

API Reference

Cueto Event Management System | September 2018

Table of Contents

Introduction	6
Contact Info.....	6
Terms of Use	6
Basics.....	7
Obtaining API Credentials	7
Connecting to Your Site’s API.....	7
Data Types and Formats	8
Date.....	8
Decimal	8
GUID (Unique Identifier, UUID).....	8
Int (Integer)	8
String	8
True/False	8
Response Formats.....	8
Specifying Request Action.....	9
HTTP Status Codes	9
API Relay Program.....	10
Example Configuration and Calls	10
Screenshots.....	11
API Calls: General	12
version: Get API Version	12
Parameters.....	12
Response	12
Sample Call.....	12
Sample Response	12
API Calls: Access Control	13
acactivity: Get Activity/Scan Records	13
Parameters.....	13

Response.....	13
Sample Call.....	14
Sample Response	14
aclocations: Get Scanning Locations and Details.....	15
Parameters.....	15
Response.....	15
Sample Call.....	15
Sample Response	15
acresults: Get Scan Result Codes and Details	16
Parameters.....	16
Response.....	16
Sample Call.....	16
Sample Response	16
Current Values	17
acscanmodes: Get Scan Modes	17
Parameters.....	17
Response.....	18
Sample Call.....	18
Sample Response	18
Current Values	18
API Calls: Gift Cards.....	20
gcactivitytypes: Get Gift Card Activity Types	20
Parameters.....	20
Response.....	20
Sample Call.....	20
Sample Response	20
Current Values	21
gccard: Get Card Details and Activity.....	21
Parameters.....	21
Response.....	21
Sample Call.....	22
Sample Response	23

gctemplates: Get Gift Card Templates.....	23
Parameters.....	23
Response.....	24
Sample Call.....	24
Sample Response.....	24
gctypes: Get Gift Card Types.....	25
Parameters.....	25
Response.....	25
Sample Call.....	25
Sample Response.....	25
Current Values.....	26
gcuse: Use Card.....	26
Parameters.....	26
Response.....	27
Sample Call.....	27
Sample Response.....	27
API Calls: Ticketing.....	28
otsorder: Get Ticket Order.....	28
Parameters.....	28
Response.....	28
Sample Call.....	32
Sample Response.....	32
otsorders: Get Ticket Orders.....	34
Parameters.....	34
Response.....	34
Sample Call.....	34
Sample Response.....	35
otspackages: Get Ticket Packages.....	35
Parameters.....	35
Response.....	35
Sample Call.....	36
Sample Response.....	36

otstickets: Get Tickets	37
Parameters	37
Response	37
Sample Call	38
Sample Response	38
API Calls: Volunteers	40
volcommittees: Get Committees and Member Counts	40
Parameters	40
Response	40
Sample Call	40
Sample Response	40
volpayments: Get Volunteer Payments	41
Parameters	41
Response	41
Sample Call	42
Sample Response	42
volprofile: Get Volunteer Profile	42
Parameters	42
Response	42
Sample Call	45
Sample Response	46
volprofiles: Get Volunteer Profiles	48
Parameters	48
Response	48
Sample Call	48
Sample Response	48

Introduction

This guide is intended to cover the API for the Cueto Event Management Software. The API is under active development based on feedback from customers and revisions will be posted as often as possible.

Is there a new API call or tool that would help you out? Just let us know!

Contact Info

Cueto & Cueto, Inc. is the company responsible for developing, maintaining and hosting the Cueto Event Management Software. We welcome – and appreciate - your questions and feedback about the software, website and manual.

The best way to get in touch with us is through e-mail at john@cuetoems.com. You can also use our contact form:

<http://www.cuetoems.com/Contact.aspx>

If you're associated with an event, please put the name of the event in the subject of the message so the correct person gets your message. Due to our travel schedule, it may take us several days to respond.

Terms of Use

This document in its entirety is Copyright 2018 Cueto & Cueto, Inc. It may be copied or distributed, in part or in whole, by any of our customers, or agents acting on their behalf, for purposes of education and training.

This document may not be used for purposes of reverse engineering or duplication of the Cueto Event Management Software.

The most recent version can always be found at:

<http://www.cuetoems.com/Help.aspx>

Basics

This section covers some basic information, such as obtaining API credentials from Cueto & Cueto, connecting to the API for your copy of the software and data format information for your requests and our responses.

Obtaining API Credentials

Due to the sensitive nature of information that can be accessed with the API, Cueto & Cueto will only issue API credentials upon request of our primary contact at the event. You can request complete API access or access to one or more of the major modules, such as Access Control, Ticketing and Volunteers, and we'll request information on your expected request rate.

You will be given a username and access key, which must be kept private. Unauthorized distribution of API credentials or an abusive request rate will lead to the termination of API access.

You will include the username and access code as query string variables named *u* and *a*, respectively. You can see an example in the next section.

Connecting to Your Site's API

You can connect to your event's API using the following address scheme:

<https://www.cuetoems.com/EVENTNAME/api.ashx>

For instance, our demo site which is at:

https://www.cuetoems.com/cems_demo

Would have the API available at:

https://www.cuetoems.com/cems_demo/api.ashx

Finally, if you were given the username **api** and access code **385AE3A5-C3AC-4485-9E41-81B15E2E513F**, you would include them in your request like this:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F

You would then append additional parameters based on the request you're making. You can use an HTTP POST and make sure to use the HTTPS version of the URL. The CEMS server only accepts requests via TLS 1.2.

Data Types and Formats

Throughout this guide we will reference certain data types when referring to information that you send us or information that we return to you. International conventions, such as using a comma instead of a decimal point, may lead to undesired results so please use US numerical conventions.

