

PDO MAP ..... 1  
Intro ..... 1  
ESI File ..... 1

# PDO MAP

× ESI

PDO Map

**Intro**

The screenshot shows the 'Configurator' software interface. It has a menu bar with 'Setup', 'Main', 'Address', and 'Config'. Below the menu is a toolbar with icons for Scan, ScanError, Download, Upload, Save, Load, Compare, Net 0, Topology, NetInfo, SlaveInfo, ProcessData, and SlotInfo. The main area is divided into several panels:

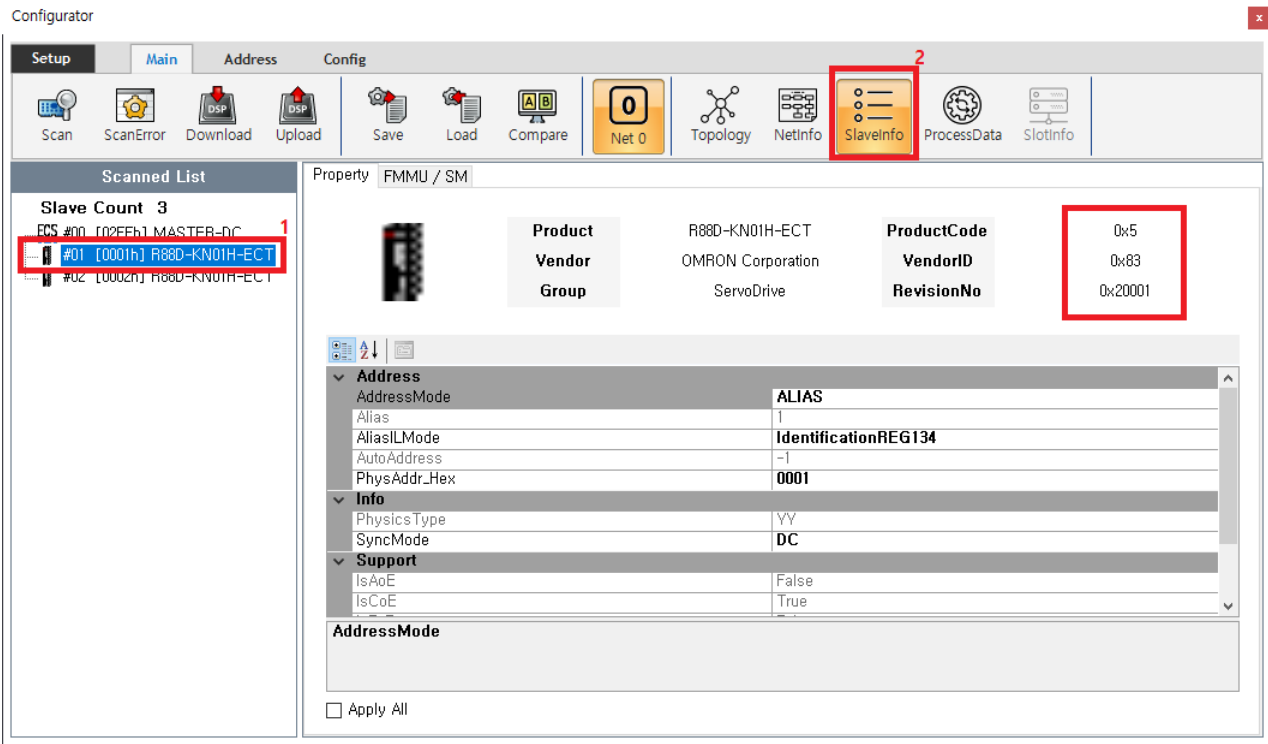
- Scanned List:** Shows 'Slave Count 3' and lists three slaves: #00 [02FFh] MASTER-DC, #01 [0001h] R88D-KN01H-ECT, and #02 [0002h] R88D-KN01H-ECT.
- SyncManager:** A table with columns SM, Size, and Type. It lists four entries: SM 0 (256, MBoxOut), SM 1 (256, MBoxIn), SM 2 (12, Outputs), and SM 3 (28, Inputs).
- PDO List:** A table with columns Index, Size, Name, and SM. It lists various PDO mappings, with '258th receive PDO Mapping' at index 0x1701 (size 12) highlighted in blue.
- PDO Assignment:** A table with columns Index, Size, Name, and Type. It lists assignments for indices 0x1600 to 0x1705. The entry for index 0x1701 is checked and highlighted in blue.
- PDO Contents (0x1701):** A table with columns Index, Size, Name, and Type. It lists contents for index 0x1701: Controlword (2, UINT), Target position (4, DINT), Touch probe function (2, UINT), and Physical outputs (4, UDINT).

At the bottom of the PDO Assignment table, there is an 'Apply All' checkbox.

