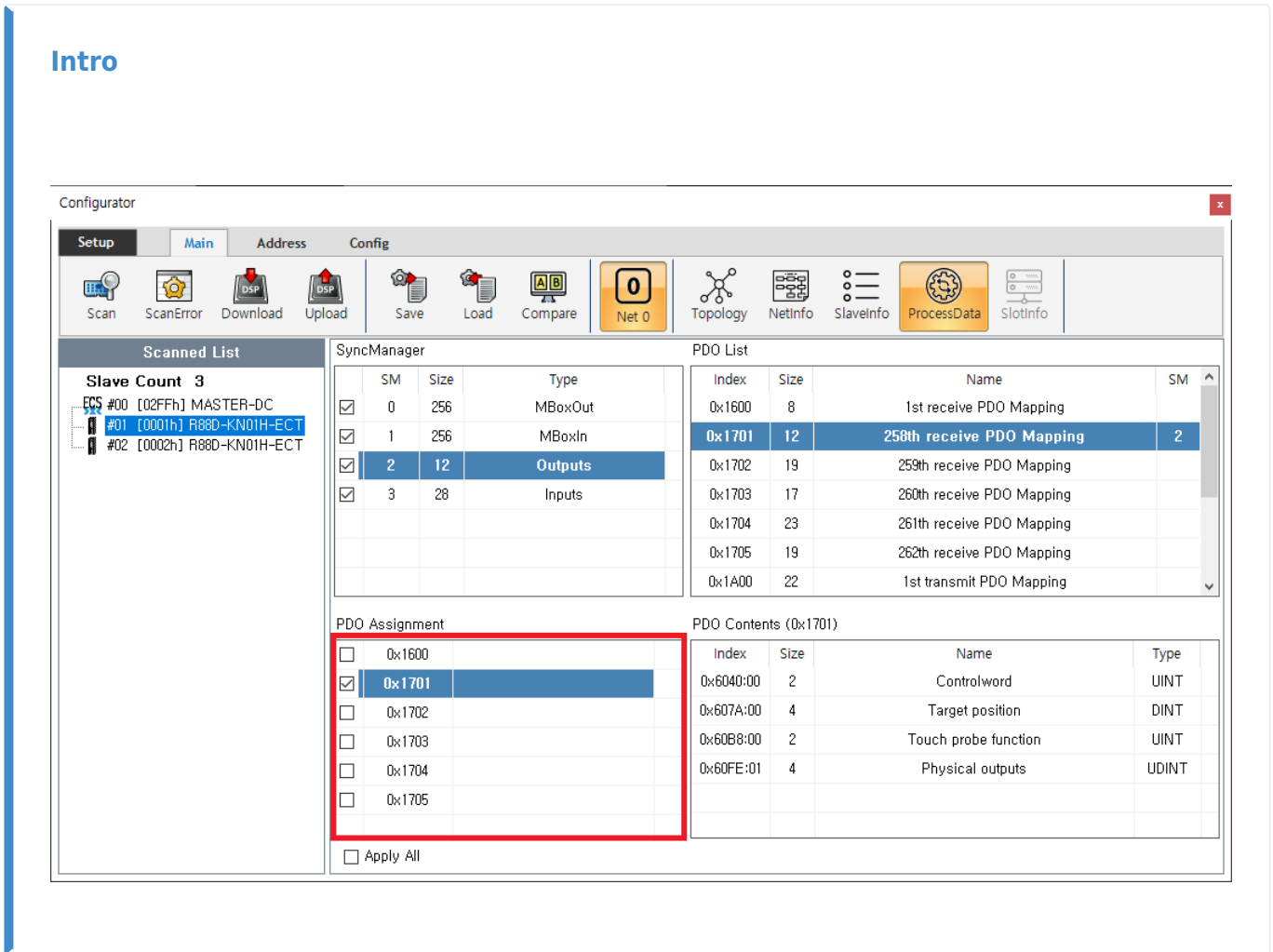


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기본 PDO MAP 변경

× ESI 파일에서 제공되는 기본 PDO Map 변경에 대한 안내 페이지입니다.



