

Anybus X-gateway Modbus-TCP - PROFIBUS DP-V1

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Data Mapping Overview. Shows how configured transactions, control word, status word and live list are mapped from Network 2 to Network 1 in the X-gateway and vice versa.


Network 1 (PROFIBUS DP-V1)

CONFIGURATION DATA

Slot	CFG data	Designation	Data	Input words	Output words
1	0x07	Live list	4	-	-
2	0x40,0xe7	Input data	40	-	-
3	0x80,0xc4	Output data	-	5	-

SLOT DETAILS, Cyclic I/O

SLOT 1

Transaction name	Element size (bytes)	Elements	Relative address	Absolute address
Live-List	1	8	0 .. 7	0 .. 7

SLOT 2

Transaction name	Element size (bytes)	Elements	Relative address	Absolute address
readData	2	15	0 .. 29	8 .. 37
readData32	4	5	30 .. 49	38 .. 57
readData16	2	15	50 .. 79	58 .. 87

SLOT 3

Transaction name	Element size (bytes)	Elements	Relative address	Absolute address
writeData	2	5	0 .. 9	0 .. 9

PARAMETERS, DP-V1 acyclic I/O

X-gateway

Name	Element size (bytes)	Elements	Slot	Index	Relative address	Access
Status	2	1	1	0	0 .. 1	R
Control	2	1	1	1	0 .. 1	RW
Live-List	1	8	1	2	0 .. 7	R
Exceptions	1	64	1	3	0 .. 63	R
Transaction status	1	64	1	4	0 .. 63	R

T300MV2

Name	Element size (bytes)	Elements	Slot	Index	Relative address	Access
readData	2	15	1	10	0 .. 29	R
writeData	2	5	1	133	0 .. 9	R

SR869

Name	Element size (bytes)	Elements	Slot	Index	Relative address	Access
readData32	4	5	1	11	0 .. 19	R
readData16	2	15	1	12	0 .. 29	R

Network 2 (Modbus-TCP Client)

Name		IP address				Port	Protocol			
T300MV2		192.168.1.100				502	TCP			
#	Function	Encoding	Scan time	Timeout	UID	Address / Bit	Data Type	Elements	Registers	Action on no Network1 I/O
readData	3	BBEWBE	250	5000	1	11	uint16	15	15	N/A
writeData	16	BBEWBE	250	5000	1	1	uint16	5	5	Freeze

Name		IP address				Port	Protocol			
SR869		192.168.1.50				502	TCP			
#	Function	Encoding	Scan time	Timeout	UID	Address / Bit	Data Type	Elements	Registers	Action on no Network1 I/O
readData32	4	BBEWBE	250	5000	50	524	uint32	5	10	N/A
readData16	4	BBEWBE	250	5000	50	534	uint16	15	15	N/A

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Network 1 (PROFIBUS DP-V1)

CONFIGURATION DATA

Slot	CFG data	Designation	Data	
			Input words	Output words
1	0x97	Live list	4	-
2	0x40,0xe7	Input data	40	-
3	0x80,0xc4	Output data	-	5

SLOT DETAILS, Cyclic I/O

SLOT 1				
Transaction name	Element size (bytes)	Elements	Relative address	Absolute address
Live-List	1	8	0 .. 7	0 .. 7
SLOT 2				
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SLOT 3				
Transaction name	Element size (bytes)	Elements	Relative address	Absolute address
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PARAMETERS, DP-V1 acyclic I/O

X-gateway						
Name	Element size (bytes)	Elements	Slot	Index	Relative address	Access
Status	2	1	1	0	0 .. 1	R
Control	2	1	1	1	0 .. 1	RW
Live-List	1	8	1	2	0 .. 7	R
Exceptions	1	64	1	3	0 .. 63	R
Transaction status	1	64	1	4	0 .. 63	R
T300MV2						
Name	Element size (bytes)	Elements	Slot	Index	Relative address	Access
readData	2	15	1	10	0 .. 29	R
writeData	2	5	1	133	0 .. 9	R
SR869						
Name	Element size (bytes)	Elements	Slot	Index	Relative address	Access
readData32	4	5	1	11	0 .. 19	R
readData16	2	15	1	12	0 .. 29	R

Network 2 (Modbus-TCP Client)

Name		IP address				Port		Protocol		
T300MV2		192.168.1.101				502		TCP		
#	Function	Encoding	Scan time	Timeout	UID	Address / Bit	Data Type	Elements	Registers	Action on no Network1 I/O
readData	3	BBEWBE	250	5000	1	11	uint16	15	15	N/A
writeData	16	BBEWBE	250	5000	1	1	uint16	5	5	Freeze
Name		IP address				Port		Protocol		
SR869		192.168.1.51				502		TCP		
#	Function	Encoding	Scan time	Timeout	UID	Address / Bit	Data Type	Elements	Registers	Action on no Network1 I/O
readData32	4	BBEWBE	250	5000	50	524	uint32	5	10	N/A
readData16	4	BBEWBE	250	5000	50	534	uint16	15	15	N/A



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		SLOT 3		
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writeData	2	5	0 .. 9	0 .. 9

PARAMETERS, DP-V1 acyclic I/O

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Name	Element size (bytes)	Elements	Slot	Index	Relative address	Access
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Control	2	1	1	1	0 .. 1	RW
Live-List	1	8	1	2	0 .. 7	R
Exceptions	1	64	1	3	0 .. 63	R
Transaction status	1	64	1	4	0 .. 63	R
T300MV2						
Name	Element size (bytes)	Elements	Slot	Index	Relative address	Access
readData	2	15	1	10	0 .. 29	R
writeData	2	5	1	133	0 .. 9	R
SR889						
Name	Element size (bytes)	Elements	Slot	Index	Relative address	Access
readData32	4	5	1	11	0 .. 19	R
readData16	2	15	1	12	0 .. 29	R

Network 2 (Modbus-TCP Client)

Name		IP address				Port	Protocol			
T300MV2		192.168.1.102				502	TCP			
#	Function	Encoding	Scan time	Timeout	UID	Address / Bit	Data Type	Elements	Registers	Action on no Network1 I/O
readData	3	BBEWBE	250	5000	1	11	uint16	15	15	N/A
writeData	16	BBEWBE	250	5000	1	1	uint16	5	5	Freeze

Name		IP address				Port	Protocol			
SR889		192.168.1.52				502	TCP			
#	Function	Encoding	Scan time	Timeout	UID	Address / Bit	Data Type	Elements	Registers	Action on no Network1 I/O
readData32	4	BBEWBE	250	5000	50	524	uint32	5	10	N/A
readData16	4	BBEWBE	250	5000	50	534	uint16	15	15	N/A