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<?xml version="1.0" encoding="UTF-8" ?>
- <SCL xmlns="http://www.iec.ch/61850/2006/SCL"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.iec.ch/61850/2006/SCL SCL.xsd">
- <Header id="1">
  <Text>DataTemplate de la parte hidráulica del regulador de
  velocidad</Text>
- <History>
  <Hitem when="22/10/2010" revision="1" version="1.0">Empezé a
  construir este ICD a partir del ICD del regulador de
  velocidad.</Hitem>
</History>
</Header>
- <Communication>
- <SubNetwork name="SN1">
- <ConnectedAP iedName="IED_MAIN_TNK" apName="AP1">
- <Address>
  <P type="IP">192.168.10.1</P>
  <P type="IP-SUBNET">0.0.0.0</P>
  <P type="IP-GATEWAY">0.0.0.0</P>
</Address>
</ConnectedAP>
</SubNetwork>
</Communication>
- <IED name="IEDsensRot" configVersion="1" desc="IED sensor de rotación"
  manufacturer="David">
- <Services>
  <DynAssociation />
  <GetDataObjectDefinition />
  <DataObjectDirectory />
  <GetDataSetValue />
  <DataSetSetValue />
  <DataSetDirectory />
  <ConfDataSet max="50" maxAttributes="250" />
  <GetDirectory />
  <ReadWrite />
  <ConfReportControl max="7" />
  <GetCBValues />
  <ReportSettings intgPd="Dyn" trgOps="Dyn" bufTime="Dyn" optFields="Dyn"
    rptID="Dyn" datSet="Fix" cbName="Fix" />
  <GSESettings appID="Fix" cbName="Fix" dataLabel="Dyn" datSet="Fix" />
  <GOOSE max="5" />
  <FileHandling />
  <ConfLNs fixLnInst="true" fixPrefix="true" />
</Services>
- <AccessPoint name="AP1">
- <Server>
  <Authentication />
- <LDevice inst="1" lName="LD1" desc="L\imites de los valores
  t\ípicos de ajuste">
  <LN0 lnType="LLN0_1" inst="" lnClass="LLN0" />
  <LN inst="1" lnType="FLIM_typical" lnClass="FLIM" prefix="Spd_"
    desc="L\ímite de la velocidad" />

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<LN inst="1" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
<LN inst="2" InType="FLIM_tipical" InClass="FLIM" prefix="Spd_"
  desc="L\imite de la velocidad" />
<LN inst="2" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
<LN inst="3" InType="FLIM_tipical" InClass="FLIM" prefix="Spd_"
  desc="L\imite de la velocidad" />
<LN inst="3" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
<LN inst="4" InType="FLIM_tipical" InClass="FLIM" prefix="Spd_"
  desc="L\imite de la velocidad" />
<LN inst="4" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
<LN inst="5" InType="FLIM_tipical" InClass="FLIM" prefix="Spd_"
  desc="L\imite de la velocidad" />
<LN inst="5" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
<LN inst="6" InType="FLIM_tipical" InClass="FLIM" prefix="Spd_"
  desc="L\imite de la velocidad" />
<LN inst="6" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
<LN inst="7" InType="FLIM_tipical" InClass="FLIM" prefix="Spd_"
  desc="L\imite de la velocidad" />
<LN inst="7" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
<LN inst="8" InType="FLIM_tipical" InClass="FLIM" prefix="Spd_"
  desc="L\imite de la velocidad" />
<LN inst="8" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
<LN inst="9" InType="FLIM_tipical" InClass="FLIM" prefix="Spd_"
  desc="L\imite de la velocidad" />
<LN inst="9" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
<LN inst="10" InType="FLIM_tipical" InClass="FLIM" prefix="Spd_"
  desc="L\imite de la velocidad" />
<LN inst="10" InType="FSPT_1" InClass="FSPT" prefix="Spd_"
  desc="Punto configurable de la velocidad" />
</LDevice>
- <LDevice inst="2" IdName="LD2" desc="L\limites de valores de
ajuste">
  <LN0 InType="LLN0_1" inst="" InClass="LLN0" />
  <LN InType="HSPD_1" inst="1" InClass="HSPD" prefix="Spd_"
    desc="Speed monitoring" />
  <LN InType="TRTN_1" inst="1" InClass="TRTN" prefix="Spd_"
    desc="Tacometer" />
</LDevice>
</Server>
</AccessPoint>
</IED>
- <DataTypeTemplates>
- <LNNodeType id="LLN0_1" InClass="LLN0">
  <!-- Common logical node information -->

