/>
    <DA bType="Struct" fc="CF" name="rangeAngC" type="RangeConfig"/>
    <DA bType="INT32U" fc="CF" name="db"/>
    <DA bType="INT32U" fc="CF" name="smpRate"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DType>

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<DOType cdc="LPL" id="LPL_0">
  <DA bType="VisString255" fc="DC" name="vendor"/>
  <DA bType="VisString255" fc="DC" name="swRev"/>
  <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="DEL" id="DEL_0">
  <SDO name="phsAB" type="CMV_0"/>
  <SDO name="phsBC" type="CMV_0"/>
  <SDO name="phsCA" type="CMV_0"/>
  <DA bType="Enum" fc="CF" name="angRef" type="angRefWYE"/>
  <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="MV" id="MV_0">
  <DA bType="Struct" fc="MX" name="instMag" type="AnalogueValue"/>
  <DA bType="Struct" dchg="true" dupd="false" fc="MX" name="mag"
type="AnalogueValue"/>
  <DA bType="Enum" fc="MX" name="range" type="range"/>
  <DA bType="Quality" fc="MX" name="q" qchg="true"/>
  <DA bType="Timestamp" fc="MX" name="t"/>
  <DA bType="INT32U" fc="CF" name="db"/>
  <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="ACD" id="ACD_0">
  <DA bType="BOOLEAN" dchg="true" fc="ST" name="general"/>
  <DA bType="Enum" dchg="true" fc="ST" name="dirGeneral" type="dirGeneral"/>
  <DA bType="BOOLEAN" dchg="true" fc="ST" name="phsA"/>
  <DA bType="Enum" dchg="true" fc="ST" name="dirPhsA" type="dirGeneral"/>
  <DA bType="Quality" fc="ST" name="q" qchg="true"/>
  <DA bType="Timestamp" fc="ST" name="t"/>
  <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="ACT" id="ACT_0">
  <DA bType="BOOLEAN" dchg="true" fc="ST" name="general"/>
  <DA bType="BOOLEAN" dchg="true" fc="ST" name="phsA"/>
  <DA bType="Quality" fc="ST" name="q" qchg="true"/>
  <DA bType="Timestamp" fc="ST" name="t"/>
  <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="SAV" id="SAV_0">
  <DA bType="Struct" fc="MX" name="instMag" type="AnalogueValue"/>
  <DA bType="Quality" fc="MX" name="q" qchg="true"/>
  <DA bType="Timestamp" fc="MX" name="t"/>
  <DA bType="Struct" fc="CF" name="units" type="Unit"/>
  <DA bType="Struct" fc="CF" name="sVC" type="ScaledValueConfig"/>
  <DA bType="Struct" fc="CF" name="min" type="AnalogueValue"/>
  <DA bType="Struct" fc="CF" name="max" type="AnalogueValue"/>
  <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="ORG" id="ORG_0">
  <DA bType="ObjRef" fc="SP" name="setSrcRef"/>
  <DA bType="ObjRef" fc="SP" name="setTstRef"/>
  <DA bType="ObjRef" fc="SP" name="setSrcCB"/>
  <DA bType="ObjRef" fc="SP" name="setTstCB"/>
  <DA bType="VisString255" fc="SP" name="intAddr"/>

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    <DA bType="BOOLEAN" fc="SP" name="tstEna"/>
    <DA bType="VisString255" fc="DC" name="purpose"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="ENG" id="ENG_0">
    <DA bType="Enum" fc="SP" name="setVal" type="tempEnum"/>
    <DA bType="Enum" fc="SE" name="setVal" type="tempEnum"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="ING" id="ING_0">
    <DA bType="INT32" fc="SP" name="setVal"/>