Date

Information representing a date and/or time, with or without a time zone, in any of the various formats that the .NET date and time interpreter can understand:

<https://docs.microsoft.com/en-us/dotnet/standard/base-types/parsing-datetime>

For instance, these are all valid date formats for July 29, 1985:

- 7/29/1985
- July 29, 1985
- 19850729
- 7/29/1985 8:00 PM
- 7/29/1985 8:00 PM GMT-5

Decimal

A number with or without a decimal point, such as 19.85. Used for all currency values, which may include up to four decimal places.

GUID (Unique Identifier, UUID)

A globally unique identification number, used for your access code and identifying certain records. An example:

1267B778-F796-424D-98BA-6D32D0AAA80B

Int (Integer)

A whole number, such as 29, with no formatting or currency symbols. You may or may not include comma separators and any values after a decimal point will be ignored.

String

Text information, such as the word **document**. Length restrictions will be indicated with the value in parentheses, such as **address (50)**, for a field named **address** with a maximum length of 50 characters.

True/False

Any of various ways to represent the values true and false, including the strings “true” and “false” and numbers 1 and 0.

Response Formats

The API can send responses as XML or JSON and you can specify your response format with the **format** query string parameter. To expand the earlier sample URL with your username and access code, you would specify an XML response like this:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml

Or a JSON response like this:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=json

If you don't specify a response format, the API will default to XML.

Specifying Request Action

You tell the API which function to run using the **action** query string parameter, which we'll give you for each API call in the manual.

For instance, to get a list of all access control locations, you would use the action **aclocations**. Building on the sample URLs, you would request the access control locations in XML like this:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=aclocations

Or as JSON like this:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=json&action=aclocations

The order of query string parameters does not matter.

HTTP Status Codes

The API will return the following status codes:

200 – Successful request

400 – Missing or incorrect action parameter

403 – Missing or incorrect username or access code, insufficient access

500 – Server error; will get logged and reported, but you can let us know if you'd like

API Relay Program

The CEMS API Relay is a local HTTP server that relays API calls to the CEMS web server. It displays a list of API calls and their results, and includes extensive logging and debugging tools. It can be used:

- To assist with development, by showing you the request as it is seen by the web server and the raw response the API returns.
- To accommodate special situations where an environment may not be able to handle HTTP response codes or TLS 1.2.
- To meet security requirements prohibiting stations from having direct internet access or routing all internet access through a single point.
- To hide your API credentials from client applications (see the configuration section below).

The API Relay requires Windows with the .NET Framework v4.7 or higher installed and is available on request for customers working on an API integration. The computer running the API Relay must support TLS 1.2.

Example Configuration and Calls

You can specify the target site, port to use, logging level and the API credentials inside the appSettings section of the configuration file. We will provide a default version already set up for your site that looks like this:

```
<appSettings>
  <add key="Port" value="8011" />
  <add key="TargetSite" value="www.cuetoems.com/cems_demo" />
  <add key="Username" value="relay" />
  <add key="AccessCode" value="57724851-0945-4f19-9cd4-f92810fbad8e" />
  <add key="LoggingMode" value="full" />
</appSettings>
```

Since the API credentials are stored in the configuration file, calls sent to the API relay don't need to include them. This can be used to hide your API credentials from client applications if desired.

The API Relay can be referenced via **localhost** or the computer's IP address. For instance, you could request the version number of the API locally on port of 8011 like this:

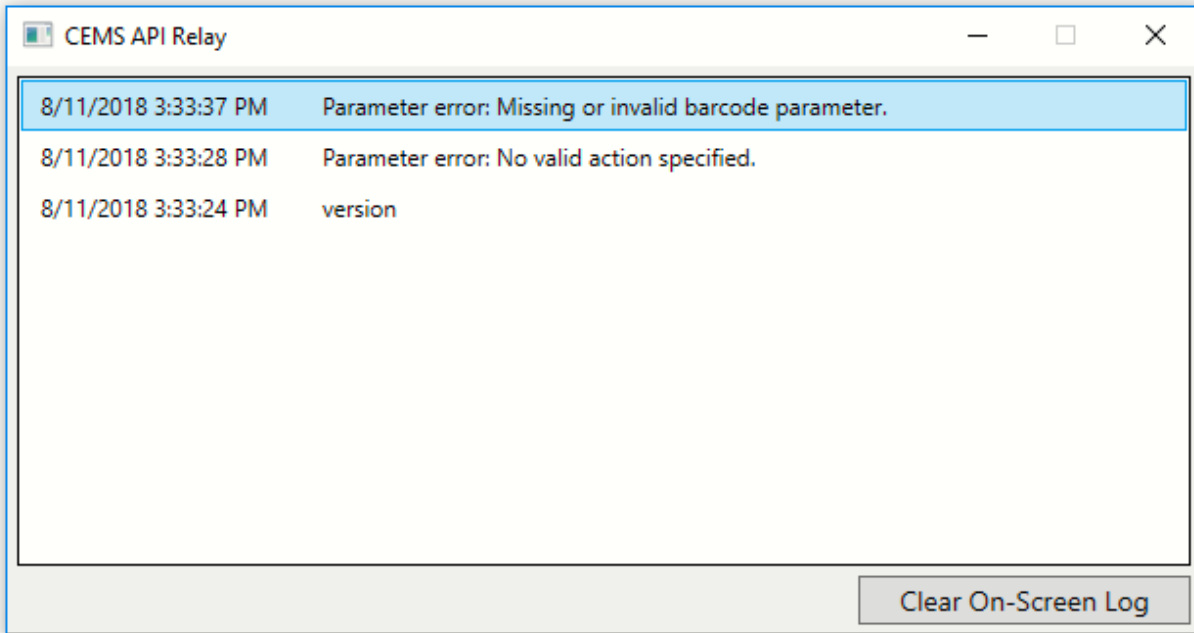
<http://localhost:8011/?action=version&format=xml>

