Anybus

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

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Mapping Overview

Transaction Monitor 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)

-CONFIGU	CONFIGURATION DATA———————————————————————————————————											
Slot	CFG data	Designation	Data	Input words	Output words							
SIOL		Designation		IIIput worus	Output words							
1	0x97	Live list	4		-							
2	0x40,0xe7	Input data	40		-							
3	0x80,0xc4	Output data	-		5							

SLOT DETAILS, Cyclic I/O					
- SEOT BETAILS, GYORG IN					
			SLOT 1		
Transaction name		Element size (bytes)	Elements	Relative address	Absolute address
Live-List	1		8	07	07
			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	09	09

-PARAMETERS	PARAMETERS, DP-V1 acyclic I/O											
X-gateway												
Nam	e	Element size (b	ytes) Elem	ents SI	ot Ind	lex Relative addre	ess Access					
Status		2	1	1	0	0 1	R					
Control		2	1	1	1	0 1	RW					
Live-List		1	8	1	2	07	R					
Exceptions		1	64	1	3	0 63	R					
Transaction sta	itus	1	64	1	4	0 63	R					
			T300N	IV2								
Name		Element size (bytes)	Elements	Slot	Index	Relative address	S Access					
readData	2		15	1 1	0	0 29	R					
writeData	2		5	1 1	33	09	R					
			SR86	39								
Name		Element size (bytes)	Elements	Slot	Index	Relative addres	s Access					
readData32	4		5	1	11	0 19	R					
readData16	2		15	1	12	029	R					

Network 2 (Modbus-TCP Client)

	Name			I	P ado	Iress		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

Na	Name IP address					Port		Protocol		
SR	869			192.168.1	.50			502 TCP		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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Monitor

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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)

Γ,	CONFIGURATION DATA—										
			Da	ata							
П	Slot	CFG data	Designation		Input words		Output words				
1		0x97	Live list	4		-					
2	2	0x40,0xe7	Input data	40		-					
- 3	3	0x80,0xc4	Output data	-		5					

lement size (bytes) lement size (bytes)	SLOT 1 Elements 8 SLOT 2 Elements 15	Relative address 0 7 Relative address	Absolute address 0 7 Absolute address
	8 SLOT 2 Elements	0 7 Relative address	0 7 Absolute address
lement size (bytes)	SLOT 2 Elements	Relative address	Absolute address
lement size (bytes)	Elements		
lement size (bytes)			
	15	0 00	
		0 29	8 37
	5	30 49	38 57
	15	50 79	58 87
	SLOT 3		
lement size (bytes)	Elements	Relative address	Absolute address
	5	09	09
le	ement size (bytes)	SLOT 3 ement size (bytes) Elements	SLOT 3 ement size (bytes) Elements Relative address

			X-gat	eway			
Name	е	Element size (by	tes) Elei	nents	Slot In	dex Relative addres	s 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 sta	tus	1	64	1	4	0 63	R
			T300	MV2			
Name		Element size (bytes)	Elements	Slot	Index	Relative address	Access
readData	2		15	1	10	0 29	R
writeData	2		5	1	133	09	R
			SR	369			
Name		Element size (bytes)	Element	s Slo	t 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)

					1					
	Name			IF	addr	ess		Port		Protocol
	T300MV2		192.168.1.101				502		TCP	
#	Function	Encoding	Scan time	Timeout	UID	Address / Bit	Data Type	Elements	Registers	Action on no Network 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 addr				Port		Protocol
s	R869			192.168	1.51			502		TCP
#	Function	on Encoding	Scan time	Timeou	tUID	Address / Bit	Data Type	Elements	Register	Action on no Network1 I/O
readData3	2 4	BBEWBE	250	5000	50	524	uint32	5	10	N/A
readData1	6 4	BREWRE	250	5000	50	534	uint16	15	15	N/A

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Transaction Monitor 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)

-CONFIGU	JRATION DATA				
			Data		
Slot	CFG data	Designation	Inpu	t 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 SLOT 2 Eleme Transaction name ts Relative address Absolute address Element size (bytes) readData readData32 5 30 .. 49 38 .. 57 readData16 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-gate	way			
Nam	е	Element size (byte	es) Elen	nents	Slot Ind	ex Relative address	S 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 sta	itus	1	64	1	4	0 63	R
			T300N	/IV2			
Name		Element size (bytes)	Elements	Slot	Index	Relative address	Access
readData	2		15	1	10	029	R
writeData	2		5	1	133	09	R
			SR8	69			
Name		Element size (bytes)	Elements	s Slot	Index	Relative address	Access
readData32	4		5	1	11	0 19	R
readData16	2		15	1	12	029	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	
SR869			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

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