

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	This document	Smexex2.pdf
Header Example Code	Chdrproc.pdf	hdtst.zip

Extended Header Type 1 - Version 1

This document illustrates examples of message interchanges for the TYPE 1 headers supported by the Gateways.

1 - Solicited Status:

Status Request

0004 00 0C	01 01 01 00
L R D E E A N S T G E A T R H V = E D S T A T U S	F V L O E I R R N M S E A I T O S N T I A D I T D U S R E Q U E S T

Status Response

0004 00 0C	01 01	16	00
L R D E E A N S T G E A T R H V = E D S T A T U S	F V O E R R M S A I T O N I D I D	Status = solicited Line = active Line = polling	

2 - Data Delivery Confirmation:

< --- ---	0004 20 0C	01 01 00 00
	L P D E O A N S T G I A T T = H I V E S T C A O N T F U S I R M A T I O N	F V O E R R M S A I T O N I D I D

3 - Unsolicited Status:

Line down, inactive

< --	0004 00 0C	01 01 00 00
	L R D E E A N S T G E A T R V = H R V = E S D T A T U S	F V O E R R M S A I T O N I D I D

Line up, inactive

< --	0004 00 0C	01 01 00 00
	L R D E E A N S T G E A T R V = H R V = E S D T A T U S	F V O E R R M S A I T O N I D I D

Line up, active

< --	0004 00 0C	01 01 06 00
	L R D E E A N S T G E A T R V = H R V = E S D T A T U S	F V O E R R M S A I T O N I D I D

Extended Header Type 1 - Version 2

1 - Solicited Status:

Status Request

0004 00 0C	01 02 10 00
L E N G T H	F O R M A T I O N
R E S T R I C T E D	V E R S I O N
D E S C R I B E R	S T A T U S
=	R E Q U E S T
A T T R I B U T E S	

----- > < -----

Status Response

0004 00 0C	01 02	16	00
L E N G T H	F O R M A T I O N	Line = active	
R E S T R I C T E D	V E R S I O N	Line = polling	
D E S C R I B E R	S T A T U S		
=	R E Q U E S T		
A T T R I B U T E S			

2 - Data Delivery Confirmation:

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

3 - Unsolicited Status:

Line down, inactive

0004 00			01 02 01 00		
OC					
L	R	D	F	V	
E	E	A	O	E	
N	S	T	R	R	
G	E	A	M	S	
T	R	=	A	I	
H	V	=	T	O	
	E		T	N	
	D	S	I		
		T	D	I	
			D	D	
		A			
		T			
		U			
		S			

Line up, inactive

0004 00			01 02 02 00		
OC					
L	R	D	F	V	
E	E	A	O	E	
N	S	T	R	R	
G	E	A	M	S	
T	R	=	A	I	
H	V	=	T	O	
	E		T	N	
	D	S	I		
		T	D	I	
			D	D	
		A			
		T			
		U			
		S			

Line up, active

0004 00			01 02 06 00		
OC					
L	R	D	F	V	
E	E	A	O	E	
N	S	T	R	R	
G	E	A	M	S	
T	R	=	A	I	
H	V	=	T	O	
	E		T	N	
	D	S	I		
		T	D	I	
			D	D	
		A			
		T			
		U			
		S			

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

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