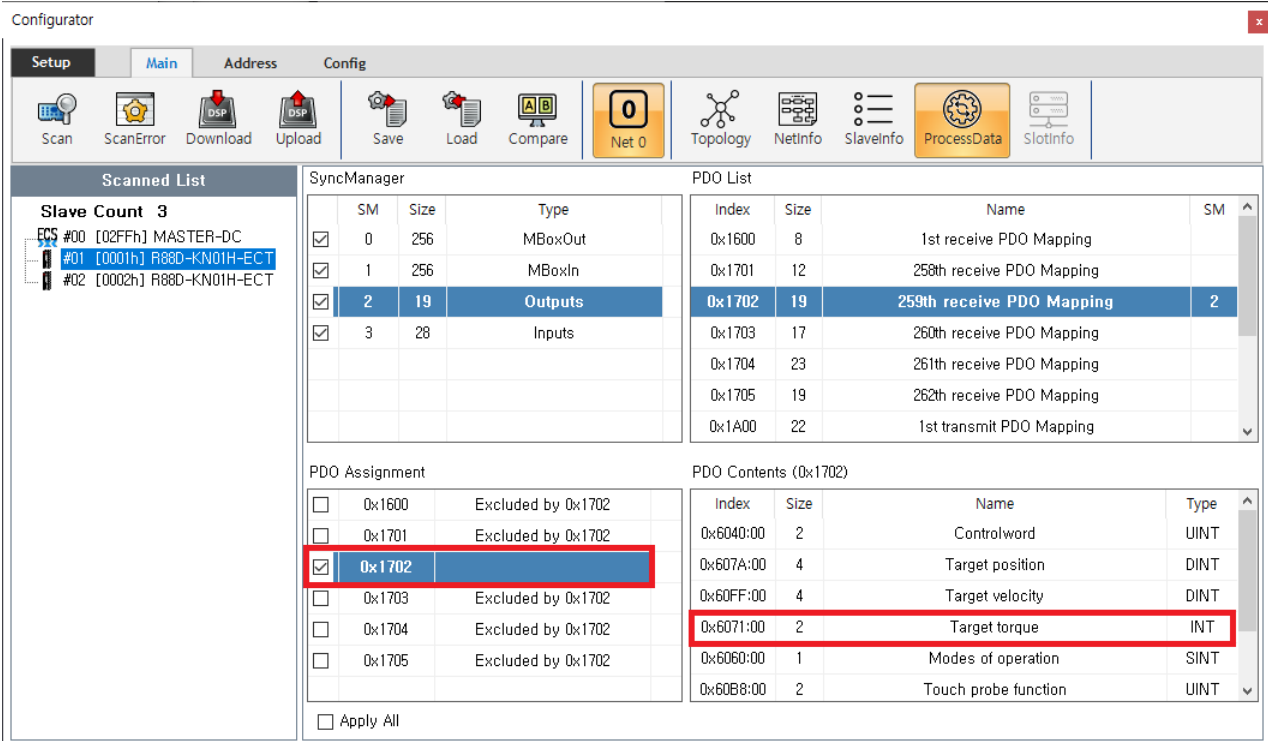
- SCAN
  - 'PDO Assignment' 가 ESI <sup>1)</sup>
- 'PDO Contents'
  - 'Current Torque' PDO Map, 'Target Torque'
- SCAN
  - esi, ESI

