Qbit Interface Protocol
Simple Socket Request

Asynchronous Socket Communication Parameters

IP	=	Configurable
Port	=	Configurable
Connection Timeout	=	30 Seconds
Connection Type	=	Client

Command Set Description

The Qbit software will make a client connection to the host and will send the data as outlined below. All command packets begin with STX (start of text) and end with an ETX (end of text).

Socket Request

This is the request sent to the Host application by the Qbit software.

Description	Example	Delimiter
Start-of-Text Marker (STX) A fixed byte (ASCII code 2) which marks the beginning of the packet.	<2>	
Command A fixed string which identifies the packet as a Socket request.	*SQ*	CRLF
Barcode1 An alphanumeric string which is the unique identifier for the carton	LP1234567	CRLF
Barcode2 **Barcode3** **Barcode4** **Barcode5** Alphanumeric strings which may specify additional barcodes provided by the scanner.		CRLF CRLF CRLF CRLF
Carton Length **Carton Width** **Carton Height** Alphanumeric strings which specify the dimensions of the carton, in the units specified in the Dimension Unit field. Format is 9999.99	10.30 8.60 4.10	CRLF CRLF CRLF
Dimension Unit A 2-character string that specifies the unit-of-measure for the Length, Width, and Height fields. one of: *in, cm, mm.*	in	CRLF
Carton Weight A numeric string what specifies the weight of the carton, in the units specified in the Weight Unit field. Format is 9999.99	5.70	CRLF
Weight Unit This specified the unit-of-measure for the Weight field. one of: *lb, kg*	lb	CRLF
Request Date This is the date of the Socket Request. Format is: *YYYY-MM-DD*	2017-04-12	CRLF
Request Time This is the time of the Socket Request. Format is: *HH:MM:SS*	12:34:56	CRLF
End-of-Text Marker (ETX) A fixed byte (ASCII code 3) which marks the end of the packet.	<3>	

Socket Response

This is the response sent by the shipping server when it has finished processing the ship request.

All fields must be represented, but may be blank. For example, in the case of a manifesting error, the Tracking Number field will likely be blank. The Shipping Label field may be blank, or it may contain an error label.

Description	Format	Delimiter
Start-of-Text Marker (STX) A fixed byte (ASCII code 2) which marks the beginning of the packet.	<2>	
Command A fixed string which identifies the packet as a Socket Response.	SR	CRLF
Barcode1 An alphanumeric string which is the unique identifier for the carton, and is used to pair this Socket Response to the associated Socket Request.	LP1234567	CRLF
Return Code A numeric character which specifies the status of the Socket Request. 0 = error; 1 = success	1	CRLF
Message An alphanumeric string which is a descriptive status message, usually containing error details. The QMI software may be configured to print this message as an Error Label.	Success	CRLF
Divert Lane A numeric string which specifies a lane number for sortation, 0 to 99	4	CRLF
Response Date This is the date of the Socket Response. Format is: *YYYY-MM-DD*	2017-04-12	CRLF
Response Time This is the time of the Socket Response. Format is: *HH:MM:SS*	12:34:56	CRLF
End-of-Text Marker (ETX) A fixed byte (ASCII code 3) which marks the end of the packet.	<3>	

Revision History

Date	Revision	Comments
2021-10-15	n/a	Changed to revision tracking by date.