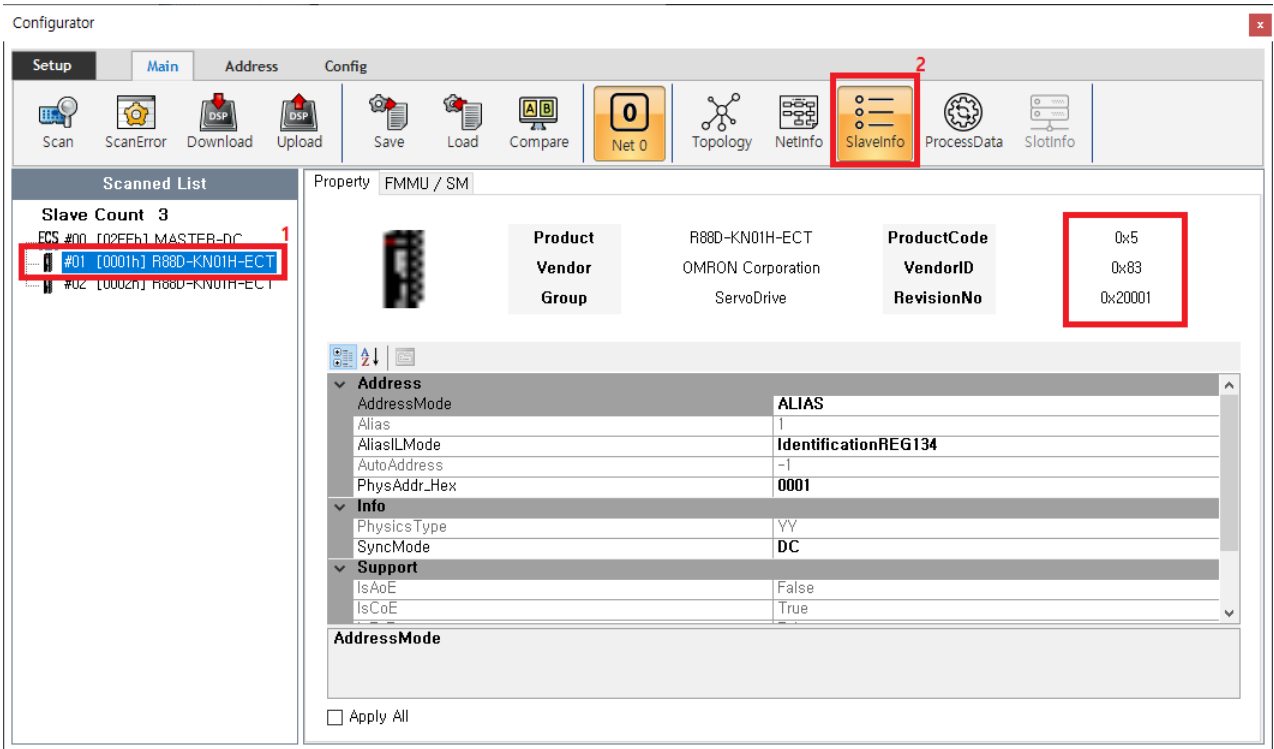
- SCAN을 진행하게 되면 각 슬레이브별로 'PDO Assignment' 가 자동으로 선택됩니다.
 - 자동으로 선택되는 항목은 슬레이브의 ESI 파일¹⁾에 지정되어 있습니다.
- 'PDO Contents' 항목에 원하는 항목이 없는 경우 슬레이브 별로 'PDO Assignment'를 변경해야 합니다.
 - 보통 토크제어를 하거나 현재 토크를 확인해야 하는 경우, 'Target Torque' 또는 'Current Torque' 항목이 포함된 PDO Map(0x1702)으로 변경합니다.
- 변경 후에도 SCAN을 다시 진행하면 esi 파일의 값을 읽기 때문에, 값은 초기화됩니다.
 - 기본값을 변경하기 위해서는 ESI 파일을 수정해야 합니다.

