

NM811 Positive Response



**Know what's below.
Call before you dig.**

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Using The Response Service

Introduction

The response service can be used to provide NM811 with multiple ticket responses with a single service call. The service is based on submitting a simple XML document to a HTTP endpoint using the standard POST HTTP verb. The HTTP response will indicate any general issues with the connection and the body of the response will be a similar XML document with result codes for each item.

HTTP

The service is accessible through an SSL-enabled URL. The URL is:

<https://geocall.nm811.org/geocall/api/app/response/bulk>

Credentials are obtained by reaching out to NM811 at membership@nm811.org

The HTTP request should include an XML request document. This document should be submitted to the URL using the HTTP POST verb. Upon success, the HTTP result will contain a response document.

The following HTTP status might be returned:

Code	Status	Description
200	OK	The document was processed. The body of the response is the result document.
400	Bad Request	The format of the request document was incorrect. This normally would be caused by a malformed XML request document.
401	Access Denied	Authentication for the request failed. Check the authentication supplied in the request document or email membership@nm811.org to verify your credentials.
500	Internal Error	There was an internal error. The document should be resubmitted.



Request and Response Document

The request document is an XML document with the following general format:

```
<locateResponses xmlns="http://schemas.progressivepartnering.com/geocall/v3/response/v1">
  <auth user="Username" password="Password" />
  <responses>
    <response>
      <ticket>25AG140604</ticket>
      <code>XXX01</code>
      <facilities>Waste Water - Sewer</facilities>
      <action>2</action>
      <comment>Comment for this action</comment>
      <result></result>
    </response>
    <response>
      <ticket>25AG140600</ticket>
      <code>XXX01</code>
      <facilities>Water</facilities>
      <action>3</action>
      <comment>Comment for this action</comment>
      <result></result>
    </response>
    <response>
      <ticket>25AG140596</ticket>
      <code>XXX01</code>
      <facilities>Gas,Pipeline</facilities>
      <action>10</action>
      <comment>Comment for this action</comment>
      <result></result>
    </response>
  </responses>
</locateResponses>
```

Special things to note about the XML format:

- XML is case sensitive
- The default namespace for the document must be specified. This will be used for version management in case the formatting of the document needs to be adjusted in the future.

The default namespace for the XML request should be:

`http://schemas.progressivepartnering.com/geocall/v3/response/v1`



Elements

The XML request and response documents are identical for simplicity. In most programming languages, this should allow the same object to be serialized to the request and de-serialized from the response. In the request document the 'result' element is optional but will be present in the response document with the result of the requested response.

Element	Description				
locateResponses	Root element for the document. Do not forget to add the default namespace to the root element. See the examples.				
auth	Authentication information element. Authentication information are given to you by NM811. This element should have two attributes: <table><tr><td>user</td><td>The user name to use for authentication.</td></tr><tr><td>password</td><td>The password for the given user.</td></tr></table> Note: in the response document, the user and password elements are intentionally blank so the response document can be safely logged without exposing credential information.	user	The user name to use for authentication.	password	The password for the given user.
user	The user name to use for authentication.				
password	The password for the given user.				
responses	Container element for the response element list.				
response	The container element for the response information.				
ticket	The ticket number for which to respond.				
code	The code responding.				
facilities	The list of facilities for the response. NM811 will provide you a facility or list of facilities for which to respond. Example: Water Example: Gas,Pipeline *Note the lack of space for Gas,Pipeline. Enter multiple facility list as provided by NM811 exactly.				
action	The ID of the Response Code as provided in the Response Codes per Ticket Type table. Example: 2				



comment	A comment for this response. This will be recorded with the response.	
result	In the request document, this element is optional and if exists it is ignored.	
	In the response document, this is the result of the requested response. The possible result values are:	
	Result	Description
	NoCode	The code specified was either not given or not a valid code.
	NoOrganization	The code specified was not attached to any organization elements within the system. This is probably a configuration issue and NM811 should be notified.
	NoTicket	The ticket was either not specified or the ticket number specified was not a valid ticket.
	InvalidAction	The action specified was not a valid action. Check to make sure that the action submitted was a valid action.
	NoResponsesFound	There were no responses found for the specified ticket, code, and facilities specified in the request. Check that all of these elements are correct or contact NM811 to troubleshoot.
	DatabaseFailure	There was a database error of some type. The request should be tried again.
	Success	The response was successful.



Response Code Definitions

ID	Name	Closing	Description
1	No Response Provided	False	<i>Automated System Response. Not an accepted response code. Documented here only for completeness.</i> UFO has not responded.
2	UFO Cleared	True	UFO has determined that no facilities are in the excavation area
3	Site Marked	True	UFO has located and marked facilities in the excavation area
4	Privately Owned Facility	True	UFO has determined that the facilities in the excavation area belong to the property owner
5	No Access/Not Marked/Call UFO	False	UFO was unable to access the excavation area and has not marked. Please contact UFO
6	Spotted Per Work Plan	True	UFO has located and marked per the Wide Area Work Plan
7	<i>DEPRECIATED</i>		
8	Not Marked/Call UFO	False	UFO did not mark. Please contact UFO
9	Bad Address/Not Marked	False	Address on ticket cannot be found; UFO has not marked
10	Site Marked/Not Whitelined	True	UFO has located and marked. Site was not pre-marked in white
11	Ticket Cancelled	True	See Comment/Remarks
12	Conference Re-Scheduled	False	A Conference Date/Time has been Rescheduled with the Project Owner. PROVIDE DATE IN COMMENTS
13	Conference Attended	True	The Scheduled Conference has been attended. PROVIDE DATE IN COMMENTS.
14	No Response Required	True	This ticket type does not require a response.

All tickets have the option for a comment to be included with the response. This is a free form field.



Response Codes per Ticket Type

		Closing Response	Bid Conference	Bid Locate	Cancelled	Damage*	Design Conference	Design Locate	Emergency Locate	Near Miss	Priority Locate	Road Maint. Locate	Road Maint. Locate - Relocate	Standard Locate	Standard Locate - Relocate	Test Locate**	Update	Warning***	Wide Area Conference	Wide Area Locate	Wide Area Locate - Reaffirm
	White Lining			Recommended				Recommended						Yes	Yes					Per Work Plan	Per Work Plan
1	No Response Provided																				
2	UFO Cleared	True		X				X	X	X	X	X	X	X	X	X					
3	Site Marked	True		X				X	X	X	X	X	X	X	X	X					
4	Privately Owned Facility	True		X				X	X	X	X	X	X	X	X	X					
5	No Access/Not Marked/Call UFO			X				X	X	X	X	X	X	X	X	X					
6	Spotted Per Work Plan	True														X				X	X
7	DEPRECIATED																				
8	Not Marked/Call UFO			X				X	X	X	X	X	X	X	X	X					
9	Bad Address/Not Marked			X				X	X	X	X	X	X	X	X	X					
10	Site Marked/Not Whitelined	True		X				X	X	X	X	X	X	X	X	X					
11	Ticket Cancelled	True			X											X					
12	Conference Re-Scheduled		X				X									X			X		
13	Conference Attended	True	X				X									X			X		
14	No Response Required	True														X	X				

***Damage** – Instead of providing positive response, UFOs are required to create emergency locate and deploy to site if excavation is deemed necessary for repairs.

****Test Locate** – Test Locate accepts all codes for integration testing.

*****Warning** – Warning tickets indicate a lack of a closing response to a ticket. Response should be documented on the original ticket number which will be listed in body of the warning ticket. See original ticket type for the available appropriate responses.