    <DA bType="INT32" fc="SE" name="setVal"/>
    <DA bType="INT32" fc="CF" name="minVal"/>
    <DA bType="INT32" fc="CF" name="maxVal"/>
    <DA bType="INT32U" fc="CF" name="stepSize"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DOType cdc="BSC" id="BSC_0">
    <DA bType="Struct" fc="ST" name="valWTr" type="ValWithTrans"/>
    <DA bType="Quality" fc="ST" name="q" qchg="true"/>
    <DA bType="Timestamp" fc="ST" name="t"/>
    <DA bType="BOOLEAN" dchg="true" fc="CF" name="persistent"/>
    <DA bType="Enum" fc="CF" name="ctlModel" type="ctlModel"/>
    <DA bType="VisString255" fc="DC" name="d"/>
</DOType>
<DAType id="ENCSelectWithValue">
    <BDA bType="Enum" name="ctlVal" type="tempEnum"/>
    <BDA bType="Timestamp" name="operTm"/>
    <BDA bType="Struct" name="origin" type="Originator"/>
    <BDA bType="INT8U" name="ctlNum"/>
    <BDA bType="Timestamp" name="T"/>
    <BDA bType="BOOLEAN" name="Test"/>
    <BDA bType="Check" name="Check"/>
</DAType>
<DAType id="Originator">
    <BDA bType="Enum" name="orCat" type="orCat"/>
    <BDA bType="Octet64" name="orIdent"/>
</DAType>
<DAType id="Unit">
    <BDA bType="Enum" name="SIUnit" type="SIUnit"/>
    <BDA bType="Enum" name="multiplier" type="multiplier"/>
</DAType>
<DAType id="DPCSelectWithValue">
    <BDA bType="BOOLEAN" name="ctlVal"/>
    <BDA bType="Timestamp" name="operTm"/>
    <BDA bType="Struct" name="origin" type="Originator"/>
    <BDA bType="INT8U" name="ctlNum"/>
    <BDA bType="Timestamp" name="T"/>
    <BDA bType="BOOLEAN" name="Test"/>
    <BDA bType="Check" name="Check"/>
</DAType>
<DAType id="DPCOperate">
    <BDA bType="BOOLEAN" name="ctlVal"/>
    <BDA bType="Timestamp" name="operTm"/>

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    <BDA bType="Struct" name="origin" type="Originator"/>
    <BDA bType="INT8U" name="ctlNum"/>
    <BDA bType="Timestamp" name="T"/>
    <BDA bType="BOOLEAN" name="Test"/>
    <BDA bType="Check" name="Check"/>
  </DAType>
  <DAType id="DPCCancel">
    <BDA bType="BOOLEAN" name="ctlVal"/>
    <BDA bType="Timestamp" name="operTm"/>
    <BDA bType="Struct" name="origin" type="Originator"/>
    <BDA bType="INT8U" name="ctlNum"/>
    <BDA bType="Timestamp" name="T"/>
    <BDA bType="BOOLEAN" name="Test"/>
  </DAType>
  <DAType id="Vector">
    <BDA bType="Struct" name="mag" type="AnalogueValue"/>
    <BDA bType="Struct" name="ang" type="AnalogueValue"/>
  </DAType>
  <DAType id="AnalogueValue">
    <BDA bType="INT32" name="i"/>
    <BDA bType="FLOAT32" name="f"/>
  </DAType>
  <DAType id="RangeConfig">
    <BDA bType="Struct" name="hhLim" type="AnalogueValue"/>
    <BDA bType="Struct" name="hLim" type="AnalogueValue"/>
    <BDA bType="Struct" name="lLim" type="AnalogueValue"/>
    <BDA bType="Struct" name="llLim" type="AnalogueValue"/>
    <BDA bType="Struct" name="min" type="AnalogueValue"/>
    <BDA bType="Struct" name="max" type="AnalogueValue"/>
  </DAType>
  <DAType id="ScaledValueConfig">
    <BDA bType="FLOAT32" name="scaleFactor"/>
    <BDA bType="FLOAT32" name="offset"/>
