

How to add more slaves in XML file and Ethercat:

Before we execute the steps, it is important to follow the below prerequisites:

1. Knowledge of basic Linux commands. Click [here](#) for the guide.
2. Basic Packages Installed. The link to the zip file containing the files is given [here](#).

Step 1: Open the XML file where you want to add more slaves. Copy everything given for the preexisting slave as shown in the picture.

```
<slave idx="0" type="generic" vid="5a65726f" pid="00029252" configPdos="true">
  <syncManager idx="0" dir="out">
  </syncManager>
  <syncManager idx="1" dir="in">
  </syncManager>
  <syncManager idx="2" dir="out">
    <pdo idx="1600">
      <pdoEntry idx="6040" subIdx="00" bitLen="16" halPin="drivecontrol" halType="bit"/>
      <pdoEntry idx="6060" subIdx="00" bitLen="8" halPin="opmode" halType="bit"/>
      <pdoEntry idx="607A" subIdx="00" bitLen="32" halPin="poscmd" halType="float" scale="1"/>
      <pdoEntry idx="6080" subIdx="00" bitLen="32" halPin="maxrpm" halType="float" scale="1"/>
    </pdo>
  </syncManager>

  <syncManager idx="3" dir="in">
    <pdo idx="1A00">
      <pdoEntry idx="603f" subIdx="00" bitLen="16" halPin="errorstatus" halType="bit"/>
      <pdoEntry idx="6041" subIdx="00" bitLen="16" halPin="drivestatus" halType="bit"/>
      <pdoEntry idx="6061" subIdx="00" bitLen="8" halPin="opmode_fb" halType="bit"/>
      <pdoEntry idx="6064" subIdx="00" bitLen="32" halPin="actpos" halType="float" scale="1"/>
      <pdoEntry idx="606C" subIdx="00" bitLen="32" halPin="actvel" halType="float" scale="1"/>
      <pdoEntry idx="6077" subIdx="00" bitLen="16" halPin="acttorque" halType="float" scale="1"/>
      <pdoEntry idx="60FD" subIdx="00" bitLen="32" halPin="digital_inputs" halType="bit"/>
      <pdoEntry idx="0000" subIdx="00" bitLen="8"/>
    </pdo>
  </syncManager>
  <dcConf assignActivate="300" sync0Cycle="*1" sync0Shift="0"/>
</slave>
```

Step 2: Paste it after </slave>. Change the slave id in slave idx field. If this is your 2nd slave, then the slave id will be 1. Check for vendor id and product id by typing `ethercat slaves -v` in your linux command terminal and replace the ids in vid and pid field respectively.

If any pdos need to be changed, do so.