If the computer's IP address is 192.168.1.5 and you have opened up port 8011 on your firewall, other computers could request the version number like this:

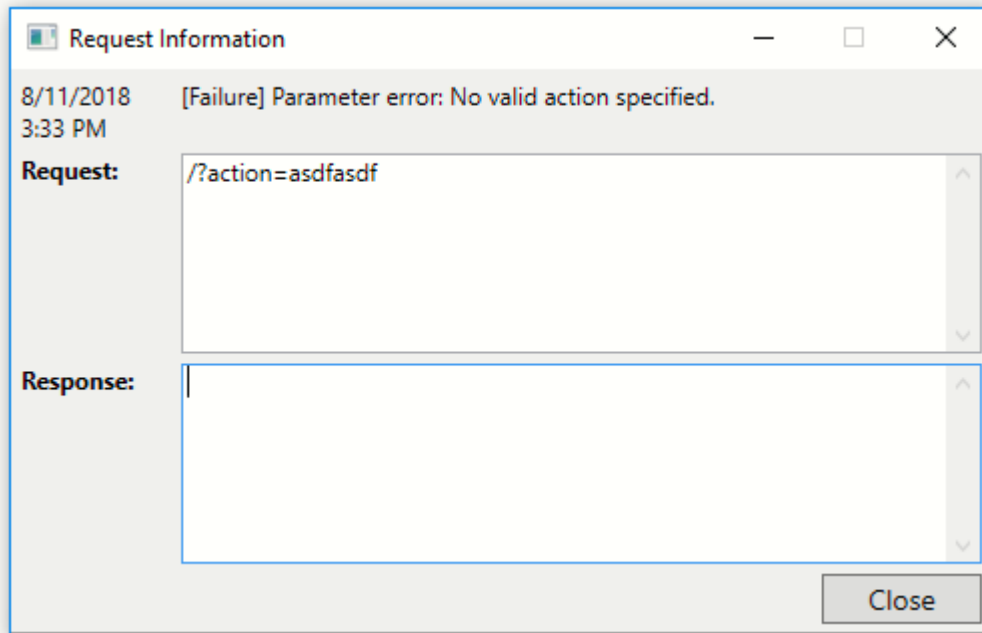
<http://192.168.1.5:8011/?action=version&format=xml>

Screenshots

While running, the API Relay shows a reverse chronological list of calls, indicating success or failure:



Double clicking on a line will show the overall status, any error messages, and the raw request and response:



API Calls: General

This section covers all API calls that aren't associated with a specific module.

version: Get API Version

The API is specific to each copy of the site and the version depends on the software version of the site. Sites for completed events eventually stop being updated. This call gives you the current API version so you know which calls are supported.

Parameters

The **action** parameter must be set to **version**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	version	Required

Response

The response will include the following values for each record:

Value	Data Type	Notes
Version	string(8)	Always returns an 8 character string in the format YYYYMMDD.

Sample Call

This API call would request the version as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=version

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Version>20180930</Version>
```

API Calls: Access Control

This section covers all API calls for the access control/gate scanning module.

acactivity: Get Activity/Scan Records

Added in Version: 20180323

This call will return a list of ID numbers, date information, barcode information, scan results and order/customer information when available, for each scan in the system that meets your filter criteria.

Parameters

The **action** parameter must be set to **acactivity** and you may specify some optional filters.

Parameter	Data Type	Possible Values	Notes
action	string	acactivity	Required
mindate	date	Any date/time format	Optional - Specifies a minimum date/time for records
maxdate	date	Any date/time format	Optional - Specifies a maximum date/time for records
location	int	Any valid location ID	Optional - You can use the aclocations call to get a list of valid IDs
hidedenies	true/false	true/1 or false/0	Optional – If not specified or invalid value, defaults to false

Response

The response will include the following values for each record:

Value	Data Type	Notes
ActivityID	int	Unique, sequential ID per scan
Date	date	Includes time and time zone
Barcode	string(20)	
LocationID	int	
LocationName	string(50)	
LocationIsEntrance	true/false	Whether the location's scans count towards total attendance
ResultCode	int	
ResultMessage	string	

If the system is able to find ticket order information for the barcode, a TicketInformation section with the following information will be added:

Value	Data Type	Notes
TicketName	string(100)	
OrderNumber	GUID	
FirstName	string(25)	The customer's first name
LastName	string(35)	The customer's last name

If the system is able to match the barcode to a credential, a CredentialInformation section with the following information will be added:

Value	Data Type	Notes
UserID	GUID	The CEMS globally unique user ID
FirstName	string(25)	The person's first name
LastName	string(35)	The person's last name
CredentialName	string(50)	The type of credential

Sample Call

This API call would request all scan records from July 29, 2016 through July 31, 2016 as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=acactivity&mindate=2016-07-29&maxdate=2016-07-31

Sample Response

```
<?xml version="1.0" encoding="utf-8"?>
<ScanRecords>
  <ScanRecord>
    <ActivityID>1</ActivityID>
    <Date>2016-07-29T12:23:30.717</Date>
    <Barcode>GOODTIX</Barcode>
    <LocationID>2</LocationID>
    <LocationName>Front Gate</LocationName>
    <LocationIsEntrance>true</LocationIsEntrance>
    <ResultCode>0</ResultCode>
    <ResultMessage>Allowed - Ticket</ResultMessage>
    <TicketInformation>
      <TicketName>Any Day Grounds</TicketName>
      <OrderNumber>61862043-5ba7-4810-80a8-8b7a0d506353</OrderNumber>
      <FirstName>SUDC</FirstName>
      <LastName>Test</LastName>
    </TicketInformation>
  </ScanRecord>
  <ScanRecord>
    <ActivityID>2</ActivityID>
```