  </DAType>
  <DAType id="ValWithTrans">
    <BDA bType="INT8" name="posVal"/>
    <BDA bType="BOOLEAN" name="transInd"/>
  </DAType>
  <EnumType id="Beh">
    <EnumVal ord="1">on</EnumVal>
    <EnumVal ord="2">blocked</EnumVal>
    <EnumVal ord="3">test</EnumVal>
    <EnumVal ord="4">test/blocked</EnumVal>
    <EnumVal ord="5">off</EnumVal>
  </EnumType>
  <EnumType id="Health">
    <EnumVal ord="1">Ok</EnumVal>
    <EnumVal ord="2">Warning</EnumVal>
    <EnumVal ord="3">Alarm</EnumVal>
  </EnumType>
  <EnumType id="Mod">
    <EnumVal ord="1">on</EnumVal>
    <EnumVal ord="2">blocked</EnumVal>
    <EnumVal ord="3">test</EnumVal>

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    <EnumVal ord="4">test/blocked</EnumVal>
    <EnumVal ord="5">off</EnumVal>
  </EnumType>
  <EnumType id="tempEnum">
    <EnumVal ord="0">e1</EnumVal>
    <EnumVal ord="1">e2</EnumVal>
    <EnumVal ord="2">e3</EnumVal>
    <EnumVal ord="3">e4</EnumVal>
    <EnumVal ord="4">e5</EnumVal>
  </EnumType>
  <EnumType id="orCat">
    <EnumVal ord="0">not-supported</EnumVal>
    <EnumVal ord="1">bay-control</EnumVal>
    <EnumVal ord="2">station-control</EnumVal>
    <EnumVal ord="3">remote-control</EnumVal>
    <EnumVal ord="4">automatic-bay</EnumVal>
    <EnumVal ord="5">automatic-station</EnumVal>
    <EnumVal ord="6">automatic-remote</EnumVal>
    <EnumVal ord="7">maintenance</EnumVal>
    <EnumVal ord="8">process</EnumVal>
  </EnumType>
  <EnumType id="ctlModel">
    <EnumVal ord="0">status-only</EnumVal>
    <EnumVal ord="1">direct-with-normal-security</EnumVal>
    <EnumVal ord="2">sbo-with-normal-security</EnumVal>
    <EnumVal ord="3">direct-with-enhanced-security</EnumVal>
    <EnumVal ord="4">sbo-with-enhanced-security</EnumVal>
  </EnumType>
  <EnumType id="sboClass">
    <EnumVal ord="0">operate-once</EnumVal>
    <EnumVal ord="1">operate-many</EnumVal>
  </EnumType>
  <EnumType id="SIUnit">
    <EnumVal ord="1">none</EnumVal>
    <EnumVal ord="2">m</EnumVal>
    <EnumVal ord="3">kg</EnumVal>
    <EnumVal ord="4">s</EnumVal>
    <EnumVal ord="5">A</EnumVal>
    <EnumVal ord="6">K</EnumVal>
    <EnumVal ord="7">mol</EnumVal>
    <EnumVal ord="8">cd</EnumVal>
    <EnumVal ord="9">deg</EnumVal>
    <EnumVal ord="10">rad</EnumVal>
    <EnumVal ord="11">sr</EnumVal>
    <EnumVal ord="21">Gy</EnumVal>
    <EnumVal ord="22">q</EnumVal>
    <EnumVal ord="23">°C</EnumVal>
    <EnumVal ord="24">Sv</EnumVal>
    <EnumVal ord="25">F</EnumVal>
    <EnumVal ord="26">C</EnumVal>
    <EnumVal ord="27">S</EnumVal>
    <EnumVal ord="28">H</EnumVal>
    <EnumVal ord="29">V</EnumVal>
    <EnumVal ord="30">ohm</EnumVal>
  </EnumType>

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<EnumVal ord="31">J</EnumVal>
<EnumVal ord="32">N</EnumVal>
<EnumVal ord="33">Hz</EnumVal>
<EnumVal ord="34">lx</EnumVal>
<EnumVal ord="35">Lm</EnumVal>
<EnumVal ord="36">Wb</EnumVal>
<EnumVal ord="37">T</EnumVal>
<EnumVal ord="38">W</EnumVal>
<EnumVal ord="39">Pa</EnumVal>
<EnumVal ord="41">m2</EnumVal>
<EnumVal ord="42">m3</EnumVal>
