

PDO MAP 1
Intro 1
ESI File 1

PDO MAP

× ESI

PDO Map

Intro

The screenshot shows the 'Configurator' software interface. It features a top menu bar with 'Setup', 'Main', 'Address', and 'Config' tabs. 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 workspace is divided into several panels:

- Scanned List:** Shows three slave devices: #00 [02FFh] MASTER-DC, #01 [0001h] R88D-KN01H-ECT (highlighted), and #02 [0002h] R88D-KN01H-ECT.
- SyncManager:** A table listing synchronization managers with columns for SM, Size, and Type.

SM	Size	Type	
<input checked="" 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:** A table listing PDO mappings with columns for Index, Size, Name, and SM.

Index	Size	Name	SM
0x1600	8	1st receive PDO Mapping	
0x1701	12	258th receive PDO Mapping	2
0x1702	19	259th receive PDO Mapping	
0x1703	17	260th receive PDO Mapping	
0x1704	23	261th receive PDO Mapping	
0x1705	19	262th receive PDO Mapping	
0x1A00	22	1st transmit PDO Mapping	
- PDO Assignment:** A table for assigning PDOs to SMs. The entry for SM 0x1701 is checked and highlighted with a red box.

SM	Type
<input type="checkbox"/>	0x1600
<input checked="" type="checkbox"/>	0x1701
<input type="checkbox"/>	0x1702
<input type="checkbox"/>	0x1703
<input type="checkbox"/>	0x1704
<input type="checkbox"/>	0x1705
- PDO Contents (0x1701):** A table showing the contents of the selected PDO.

Index	Size	Name	Type
0x6040:00	2	Controlword	UINT
0x607A:00	4	Target position	DINT
0x60B8:00	2	Touch probe function	UINT
0x60FE:01	4	Physical outputs	UDINT

- SCAN

'PDO Assignment' 가
ESI ¹⁾

- 'PDO Contents'

'PDO Assignment'

○
'Current Torque'

PDO Map(0x1702)

, 'Target Torque'