```

<Date>2016-07-30T14:23:32.2</Date>
<Barcode>BADTIX</Barcode>
<LocationID>2</LocationID>
<LocationName>Front Gate</LocationName>
<LocationIsEntrance>>true</LocationIsEntrance>
<ResultCode>2</ResultCode>
<ResultMessage>Denied - No Barcode Match</ResultMessage>
</ScanRecord>
</ScanRecords>

```

aclocations: Get Scanning Locations and Details

Added in Version: 20180323

This call will return a list of ID numbers, names and entrance status for each location in the system. This information is also included automatically with the **acactivity** API call.

Parameters

The **action** parameter must be set to **aclocations**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	aclocations	Required

Response

The response will include the following values for each record:

Value	Data Type	Notes
LocationID	int	
Name	string(50)	
IsEntrance	true/false	Whether the location's scans count towards total attendance

Sample Call

This API call would request the list of scanning locations as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=aclocations

Sample Response

```

<?xml version="1.0" encoding="utf-8"?>
<Locations>
  <Location>
    <LocationID>1</ActivityID>
    <Name>Bus Lot</Name>
    <IsEntrance>>true</IsEntrance>
  </Location>
</Locations>

```

```

</Location>
<Location>
  <LocationID>2</ActivityID>
  <Name>Front Gate</Name>
  <IsEntrance>true</IsEntrance>
</Location>
</Locations>

```

acresults: Get Scan Result Codes and Details

Added in Version: 20180323

This call will return a list of ID numbers and text explanations of the result codes assigned to each scan. This information is also included automatically with the **acactivity** API call.

Parameters

The **action** parameter must be set to **acresults**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	acresults	Required

Response

The response will include the following values for each record:

Value	Data Type	Notes
Code	int	0 and 1 are considered success, all else are failures
Message	string	First word is always Allowed or Denied, followed by a dash and a longer explanation

Sample Call

This API call would request the list of result codes as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=acresults

Sample Response

```

<?xml version="1.0" encoding="utf-8"?>
<Results>
  <Result>
    <Code>0</Code>
    <Message>Allowed - Ticket</Message>
  </Result>
  <Result>

```



```

    <Code>7</Code>
    <Message>Denied - Wrong Day's Ticket</Message>
  </Result>
</Results>

```

Current Values

This API call will always return these results. If we add more result codes in the future, we will add on to the end and not change any existing values, and the API call and guide will be updated.

Code	Message	Notes
0	Allowed - Ticket	
1	Allowed - Credential	
2	Denied - No Barcode Match	
3	Denied - Deny	A manual deny has been set for this barcode
4	Denied -Alert	A manual alert has been set for this barcode
5	Denied - Repeat Entry	
6	Denied - Non-Entry Ticket	An item in the system but not allowed for access, such as a concessions voucher
7	Denied - Wrong Day's Ticket	
8	Denied - Insufficient Access	The ticket or credential type is not allowed in a certain area
9	Denied - Deactivated	The barcode has been deactivated by the event staff

acscanmodes: Get Scan Modes

Added in Version: 20180323

This call will return a list of ID numbers and text explanations of the scanning mode used by tickets. This information is also included automatically with the **otstickets** API call.

Parameters

The **action** parameter must be set to **acscanmodes**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	acscanmodes	Required

Response

The response will include the following values for each record:

Value	Data Type	Notes
ID	int	
Name	string	

Sample Call

This API call would request the list of result codes as XML:

```
https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=acscanmodes
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<ScanModes>
  <ScanMode>
    <ID>0</ID>
    <Name>Unlimited</Name>
  </ScanMode>
  <ScanMode>
    <ID>1</ID>
    <Name>Single Use</Name>
  </ScanMode>
</ScanModes>
```

Current Values

This API call will always return these results. If we add more scan modes in the future, we will add on to the end and not change any existing values, and the API call and guide will be updated.

ID	Name	Notes
0	Unlimited	Tickets allows any number of scans on any date
1	Single Use	Ticket allows a single scan on any date
2	Once Per Day	Ticket allows one scan every day
3	No Entry (Ever)	Ticket will be denied on scanning
4	No Entry (Wrong Day)	Forces a wrong day deny on scanning
5	Single Use (On Date)	Ticket allows one scan on the associated date

6	Unlimited (On Date)	Ticket allows any number of scans on the associated date
---	---------------------	--

API Calls: Gift Cards

This section covers all API calls for the gift and discount cards and charge accounts module.

gcactivitytypes: Get Gift Card Activity Types

Added in Version: 20180525

This call will return a list of ID numbers and text explanations of the activity types logged by the gift card system. This information is also included automatically with the **gcard** API call.

Parameters

The **action** parameter must be set to **gcactivitytypes**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	gcactivitytypes	Required

Response

The response will include the following values for each record:

Value	Data Type	Notes
ID	int	
Name	string	

Sample Call

This API call would request the list of activity types as XML:

