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Info	4

# Process Data (PDO)

x Process Data

- ProcessData

The screenshot shows the 'Configurator' software interface. At the top, there are buttons for 'Scan', 'Download', 'Upload', 'Save', 'Load', and 'Close'. Below these are tabs for 'Topology', 'Net Info', 'Slave Info', and 'ProcessData' (which is highlighted with a red box). On the left, a tree view shows a hierarchy of nodes: [0200h] MASTER-DC, [0005h] MADHT1505BA1 (selected), [0006h] MADHT1505BA1, [0007h] Ezi-SERVO2 EtherCAT, [0008h] Ezi-SERVO2 EtherCAT, [0001h] MADHT1505BA1, and [0002h] MADHT1505BA1. The main area is divided into four sections: 'SyncManager', 'PDO List', 'PDO Assignment', and 'PDO Content (0x1A00)'. The 'SyncManager' table shows SM 0 (MBoxOut), SM 1 (MBoxIn), SM 2 (Outputs), and SM 3 (Inputs). The 'PDO List' table shows mappings for Receive and Transmit PDOs. The 'PDO Assignment' table has checkboxes for SMs 0x1600, 0x1601, 0x1602, and 0x1603. The 'PDO Content (0x1A00)' table lists parameters like Controlword, Modes of operation, Target torque, Target position, Max motor speed, and Touch probe function. At the bottom, there are 'Index' and 'Addr' buttons, and a checkbox labeled 'Apply AutoAddress To Servo' with a sub-checkbox 'Apply to the same product' (highlighted with an orange box).

- SyncManager "MBoxOut", "MBoxIn"
- SyncManager

1)

SyncManager

SM	Size	Type
0	256	MBoxOut
1	256	MBoxIn
2	9	Outputs
3	25	Inputs

PDO List

Index	Size	Name	SM
0x1600	9	Receive PDO mapping 1	2
0x1601	19	Receive PDO mapping 2	
0x1602	15	Receive PDO mapping 3	
0x1603	21	Receive PDO mapping 4	
0x1A00	23	Transmit PDO mapping 1	
0x1A01	25	Transmit PDO mapping 2	3
0x1A02	25	Transmit PDO mapping 3	
0x1A03	25	Transmit PDO mapping 4	

PDO Assignment

<input checked="" type="checkbox"/>	0x1600
<input type="checkbox"/>	0x1601
<input type="checkbox"/>	0x1602
<input type="checkbox"/>	0x1603

PDO Content (0x1A00)

Index	Size	Name	Type
0x6040:00	2	Controlword	UINT
0x6060:00	1	Modes of operation	SINT
0x607A:00	4	Target position	DINT
0x60B8:00	2	Touch probe function	UINT

- “Outputs” <sup>2)</sup> (Process Data)
- , 4 PDO (RxPDO)가 0x1600 PDO가
  - 0x1600 PDO Content Controlword, Modes of operation, Target position, TouchProbe function
  - , Torque , Torque
- PDO Assignment RxPDO

SyncManager

SM	Size	Type
0	256	MBoxOut
1	256	MBoxIn
2	19	Outputs
3	23	Inputs

PDO List

Index	Size	Name	SM
0x1600	9	Receive PDO mapping 1	
0x1601	19	Receive PDO mapping 2	2
0x1602	15	Receive PDO mapping 3	
0x1603	21	Receive PDO mapping 4	
0x1A00	23	Transmit PDO mapping 1	3
0x1A01	25	Transmit PDO mapping 2	
0x1A02	25	Transmit PDO mapping 3	
0x1A03	25	Transmit PDO mapping 4	

PDO Assignment

<input type="checkbox"/>	0x1600
<input checked="" type="checkbox"/>	0x1601
<input type="checkbox"/>	0x1602
<input type="checkbox"/>	0x1603

PDO Content (0x1A00)

Index	Size	Name	Type
0x6040:00	2	Controlword	UINT
0x6060:00	1	Modes of operation	SINT
0x6071:00	2	Target torque	INT
0x607A:00	4	Target position	DINT
0x6080:00	4	Max motor speed	UDINT
0x60B8:00	2	Touch probe function	UINT
0x60FF:00	4	Target velocity	DINT

- PDO 0x1601 , 0x1601 PDO Content 가
  - 0x1600 Target torque Max motor speed가 가
  - , Torque 가 가

SyncManager

SM	Size	Type
0	256	MBoxOut
1	256	MBoxIn
2	9	Outputs
3	25	Inputs

PDO List

Index	Size	Name	SM
0x1600	9	Receive PDO mapping 1	2
0x1601	19	Receive PDO mapping 2	
0x1602	15	Receive PDO mapping 3	
0x1603	21	Receive PDO mapping 4	
0x1A00	23	Transmit PDO mapping 1	
0x1A01	25	Transmit PDO mapping 2	3
0x1A02	25	Transmit PDO mapping 3	
0x1A03	25	Transmit PDO mapping 4	

PDO Assignment

<input type="checkbox"/>	0x1A00
<input checked="" type="checkbox"/>	0x1A01
<input type="checkbox"/>	0x1A02
<input type="checkbox"/>	0x1A03

PDO Content (0x1A00)

Index	Size	Name	Type
0x603F:00	2	Error code	UINT
0x6041:00	2	Statusword	UINT
0x6061:00	1	Modes of operation display	SINT
0x6064:00	4	Position actual value	DINT
0x606C:00	4	Velocity actual value	DINT
0x6077:00	2	Torque actual value	INT
0x60B9:00	2	Touch probe status	UINT

- “Inputs” <sup>3)</sup> (Process Data)
- , 4 PDO (TxPDO)가 0x1A01 PDO가
  - 0x1A01 PDO Content
  - , PDO Content Torque actual value torque
- PDO List 가 PDO List list , PDO Assignment
- “Apply to the same product” <sup>4)</sup>

**Info**

- RxPDO TxPDO xml

1) , Data

2)

Data RxPDO

3)

Data TxPDO

4)

VendorID ProductCode가

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