ESI File 수정

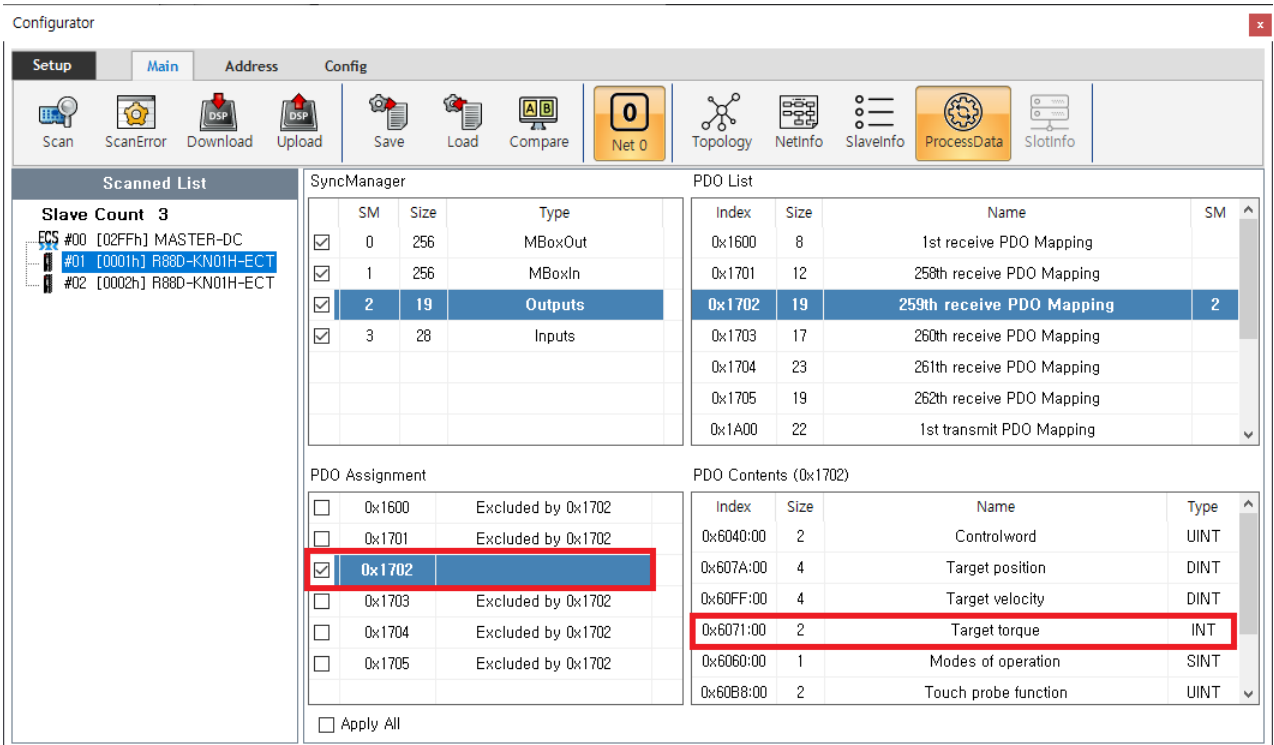
예시 환경은 다음과 같습니다.

- OMRON 드라이버 사용,

• Torque 제어 및 확인을 위해 PDO Map 변경



• 'SlaveInfo' 탭에서 ProductCode, RevisionNo를 확인합니다.



- 'ProcessData' 탭에서 변경해야할 PDO Map을 확인합니다.
 - 예시의 경우 'Target Troque' 항목이 있는 Map 확인 : **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#x03</Id>
6  <Name LcId="1033">OMRON Corporation</Name>
7  <Name LcId="1041">オムロン 株式会社</Name>
8  <ImageData16x14>424DD60200000000000003600000028000000100000000E000000010018000000000A0020000000000
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>424DD60200000000000003600000028000000100000000E000000010018000000000A002000
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="#x00010000">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 Editor²⁾를 이용해 esi 파일을 열고, ProductCode와 RevisionNo가 일치하는 노드를 찾습니다.

The screenshot displays the configuration interface for a servo drive. On the left, XML code is shown with line numbers from 19 to 40533. The main area contains several tables:

- SyncManager Table:**

SM	Size	Type
0	256	MBoxOut
1	256	MBoxIn
2	12	Outputs
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	Assignment
0x1600		Excluded by 0x1701
0x1701		Selected
0x1702		Excluded by 0x1701
0x1703		Excluded by 0x1701
0x1704		Excluded by 0x1701
0x1705		Excluded by 0x1701
- PDO Contents (0x1701) Table:**

Index	Size
0x6040:00	2
0x607A:00	4
0x60B8:00	2
0x60FE:01	4

Red annotations in the XML code include a box around `<RxDpo Fixed="1" Sm="2">` and an arrow pointing to it from the right. Other XML tags include `<RxDpo Fixed="0">`, `<RxDpo Fixed="1">`, `<TxPdo Fixed="0">`, `<TxPdo Fixed="1" Sm="3">`, and `<TxPdo Fixed="1">`.

- '<RxDpo Fixed="0">' 형식으로 표시되는 항목은 'SyncManager'의 Outputs 항목입니다.