- SCAN

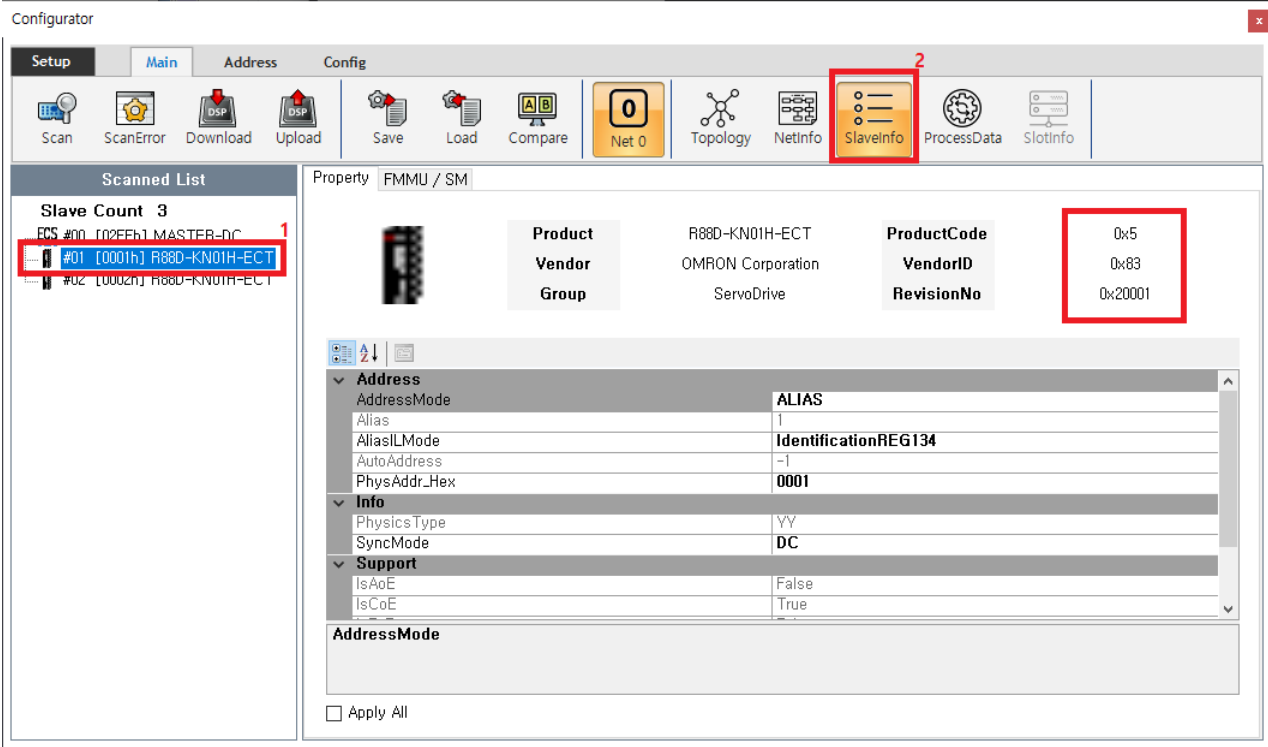
esi
ESI

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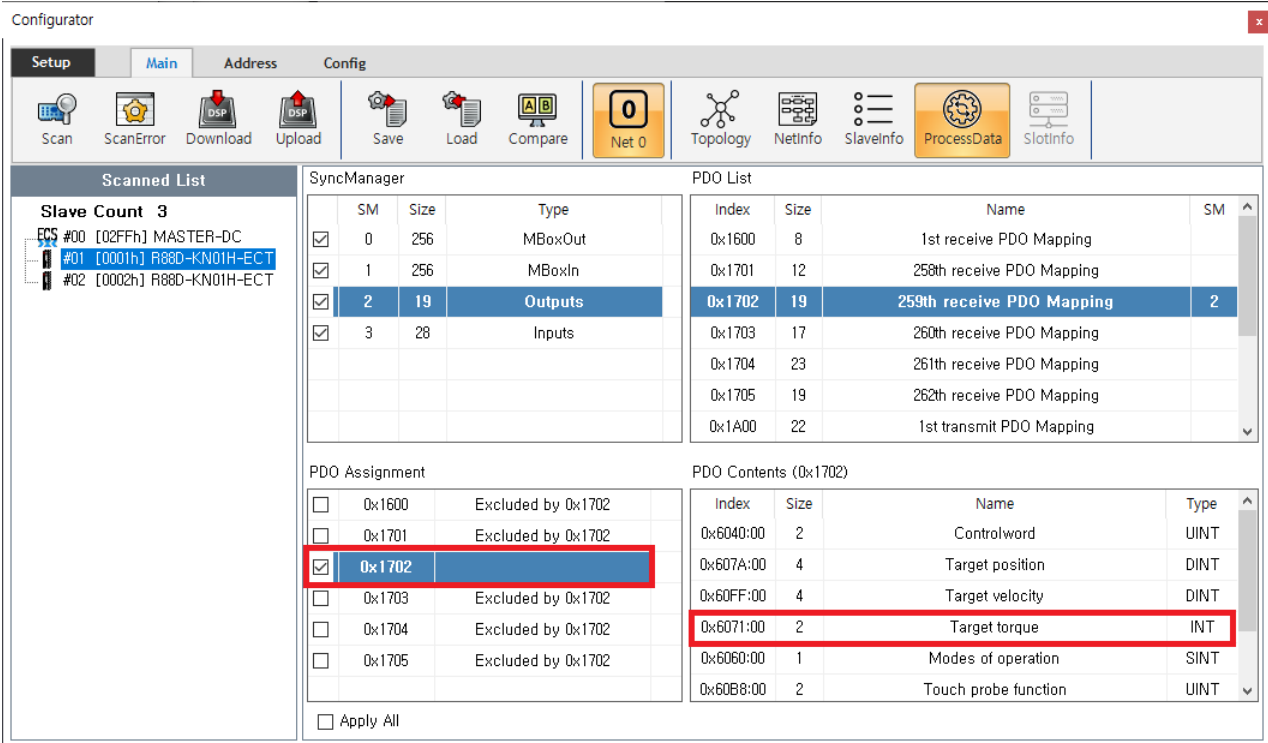
ESI File

- OMRON
- Torque

PDO Map



- 'SlaveInfo' ProductCode, RevisionNo



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

```

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 シリウス 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 Editor²⁾ 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 the following tables:

SyncManager			
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		
Index	Size	
0x1600	8	
0x1701	12	256
0x1702	19	
0x1703	17	
0x1704	23	
0x1705	19	
0x1A00	22	

PDO Assignment		
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

• '<RxDpo Fixed="0">'

'SyncManager' Outputs

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

• 'Sm="2"'

가

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

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

• 'Sm="2"' 가 , 가

The screenshot shows an XML configuration for a servo drive. The XML includes sections for device information, group type (ServoDrive), profile, and various parameters like `<Sm MinSize="40" MaxSize="256" DefaultSize="12" StartSize="12" Fixed="0" Sm="3">`. A table titled 'SyncManager' is overlaid on the XML, showing the following data:

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

Below the table, there is a 'PDO Assignment' section with a table:

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">`'
- '`Sm="3"`' 가
- Configurator SCAN

1) .xml
2)

Notepad, Notepad++, Ultra Editor

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