```
https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=gcactivitytypes
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Types>
  <ActivityType>
    <ID>0</ID>
    <Name>Used</Name>
  </ActivityType>
  <ActivityType>
    <ID>1</ID>
    <Name>Changed</Name>
  </ActivityType>
  <ActivityType>
    <ID>2</ID>
    <Name>Created</Name>
  </ActivityType>
</Types>
```

Current Values

This API call will always return these results. If we add more activity types in the future, we will add on to the end and not change any existing values, and the API call and guide will be updated.

ID	Name	Notes
0	Used	Card/account used by the gcuse call
1	Changed	Card value changed through the web interface
2	Created	Card/account added or imported through the web interface

gccard: Get Card Details and Activity

Added in Version: 20180525

This call will return details and the activity history for the card with the specified barcode.

Parameters

The **action** parameter must be set to **gccard** and you must specify the **barcode** parameter.

Parameter	Data Type	Possible Values	Notes
action	string	gccard	Required
barcode	string(50)	0 – 9, a – z, A – Z	Required

Response

The response will include the following values:

Value	Data Type	Notes
CardID	GUID	The system's globally unique card ID
Barcode	string(50)	
TypeID	int	ID number of the card type
TypeName	string	Friendly name of the card type
TemplateID	int	ID number of the template
TemplateName	string(50)	Friendly name of the template
SingleUse	true/false	Can the card only be used once?
Used	true/false	Has the card been used yet?
Value	decimal	Decimal representation of the dollar value for gift cards and discount

ValueUsed	decimal	percent for discount cards. Always returns 0 for charge accounts. Decimal representation of the value used so far for gift cards and charge accounts. Always returns 0 for discount cards.
FirstName	string(25)	Optional value representing the card holder's first name
LastName	string(30)	Optional value representing the card holder's last name
Text1	string(50)	Optional value for a free text field to display on the card
Text2	string(50)	Optional value for a free text field to display on the card
Text3	string(50)	Optional value for a free text field to display on the card

If there is activity for the card, an Activity section made up of summary ActivityEntry items with the following information will be added:

Value	Data Type	Notes
ActivityID	int	
ActivityTypeID	int	ID number of the activity type
ActivityTypeName	string	Friendly name of the activity type
Date	date	
Value	decimal	Decimal representation of the value used or changed
Operator	string(50)	An optional, user-supplied field to identify who performed the activity, such as the person using a cash register
Location	string(50)	An optional, user-supplied field to identify where the activity was performed, such as the cash register number

Sample Call

This API call would request the details for the card GIFT1234 as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=gccard&barcode=GIFT1234

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<CardInformation>
  <CardID>27063296-32f8-4bd1-865c-2b1f3c32fed8</CardID>
  <Barcode>GIFT1234</Barcode>
  <TypeID>0</TypeID>
  <TypeName>Gift Card</TypeName>
  <TemplateID>2</TemplateID>
  <TemplateName>Gift - $50</TemplateName>
  <SingleUse>>false</SingleUse>
  <Used>>true</Used>
  <Value>50.0000</Value>
  <ValueUsed>5.0000</ValueUsed>
  <FirstName>Import</FirstName>
  <LastName>Test</LastName>
  <Text1/>
  <Text2/>
  <Text3/>
  <Activity>
    <ActivityEntry>
      <ActivityID>27</ActivityID>
      <ActivityTypeID>2</ActivityTypeID>
      <ActivityTypeName>Created</ActivityTypeName>
      <Date>2018-05-17T22:59:37.957</Date>
      <Value>50.0000</Value>
      <Operator>John</Operator>
      <Location>Web</Location>
    </ActivityEntry>
    <ActivityEntry>
      <ActivityID>35</ActivityID>
      <ActivityTypeID>0</ActivityTypeID>
      <ActivityTypeName>Value Used</ActivityTypeName>
      <Date>2018-05-31T11:58:10.667</Date>
      <Value>5.0000</Value>
      <Operator>2</Operator>
      <Location>POS45</Location>
    </ActivityEntry>
  </Activity>
</CardInformation>
```

gctemplates: Get Gift Card Templates

Added in Version: 20180525

This call will return a list of ID numbers and other information about the templates for gift and discount cards and charge accounts. All of the default values can be changed when generating cards, so make sure to use the **gccard** call to get the specific card's values.

Parameters

The **action** parameter must be set to **gctemplates**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	gctemplates	Required

Response

The response will include the following values for each record:

Value	Data Type	Notes
TemplateID	int	
Name	string(50)	
BarcodePrefix	string(10)	The barcode prefix to use when automatically generating barcodes. Can be overridden with various add/import methods.
BarcodeRandomCharacters	int	The number of random characters to append when automatically generating barcodes. Can be overridden with various add/import methods.
DefaultTypeID	int	The ID of the default type (gift, discount, charge) for this template, but can be changed when generating cards.
DefaultTypeName	string(50)	The name of the default type for this template, but can be changed when generating cards.
DefaultValue	decimal	The default value (gift card dollar amount or discount percent) for this template, but can be changed when generating cards.
DefaultSingleUse	true/false	Whether the card can be used one or more times for this template by default, but can be changed when generating cards.

Sample Call

This API call would request the list of templates as XML:

```
https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=gctemplates
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Templates>
```



```

<Template>
  <TemplateID>2</TemplateID>
  <Name>Gift - $50</Name>
  <BarcodePrefix>G50</BarcodePrefix>
  <BarcodeRandomCharacters>4</BarcodeRandomCharacters>
  <DefaultTypeID>0</DefaultTypeID>
  <DefaultTypeName>Gift Card</DefaultTypeName>
  <DefaultValue>50.0000</DefaultValue>
  <DefaultSingleUse>>false</DefaultSingleUse>
</Template>
</Templates>

```

gctypes: Get Gift Card Types

Added in Version: 20180525

This call will return a list of ID numbers and text explanations of the types of cards in the gift card system. This information is also included automatically with the **gccard** API call.