This screenshot shows a different configuration state. The XML code on the left includes `<RxDpo Fixed="0">`, `<RxDpo Fixed="1" Sm="2">`, and several `<RxDpo Fixed="1">` tags. The PDO Assignment table on the right is updated:

- PDO Assignment Table:**

Index	Assignment
0x1600	Excluded by 0x1702
0x1701	Excluded by 0x1702
0x1702	Selected
0x1703	Excluded by 0x1702
0x1704	Excluded by 0x1702
0x1705	Excluded by 0x1702
- PDO Contents (0x1702) Table:**

Index	Size
0x6040:00	2
0x607A:00	4
0x60FF:00	4
0x6071:00	2
0x6060:00	1

Red and green arrows highlight the changes in the XML code and the PDO Assignment table, respectively.

- 'Sm="2"로 표시된 노드가 자동 선택되는 노드입니다.

The screenshot displays the CANopen configuration interface. On the left, the XML configuration code is visible, showing device parameters and PDO assignments. A red arrow points from the XML tag `<RxPdo Fixed="1" Sm="2">` to the configuration window. The configuration window is divided into several sections:

- SyncManager:** A table with columns SM, Size, and Type. SM 2 is selected and highlighted with a red box.

SM	Size	Type	
<input checked="" type="checkbox"/>	0	256	MBoxOut
<input checked="" type="checkbox"/>	1	256	MBoxIn
<input checked="" type="checkbox"/>	2	19	Outputs
<input checked="" type="checkbox"/>	3	28	Inputs
- PDO List:** A table with columns Index, Size, and Name. Index 0x1702 is selected.

Index	Size	Name
0x1600	8	1st re
0x1701	12	258th r
0x1702	19	259th re
0x1703	17	260th r
0x1704	23	261th r
0x1705	19	262th r
0x1A00	22	1st tra
- PDO Assignment:** A table with columns Index, Size, and Name. Index 0x1702 is selected.

Index	Size	Name
<input type="checkbox"/>	0x1600	Excluded by 0x1702
<input type="checkbox"/>	0x1701	Excluded by 0x1702
<input checked="" type="checkbox"/>	0x1702	
<input type="checkbox"/>	0x1703	Excluded by 0x1702
<input type="checkbox"/>	0x1704	Excluded by 0x1702
<input type="checkbox"/>	0x1705	Excluded by 0x1702
- PDO Contents (0x1702):** A table with columns Index, Size, and Name.

Index	Size	Name
0x6040:00	2	
0x607A:00	4	T
0x60FF:00	4	T
0x6071:00	2	T
0x6060:00	1	Mod
0x60B8:00	2	Touc

- 다른 노드에 'Sm="2"' 를 추가할 경우, 해당 노드가 자동 선택됩니다.

The screenshot displays the CANopen configuration interface. On the left, the XML configuration code is visible, showing device parameters and PDO assignments. A blue arrow points from the XML tag `<TxPdo Fixed="1" Sm="3">` to the configuration window. The configuration window is divided into several sections:

- SyncManager:** A table with columns SM, Size, and Type. SM 3 is selected and highlighted with a blue box.

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 with columns Index, Size, and Name. Index 0x1B01 is selected.

Index	Size	Name
0x1600	8	
0x1701	12	
0x1702	19	
0x1703	17	
0x1704	23	
0x1705	19	
0x1A00	22	
- PDO Assignment:** A table with columns Index, Size, and Name. Index 0x1B01 is selected.

Index	Size	Name
<input type="checkbox"/>	0x1A00	
<input checked="" type="checkbox"/>	0x1B01	
<input type="checkbox"/>	0x1B02	
<input type="checkbox"/>	0x1B03	
<input type="checkbox"/>	0x1B04	
<input type="checkbox"/>	0x1BFF	
- PDO Contents (0x1B01):** A table with columns Index, Size, and Name.

Index	Size	Name
0x603F:00	2	
0x6041:00	2	
0x6064:00	4	
0x6077:00	2	
0x60F4:00	4	
0x60B9:00	2	

- '<TxPdo Fixed="0">' 형식으로 표시되는 항목은 'SyncManager'의 Inputs 항목입니다.
- 'Sm="3"로 표시된 노드가 자동 선택되는 노드입니다.
- 변경 완료 후 저장합니다.
- Configurator를 재실행한 후 SCAN을 진행합니다.

1)

.xml 형태로 제공되는 슬레이브 설정 파일

2)

Notepad, Notepad++, Ultra Editor 등

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