

Status Message Exchange Examples

Header Information

JBM Electronics Co. has developed a set of headers to provide a mechanism for bridging the different characteristics between the "frame-type" data of a polled legacy protocol and the "stream-type" data of a TCP/IP connection. The headers pass information between a customer-developed application and the Gateway. The header is stripped before the data is sent to the serial device.

We provide an expanded theory of operation, examples of header (status) processing logic and example code which can be used to as a guide when adding support for our headers to a TCP application. This code will simplify the effort necessary to support the headers. The available information on our home page is:

Headers	Headers.pdf	Smspecs.pdf
Status Message Examples	Smexex1.pdf	This document
Header Example Code	Chdrproc.pdf	Hdrst.zip

Extended Header Type 2 - Version 1

This document illustrates examples of message interchanges for the TYPE 2 headers supported by the Gateways.

1 - Solicited Status:

Status Request

0006 00 0C 00 00	01 01 01 00
L R D P P	F V L
E E A O O	O E I
N S T L L	R R N
G E A L L	M S E
T R A I	A I
H V = C C	T O S
E O O	N T
D S D D	I A
T E E	D I T
A	D U
T 1 2	S
U	R
S	E
	Q
	U
	E
	S
	T

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Status Response

0006 00 0C 00 00	01 01	16	00
L R D P P	F V	Line =	
E E A O O	O E	active	
N S T L L	R R		
G E A L L	M S	Line =	
T R A I	A I	polling	
H V = C C	T O		
E O O	N		
D S D D	I		
T E E	D I		
A	D		
T 1 2			
U			
S			

Extended Header Type 2 - Version 2

1 - Solicited Status:

Status Request

0006 00 0C 00 00					01 02 10 00				
L	R	D	P	P	F	V	L		
E	E	A	O	O	O	E	I		
N	S	T	L	L	R	R	N		
G	E	A	L	L	M	S	E		
T	R				A	I			
H	V	=	C	C	T	O	S		
	E		O	O		N	T		
	D	S	D	D	I	A			
		T	E	E	D	I	T		
		A				D	U		
		T	1	2			S		
		U							
		S							
							R		
							E		
							Q		
							U		
							E		
							S		
							T		

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Status Response

0006 00 0C 00 00					01 02		06		00	
L	R	D	P	P	F	V	Line =			
E	E	A	O	O	O	E	active			
N	S	T	L	L	R	R				
G	E	A	L	L	M	S	Line =			
T	R				A	I	polling			
H	V	=	C	C	T	O				
	E		O	O		N				
	D	S	D	D	I	A				
		T	E	E	D	I				
		A				D				
		T	1	2						
		U								
		S								

2 - Begin Polling (device x'4141):

0004 00 0C 41 41					01 02 20 00				
L	R	D	P	P	F	V	B		
E	E	A	O	O	O	E	E		
N	S	T	L	L	R	R	G		
G	E	A	L	L	M	S	I		
T	R				A	I	N		
H	V	=	C	C	T	O			
	E		O	O		N	P		
	D	S	D	D	I	O			
		T	E	E	D	I	L		
		A				D	L		
		T	1	2			I		
		U					N		
		S					G		

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If you have any questions on the headers, please contact us at the numbers below:

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Home page: www.jbmelectronics.com