<EnumVal ord="43">m/s</EnumVal>
<EnumVal ord="44">m/s2</EnumVal>
<EnumVal ord="45">m3/s</EnumVal>
<EnumVal ord="46">m/m3</EnumVal>
<EnumVal ord="47">M</EnumVal>
<EnumVal ord="48">kg/m3</EnumVal>
<EnumVal ord="49">m2/s</EnumVal>
<EnumVal ord="50">W/m K</EnumVal>
<EnumVal ord="51">J/K</EnumVal>
<EnumVal ord="52">ppm</EnumVal>
<EnumVal ord="53">1/s</EnumVal>
<EnumVal ord="54">rad/s</EnumVal>
<EnumVal ord="61">VA</EnumVal>
<EnumVal ord="62">Watts</EnumVal>
<EnumVal ord="63">VAr</EnumVal>
<EnumVal ord="64">theta</EnumVal>
<EnumVal ord="65">cos(theta)</EnumVal>
<EnumVal ord="66">Vs</EnumVal>
<EnumVal ord="67">V2</EnumVal>
<EnumVal ord="68">As</EnumVal>
<EnumVal ord="69">A2</EnumVal>
<EnumVal ord="70">A2t</EnumVal>
<EnumVal ord="71">VAh</EnumVal>
<EnumVal ord="72">Wh</EnumVal>
<EnumVal ord="73">VArh</EnumVal>
<EnumVal ord="74">V/Hz</EnumVal>
</EnumType>
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  <EnumVal ord="-21">Zepto</EnumVal>
  <EnumVal ord="-18">Atto</EnumVal>
  <EnumVal ord="-15">Femto</EnumVal>
  <EnumVal ord="-12">Pico</EnumVal>
  <EnumVal ord="-9">Nano</EnumVal>
  <EnumVal ord="-6">Micro</EnumVal>
  <EnumVal ord="-3">Milli</EnumVal>
  <EnumVal ord="-2">Centi</EnumVal>
  <EnumVal ord="-1">Deci</EnumVal>
  <EnumVal ord="0">zeroNoValue</EnumVal>
  <EnumVal ord="1">Deca</EnumVal>
  <EnumVal ord="2">Hecto</EnumVal>
  <EnumVal ord="3">Kilo</EnumVal>
  <EnumVal ord="6">Mega</EnumVal>

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    <EnumVal ord="9">Giga</EnumVal>
    <EnumVal ord="12">Tera</EnumVal>
    <EnumVal ord="15">Petra</EnumVal>
    <EnumVal ord="18">Exa</EnumVal>
    <EnumVal ord="21">Zetta</EnumVal>
    <EnumVal ord="24">Yotta</EnumVal>
</EnumType>
<EnumType id="cmdQual">
    <EnumVal ord="0">pulse</EnumVal>
    <EnumVal ord="1">persistent</EnumVal>
</EnumType>
<EnumType id="range">
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    <EnumVal ord="1">high</EnumVal>
    <EnumVal ord="2">low</EnumVal>
    <EnumVal ord="3">high-high</EnumVal>
    <EnumVal ord="4">low-low</EnumVal>
</EnumType>
<EnumType id="angRefCMV">
    <EnumVal ord="0">V</EnumVal>
    <EnumVal ord="1">A</EnumVal>
    <EnumVal ord="2">other</EnumVal>
</EnumType>
<EnumType id="angRefWYE">
    <EnumVal ord="0">Va</EnumVal>
    <EnumVal ord="1">Vb</EnumVal>
    <EnumVal ord="2">Vc</EnumVal>
    <EnumVal ord="3">Aa</EnumVal>
    <EnumVal ord="4">Ab</EnumVal>
    <EnumVal ord="5">Ac</EnumVal>
    <EnumVal ord="6">Vab</EnumVal>
    <EnumVal ord="7">Vbc</EnumVal>
    <EnumVal ord="8">Vca</EnumVal>
    <EnumVal ord="9">Vother</EnumVal>
    <EnumVal ord="10">Aother</EnumVal>
</EnumType>
<EnumType id="dirGeneral">
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    <EnumVal ord="1">forward</EnumVal>
    <EnumVal ord="2">backward</EnumVal>
    <EnumVal ord="3">both</EnumVal>
</EnumType>
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    <EnumVal ord="1">forward</EnumVal>
    <EnumVal ord="2">backward</EnumVal>
</EnumType>
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