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    <DO name="Mod" type="Mod_1" />
    <DO name="Beh" type="Beh_1" />
    <DO name="Health" type="Health_1" />
    <DO name="NamPlt" type="NamPlt_1" />
  </LNodeType>
- <LNodeType id="FLIM_typical" InClass="FLIM" desc="Limits of typical values">
  <!-- Common logical node information -->
  <DO name="Mod" type="Mod_1" />
  <DO name="Beh" type="Beh_1" />
  <DO name="Health" type="Health_1" />
  <DO name="NamPlt" type="NamPlt_1" />
  <!-- Status information -->
  <DO type="HiLim_typical" name="HiLim" desc="High limit reached (input
    signal above limit)" />
  <DO type="LoLim_typical" name="LoLim" desc="Low limit reached (input
    signal below limit)" />
  <!-- Measured values -->
  <DO type="Out_typical" name="Out" desc="Output signal" />
  <!-- Settings -->
  <DO type="HiLimSpt_typical" name="HiLimSpt" desc="High limit set
    point" />
  <DO type="LoLimSpt_typical" name="LoLimSpt" desc="Minimum limit set
    point" />
  </LNodeType>
- <LNodeType id="FSPT_1" InClass="FSPT" desc="Set point control function">
  <!-- Common logical node information -->
  <DO name="Mod" type="Mod_1" />
  <DO name="Beh" type="Beh_1" />
  <DO name="Health" type="Health_1" />
  <DO name="NamPlt" type="NamPlt_1" />
  <!-- Measured value -->
  <DO type="SptMem_1" name="SptMem" />
  </LNodeType>
- <LNodeType id="TRTN_1" InClass="TRTN" desc="Tacometer">
  <!-- Common logical node information -->
  <DO name="Mod" type="Mod_1" />
  <DO name="Beh" type="Beh_1" />
  <DO name="Health" type="Health_1" />
  <DO name="NamPlt" type="NamPlt_1" />
  <DO type="SmpRteRng_1" name="SmpRteRng" />
  <!-- Measured values -->
  <DO type="Spd_1" name="Hz" />
  <!-- Settings -->
  <DO type="SmpRte_1" name="SmpRte" />
  </LNodeType>
- <LNodeType id="HSPD_1" InClass="HSPD">
  <!-- Common logical node information -->
  <DO name="Mod" type="Mod_1" />
  <DO name="Beh" type="Beh_1" />
  <DO name="Health" type="Health_1" />
  <DO name="NamPlt" type="NamPlt_1" />
  <DO type="SmpRteRng_1" name="SmpRteRng" />

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    <!-- TODO: falta completar bien -->
</LNodeType>
<!-- Data Objects - IEC 61850-7-3 -->
<DOType cdc="ASG" id="HiLimSpt_typical" />
<DOType cdc="ASG" id="LoLimSpt_typical" />
<DOType cdc="ASG" id="Kp_pid" desc="Proportional gain" />
<DOType cdc="ASG" id="KI_pid" desc="Integral gain" />
<DOType cdc="ING" id="PidAlg_pid" desc="PID" />
<DOType cdc="ING" id="SmpRte_1" desc="Sampling rate setting" />
<DOType cdc="ING" id="SmpRteRng_1" desc="Available sampling rate
    range" />
<DOType cdc="INC" id="Mod_1" desc="Mode" />
<DOType cdc="INS" id="Beh_1" desc="Behaviour" />
<DOType cdc="INS" id="Health_1" desc="Health" />
<DOType cdc="LPL" id="NamPlt_1" desc="Name plate" />
<DOType cdc="MV" id="Out_typical" />
<DOType cdc="MV" id="SptMem_1" desc="Set point in memory" />
<DOType cdc="MV" id="Out_pid" desc="PID output" />
<DOType cdc="MV" id="PAct_pid" desc="Proportional action" />
<DOType cdc="MV" id="IAct_pid" desc="Integral action" />
<DOType cdc="MV" id="DAct_pid" desc="Derivative action" />
<DOType cdc="MV" id="P_pid" desc="P output" />
<DOType cdc="MV" id="I_pid" desc="I output" />
<DOType cdc="MV" id="D_pid" desc="D output" />
<DOType cdc="SPS" id="HiLim_typical" />
<DOType cdc="SPS" id="LoLim_typical" />
<DOType cdc="SAV" id="Spd_1" desc="Rotational speed (Hz)" />
</DataTypeTemplates>
</SCL>

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