## ESI File

- OMRON
- Torque PDO Map



- 'SlaveInfo' ProductCode, RevisionNo



- 'ProcessData' PDO Map
- 'Target Troque' Map : 0x1702

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <EtherCATInfo Version="1.4" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLoca
3   <Vendor FileVersion="100">
4     <!--1.00:NewRelease-->
5     <Id>#x83</Id>
6     <Name LcId="1033">OMRON Corporation</Name>
7     <Name LcId="1041">オムロン 株式会社</Name>
8     <ImageData16x14>424DD6020000000000000360000002800000100000000E00000010018000000000A0020000000000
9   </Vendor>
10  <Descriptions>
11    <Groups>
12      <Group SortOrder="100">
13        <Type>ServoDrive</Type>
14        <Name LcId="1033">Servo Drives</Name>
15        <Name LcId="1041">サロボドライブ</Name>
16        <ImageData16x14>424DD60200000000000360000002800000100000000E00000010018000000000A002000
17      </Group>
18    </Groups>
19    <Devices>
20      <Device Invisible="0" Physics="YY">
8135    <Device Invisible="0" Physics="YY">
16250   <Device Invisible="0" Physics="YY">
24365   <Device Invisible="0" Physics="YY">
32480   <Device Invisible="0" Physics="YY">
32481   <Type ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</Type>
32482   <HideType ProductCode="#x00000005" RevisionNo="#x00020001">R88D-KN01H-ECT</HideType>
32483   <HideType ProductCode="#x00000005" RevisionNo="#x00020000">R88D-KN01H-ECT</HideType>
32484   <Name LcId="1033"><![CDATA[R88D-KN01H-ECT G5 Series ServoDrive/Motor]]></Name>
32485   <Name LcId="1041"><![CDATA[R88D-KN01H-ECT G5 シリズ サロボドライブ/モータ]]></Name>
32486   <Comment LcId="1033">200V/100W ServoDrive</Comment>
32487   <Comment LcId="1041">200V/100W サロボドライブ</Comment>
32488   <URL LcId="1033">http://www.ia.omron.com/</URL>
32489   <URL LcId="1041">http://www.fa.omron.co.jp/</URL>
32490   <Info>
32491     <StateMachine>
32492     <Timeout>

```

- XML Editor<sup>2)</sup> esi , ProductCode RevisionNo가

The screenshot displays the XML Editor interface for configuring a device. The XML code on the left shows the configuration for a Servo Drive (R88D-KN01H-ECT). The graphical interface on the right includes:

- SyncManager Table:**

SM	Size	Type
<input type="checkbox"/>	0	256 MBoxOut
<input checked="" type="checkbox"/>	1	256 MBoxIn
<input checked="" type="checkbox"/>	2	12 Outputs
<input checked="" type="checkbox"/>	3	28 Inputs
- PDO List Table:**

Index	Size
0x1600	8
0x1701	12
0x1702	19
0x1703	17
0x1704	23
0x1705	19
0x1A00	22
- PDO Assignment Table:**

Index	Size
<input type="checkbox"/>	0x1600 Excluded by 0x1701
<input checked="" type="checkbox"/>	0x1701
<input type="checkbox"/>	0x1702 Excluded by 0x1701
<input type="checkbox"/>	0x1703 Excluded by 0x1701
<input type="checkbox"/>	0x1704 Excluded by 0x1701
<input type="checkbox"/>	0x1705 Excluded by 0x1701

• '<RxPdo Fixed="0">'

◦ 'Sm="2"'

가

'SyncManager' Outputs

The screenshot shows an XML configuration for a servo drive. The XML includes sections for <Devices>, <Type>, <HideType>, <Name>, <Comment>, <URL>, <GroupType>, <Profile>, <Fmmu>, <Sm>, <RxPdo Fixed>, <TxPdo Fixed>, <Mailbox DataLinkLayer>, and <CoE SdoInfo>. An overlaid table provides details for the SyncManager and PDO List.

SyncManager				PDO List		
SM	Size	Type	Index	Size		
<input checked="" type="checkbox"/>	0	256	MBoxOut	0x1600	8	1st re
<input checked="" type="checkbox"/>	1	256	MBoxIn	0x1701	12	258th r
<input checked="" type="checkbox"/>	2	19	Outputs	0x1702	19	259th re
<input checked="" type="checkbox"/>	3	28	Inputs	0x1703	17	260th r
				0x1704	23	261th r
				0x1705	19	262th r
				0x1A00	22	1st tra

PDO Assignment			PDO Contents (0x1702)		
	Index	Size	Index	Size	
<input type="checkbox"/>	0x1600	Excluded by 0x1702	0x6040:00	2	
<input type="checkbox"/>	0x1701	Excluded by 0x1702	0x607A:00	4	T
<input checked="" type="checkbox"/>	0x1702		0x60FF:00	4	T
<input type="checkbox"/>	0x1703	Excluded by 0x1702	0x6071:00	2	T
<input type="checkbox"/>	0x1704	Excluded by 0x1702	0x6060:00	1	Mod
<input type="checkbox"/>	0x1705	Excluded by 0x1702	0x60B8:00	2	Touc

• 'Sm="2"'

가

가

SM	Size	Type	Index	Size	
<input checked="" type="checkbox"/>	0	256	MBoxOut	0x1600	8
<input checked="" type="checkbox"/>	1	256	MBoxIn	0x1701	12
<input checked="" type="checkbox"/>	2	12	Outputs	0x1702	19
<input checked="" type="checkbox"/>	3	28	Inputs	0x1703	17
				0x1704	23
				0x1705	19
				0x1A00	22

PDO Assignment		PDO Contents (0x1B01)	
<input type="checkbox"/>	0x1A00	Index	Size
<input checked="" type="checkbox"/>	0x1B01	0x603F:00	2
<input type="checkbox"/>	0x1B02	0x6041:00	2
<input type="checkbox"/>	0x1B03	0x6064:00	4
<input type="checkbox"/>	0x1B04	0x6077:00	2
<input type="checkbox"/>	0x1BFF	0x60F4:00	4
		0x60B9:00	2

- '<TxPdo Fixed="0">' 가 'SyncManager' Inputs
- 'Sm="3"' 가
- 
- Configurator SCAN

1)

.xml

2)

Notepad, Notepad++, Ultra Editor

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