Parameters

The **action** parameter must be set to **gctypes**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	gctypes	Required

Response

The response will include the following values for each record:

Value	Data Type	Notes
ID	int	
Name	string	

Sample Call

This API call would request the list of card types as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=gctypes

Sample Response

```

<?xml version="1.0" encoding="UTF-8"?>
<Types>
  <Type>
    <ID>0</ID>
    <Name>Gift Card</Name>
  </Type>
  <Type>

```

```

    <ID>1</ID>
    <Name>Discount Card</Name>
  </Type>
  <Type>
    <ID>2</ID>
    <Name>Charge Account</Name>
  </Type>
</Types>

```

Current Values

This API call will always return these results. If we add more card types in the future, we will add on to the end and not change any existing values, and the API call and guide will be updated.

ID	Name	Notes
0	Gift Card	Can use the dollar amount up to the specified value; single use if specified
1	Discount Card	Can receive the specified discount value; single use if specified
2	Charge Account	Can accept unlimited transactions for any dollar amount

gcuse: Use Card

Added in Version: 20180525

This call allows you to use a card. The safety check parameter below will automatically enforce a card's single use property or maximum value and can be disabled to force a transaction through that would normally not be allowed. An activity entry will be created automatically upon a successful transaction.

Parameters

The **action** parameter must be set to **gcuse** and there are several mandatory and optional parameters.

Parameter	Data Type	Possible Values	Notes
action	string	gccard	Required
barcode	string(50)	0 – 9, a – z, A – Z	Required
value	decimal		Required for gift cards and charge accounts; ignored for discount cards
operator	string(50)		Optional
location	string(50)		Optional
safety	true/false		Optional but defaults to true if not specified

Response

A successful transaction will return the **ActivityID** value assigned to the record:

Value	Data Type	Notes
ActivityID	int	

A missing parameter or failed safety check will return an HTTP 400 status with a status description explaining the error, such as “Failed safety check: already used” and no activity entry will be created.

Sample Call

This API call would use \$5 on the gift card GIFT1234 and get a response as XML:

```
https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=gcuse&barcode=GIFT12345&value=5
```

Since no operator and location were specified those fields will be blank, but since the safety parameter was omitted the safety check will be performed by default.

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>  
<ActivityID>36</ActivityID>
```

API Calls: Ticketing

This section covers all API calls for the ticket sales module.

otsorder: Get Ticket Order

Added in Version: 20180323

This call will return order details, order items, barcode details and scanning records for a single ticket order.

Parameters

The **action** parameter must be set to **otsorder** and you must specify the **id** parameter.

Parameter	Data Type	Possible Values	Notes
action	string	Otsorder	Required
id	GUID	Any valid order number	The system's globally unique order number

Response

The response will include the following values:

Value	Data Type	Notes
ID	GUID	The system's globally unique order number
OrderType	string	
OrderDate	date	
LandingPageID	GUID	Filled in if placed on the non-default landing page
LandingPageName	string(50)	Filled in if placed on the non-default landing page
DeliveryMethod	string	
PaymentType	string	
ProcessorTransactionID	string	
CreditCardLastFour	string	Filled in if credit card sale
CreditCardAuthCode	string	Filled in if credit card sale
CheckNumber	string	Filled in if check sale
CheckName	string	Filled in if check sale
Subtotal	decimal	
SalesTax	decimal	
ProcessingFee	decimal	
Donation	decimal	

DiscountID	GUID	Filled in if discount used
DiscountName	string(50)	Filled in if discount used
DiscountAmount	decimal	Filled in if discount used
CharityID	GUID	Fill in if charitable order
CharityName	string(50)	Fill in if charitable order
CharityRepresentative	string(50)	Fill in if charitable order and representative name supplied
CharityAmount	decimal	Fill in if charitable order
TradeCategoryID	int	Fill in if trade or donation category applied to order
TradeCategoryName	string(50)	Fill in if trade or donation category applied to order
BillingFirstName	string(25)	
BillingLastName	string(35)	
BillingAddress1	string(50)	
BillingAddress2	string(50)	
BillingCity	string(25)	
BillingStateProvince	string(25)	
BillingCountry	string(25)	
BillingZipCode	string(15)	
BillingPhone	string(15)	
BillingEMail	string(50)	
ShippingFirstName	string(25)	
ShippingLastName	string(35)	
ShippingAddress1	string(50)	
ShippingAddress2	string(50)	
ShippingCity	string(25)	
ShippingStateProvince	string(25)	
ShippingCountry	string(25)	
ShippingZipCode	string(15)	
IPAddress	string(15)	
Referrer	string(50)	Result of the "how did you hear about this event?" prompt
AdNetworkCode	string(15)	Result of the adnet query string parameter passed to a landing page

UTMCampaign	string(250)	Result of the utm_campaign query string parameter passed to a landing page. <i>Added in Version: 20180930</i>
UTMContent	string(250)	Result of the utm_content query string parameter passed to a landing page. <i>Added in Version: 20180930</i>
UTMMedium	string(250)	Result of the utm_medium query string parameter passed to a landing page. <i>Added in Version: 20180930</i>
UTMSource	string(250)	Result of the utm_source query string parameter passed to a landing page. <i>Added in Version: 20180930</i>
UTMTerm	string(250)	Result of the utm_term query string parameter passed to a landing page. <i>Added in Version: 20180930</i>
Comments	string(500)	
PastPurchaser	true/false	

If there are tickets on the order, a Tickets section made up of summary Ticket items with the following information will be added:

Value	Data Type	Notes
ID	GUID	The system's globally unique ticket ID
Name	string(50)	The ticket's internal name
ReportingGroup	string(25)	An optional, user-supplied field that groups items on certain reports
LineItemID	string(30)	An optional, user-supplied field that contains a custom ID number displayed on reports and passed to the credit card processor
Quantity	int	The quantity of this type of ticket on the order
QuantityFree	int	The quantity of this type of ticket that was added through free ticket or buy X get 1 discounts. <i>Added in Version: 20180930</i>
Price	decimal	The price for this item at the time of sale. <i>Added in Version: 20180930</i>
ProcessingFee	decimal	The processing fee for this item at the time of sale. <i>Added in Version: 20180930</i>

SalesTax	decimal	The sales tax for this item at the time of sale. <i>Added in Version: 20180930</i>
-----------------	---------	---

If there are packages on the order, a Packages section made up of summary Package items with the following information will be added:

Value	Data Type	Notes
ID	GUID	The system's globally unique package ID
Name	string(50)	The package's internal name
ReportingGroup	string(25)	An optional, user-supplied field that groups items on certain reports
LineItemID	string(30)	An optional, user-supplied field that contains a custom ID number displayed on reports and passed to the credit card processor
Quantity	int	The quantity of this type of package on the order
QuantityFree	int	The quantity of this type of ticket that was added through free ticket or buy X get 1 discounts. <i>Added in Version: 20180930</i>
Price	decimal	The price for this item at the time of sale. <i>Added in Version: 20180930</i>
ProcessingFee	decimal	The processing fee for this item at the time of sale. <i>Added in Version: 20180930</i>
SalesTax	decimal	The sales tax for this item at the time of sale. <i>Added in Version: 20180930</i>

If the items on an order generate barcodes or have seating information, an IssuedTickets section with the following information will be added:

Value	Data Type	Notes
ID	GUID	The system's globally unique ticket ID
Name	string(50)	The ticket's internal name
Barcode	string(50)	
SeatArea	string(50)	The seating area's internal name

SeatRow	string(5)
SeatCol	string(5)

If there is any scanning activity for the order, a ScanRecords section with the following information will be added:

Value	Data Type	Notes
ActivityID	int	Unique, sequential ID per scan
Date	date	Includes time and time zone
Barcode	string(20)	
LocationID	int	
LocationName	string(50)	
LocationIsEntrance	true/false	Whether the location's scans count towards total attendance
ResultCode	int	
ResultMessage	string	

Note: This ScanRecords section does not have the TicketInformation or CredentialInformation subsections that a call to **activity** would, since you already have the ticket information in the order details.

Sample Call

This API call would request details for order **61862043-5ba7-4810-80a8-8b7a0d506353** as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=otsorder&id=61862043-5ba7-4810-80a8-8b7a0d506353

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Order>
  <ID>61862043-5ba7-4810-80a8-8b7a0d506353</ID>
  <OrderType>Online</OrderType>
  <OrderDate>2016-07-29T20:00:00.00</OrderDate>
  <LandingPageID/>
  <LandingPageName/>
  <DeliveryMethod>Print Online</DeliveryMethod>
  <PaymentType>Visa</PaymentType>
  <ProcessorTransactionID>1234567890</ProcessorTransactionID>
  <CreditCardLastFour>1234</CreditCardLastFour>
  <CreditCardAuthCode>123456</CreditCardAuthCode>
  <CheckNumber/>
  <CheckName/>
  <Subtotal>19.8000</Subtotal>
  <SalesTax>0.0000</SalesTax>
  <ProcessingFee>1.8000</ProcessingFee>
```


