



TCP TelNet Protocol for the Positive Response System

Security Upgrade: TCP account security has been upgraded to require identification of the member codes to MISS DIG 811 that will be maintained by each TCP account, effective immediately.

If your TCP account name does not match a code in the account, or if you have multiple codes in your TCP account, use a colon (:) in front of the account name when credentials are needed.

To begin, resolve the name RESP.MISSDIG.ORG, which could have more than one valid address. Using one of those IP addresses, connect with TCP to **port 7377**. If the connection can't be established with one address, try the next address (if there are multiples) until all the addresses have been exhausted.

In this document, < indicates a response from the server and > indicates data input by the user.

Notes

Multiple data strings can be sent in a single logon session. However, a reply must be received before the next one is sent.

Ordinarily, after the socket is connected, a <220 reply will be seen. However, there can also be one of the following in which case the server will immediately disconnect.

- <421 Service not available
- <421 Error: <MachineName> Newtin delivery system too busy
- <421 Error: <MachineName> Too many connections from same IP address

“DATA TicketNumber,MemberCode,Respondent,ResponseCode,ExplanationCode”

The arguments are separated by commas. Space characters on either side of the comma are discarded.

Components of the Data String

Self-explanatory	<i>TicketNumber</i>						
Do not use a member code that is not present on the ticket number	<i>MemberCode</i>						
This field must contain your TCP account username followed by any additional information desired; e.g. user initials. Only the first 20 characters of this string are saved.	<i>Respondent</i>						
A two to four digit code indicating the disposition of the locate request. These codes are assigned by the One Call Center (see <i>Response Codes—next page</i>)	<i>ResponseCode</i>						
Not used by MISS DIG 811 of Michigan				<i>ExplanationCode</i>			
A hyperlink to a member provided web page with additional information. It has a max. length of 255 characters and must be properly encoded according to RFC 3986.					<i>URL</i>		
An additional comment for the response. Up to 255 characters are accepted.							<i>Comment</i>

The Response Process and Reply Codes

In this document, < indicates a response from the server and > indicates data input by the user.

< 220 Response system ready
> *USER AccountUserName*
< 331 User name okay, need password.
> *PASS password*
< 230 User logged in, proceed.
- or -
< 530 Not logged in.
> *DATA Ticket,MemberCode,Respondent,ResponseCode*
- or -
> *DATA Ticket,MemberCode,Respondent,ResponseCode,ExplanationCode,URL,Comment*
< 250 OK
< 251 Duplicate response
< 252 Ticket has been cancelled
< 450 Insufficient information
< 451 Invalid ticket
< 452 Ticket has expired
< 453 Invalid member code
< 453 Cannot respond for a contract locator
< 453 Cannot respond for an excluded member
< 454 Member not on ticket
< 455 Invalid response code
< 455 Invalid response code for ticket category
< 455 Response code 008 only allowed for RXMT tickets (Michigan only)
< 455 Comments or a URL are required for the response code entered
< 456 Invalid explanation code
< 457 Respondent name under 3 bytes
(use "F L" if no middle initial)
< 457 Malformed URL
< 457 Comments required for response code NN (Virginia only)
> *QUIT*
< 221 Thank you for your responses.

ExplanationCode: Not used by MISS DIG 811 of Michigan.

Reply Codes: The replies **250**, **251**, and **252** indicate that the response was accepted. A response between **450** and **459** indicates invalid data in the packet. Any other reply code may indicate a problem at the server and the data transfer should be attempted later.

There may be other reply codes added later, but **25x** will indicate a valid response, **45x** will indicate an invalid response, and **50x** will indicate a command error or server problem.

A reply code in the **450** to **459** range usually requires corrective action before attempting to resend the information. The single exception is the **451** response for an invalid ticket. Because the tickets are taken on more than one server, there may be latency or a temporary internet connectivity error in transferring the data between the server where the ticket was created and the server where the response is being posted. These responses should be resubmitted after a delay of a few minutes.

The following reply will be sent and the socket will be disconnected if no valid response is entered within 45 seconds of logging in or submitting a previous valid response.

< 522 Session expired

The application/user shall not resend responses that fail to be accepted.

- *Any response that has been repeatedly rejected should be manually checked.*
- *Any response that has not been accepted for more than seven days should be have its status cleared so that the application no longer tries to submit it.*