<Donation>0.0000</Donation>
<DiscountID>14c68307-b786-44ef-8a56-fadf365dfb39</DiscountID>
<DiscountName>10% Off</DiscountName>
<DiscountAmount>-2.0000</DiscountAmount>
<CharityID/>
<CharityName/>
<CharityRepresentative/>
<CharityAmount>0.0000</CharityAmount>
<TradeCategoryID/>
<TradeCategoryName/>
<BillingFirstName>Cassie</BillingFirstName>
<BillingLastName>Cueto</BillingLastName>
<BillingAddress1>123 North Street</BillingAddress1>
<BillingAddress2>Appt 514</BillingAddress2>
<BillingCity>Hagerstown</BillingCity>
<BillingStateProvince>MD</BillingStateProvince>
<BillingCountry>United States</BillingCountry>
<BillingZipCode>21740</BillingZipCode>
<BillingPhone>1231231234</BillingPhone>
<BillingEMail>cassie@cuetoems.com</BillingEMail>
<ShippingFirstName/>
<ShippingLastName/>
<ShippingAddress1/>
<ShippingAddress2/>
<ShippingCity/>
<ShippingStateProvince/>
<ShippingCountry/>
<ShippingZipCode/>
<IPAddress>192.168.1.1</IPAddress>
<Referrer>Other</Referrer>
<AdNetworkCode/>
<UTMCampaign>A71BC89A LAUNCH</UTMCampaign>
<UTMContent />
<UTMMedium>email</UTMMedium>
<UTMSource>Sales Launch Blast</UTMSource>
<UTMTerm />
<Comments/>
<PastPurchaser>>false</PastPurchaser>
<Tickets>
 <Ticket>
 <ID>350d7bd5-625c-4045-a9b2-d4e6d3079c76</ID>
 <Name>Any Day Grounds</Name>
 <ReportingGroup>Grounds</ReportingGroup>
 <LineItemID>ADG</LineItemID>
 <Quantity>2</Quantity>
 <QuantityFree>0</QuantityFree>
 <Price>9.0000</Price>
 <ProcessingFee>0.9000</ProcessingFee>
 <SalesTax>0.0000</SalesTax>
 </Ticket>
</Tickets>
<Packages/>
<IssuedTickets>
 <IssuedTicket>
 <ID>350d7bd5-625c-4045-a9b2-d4e6d3079c76</ID>

```

    <Name>Any Day Grounds</Name>
    <Barcode>TQG4P0R3</Barcode>
    <SeatArea/>
    <SeatRow/>
    <SeatCol/>
  </IssuedTicket>
</IssuedTickets>
<ScanRecords>
  <ScanRecord>
    <ActivityID>36</ActivityID>
    <Date>2017-11-20T15:32:11.693</Date>
    <Barcode>TL9CUY2W</Barcode>
    <TicketName>Any Day Grounds</TicketName>
    <LocationID>2</LocationID>
    <LocationName>Front Gate</LocationName>
    <LocationIsEntrance>true</LocationIsEntrance>
    <ResultCode>1</ResultCode>
    <ResultMessage>Allowed - Credential</ResultMessage>
  </ScanRecord>
</ScanRecords>
</Order>

```

otsorders: Get Ticket Orders

Added in Version: 20180323

This call will return a list of ID numbers, order details, order items, barcode details and scanning records for each ticket order in the system that matches your filter criteria.

Parameters

The **action** parameter must be set to **otsorders** and you may specify some optional filters.

Parameter	Data Type	Possible Values	Notes
action	string	otsorders	Required
mindate	date	Any date/time format	Optional - Specifies a minimum order date/time for records
maxdate	date	Any date/time format	Optional - Specifies a maximum order date/time for records

Response

The response will contain a list of Order objects, which you can find detailed in the **otsorder** section above.

Sample Call

This API call would request the list of orders from July 1, 2016 to July 31, 2016 as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=otsorders&mindate=2016-07-01&maxdate=2016-07-31

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Orders>
  <Order>See the otsorder section above for details.</Order>
</Orders>
```

otspackages: Get Ticket Packages

Added in Version: 20180323

This call will return a list of ID numbers, names, properties and settings for each ticket in the system. Packages may contain any number of tickets.

Parameters

The **action** parameter must be set to **otspackages**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	otspackages	Required

Response

The response will include the following values for each package:

Value	Data Type	Notes
ID	GUID	
Name	string(50)	The internal name, shown to staff and on reports
DisplayName	string(100)	The public name, shown to the public
Description	string	May contain user-supplied HTML. Do not display without sanitizing.
Price	decimal	
ProcessingFee	decimal	
ProcessingFeeTerm	string(20)	Used to customize the term for processing fees on the checkout page
SalesTax	decimal	
ShowForPublicSales	true/false	Whether the item is visible on the default public ticket sales page
ShowForStaffSales	true/false	Whether the item is visible on the back end staff order tool
ShowForWillCall	true/false	Whether the item is visible on the will call tools

Charitable	true/false	If a charitable item is on an order, the system will show the charity selection interface
DisplayGroup	string(100)	The name of the display group that the package is listed under on the sales page
ReportingGroup	string(25)	An optional, user-supplied field that groups items on certain reports
LineItemID	string(30)	An optional, user-supplied field that contains a custom ID number displayed on reports and passed to the credit card processor

If the package contains tickets, a Tickets section made up of summary Ticket items with the following information will be added:

Value	Data Type	Notes
ID	GUID	The system's globally unique ticket ID
Name	string(50)	The ticket's internal name
ReportingGroup	string(25)	An optional, user-supplied field that groups items on certain reports
LineItemID	string(30)	An optional, user-supplied field that contains a custom ID number displayed on reports and passed to the credit card processor
Quantity	int	The quantity of this type of ticket in the package

Sample Call

This API call would request the list of packages as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=otspackages

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Packages>
  <Package>
    <ID>923268a9-ed69-41ef-9732-5e4053f25b3f</ID>
    <Name>Weekly Grounds</Name>
    <DisplayName>Weekly Grounds</DisplayName>
    <Description>One grounds ticket for each day of the week.</Description>
    <Price>50.0000</Price>
```

```

<ProcessingFee>1.0000</ProcessingFee>
<ProcessingFeeTerm>Processing Fee</ProcessingFeeTerm>
<SalesTax>0.0000</SalesTax>
<ShowForPublicSales>true</ShowForPublicSales>
<ShowForStaffSales>true</ShowForStaffSales>
<ShowForWillCall>false</ShowForWillCall>
<Charitable>false</Charitable>
<DisplayGroup>Grounds Tickets</DisplayGroup>
<ReportingGroup>Grounds</ReportingGroup>
<LineItemID>WG</LineItemID>
<Tickets>
  <Ticket>
    <ID>350d7bd5-625c-4045-a9b2-d4e6d3079c76</ID>
    <Name>Any Day Grounds</Name>
    <ReportingGroup>Grounds</ReportingGroup>
    <LineItemID>ADG</LineItemID>
    <Quantity>7</Quantity>
  </Ticket>
</Tickets>
</Package>
</Packages>

```

otstickets: Get Tickets

Added in Version: 20180323

This call will return a list of ID numbers, names, properties and settings for each ticket in the system. Tickets are single-page items.

Parameters

The **action** parameter must be set to **otstickets**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	otstickets	Required

Response

The response will include the following values for each ticket:

Value	Data Type	Notes
ID	GUID	
Name	string(50)	The internal name, shown to staff and on reports
DisplayName	string(100)	The public name, shown to the public
Description	string	May contain user-supplied HTML. Do not display without sanitizing.

Date	date	Includes time component but will always be set to midnight
Price	decimal	
ProcessingFee	decimal	
ProcessingFeeTerm	string(20)	Used to customize the term for processing fees on the checkout page
SalesTax	decimal	
ShowForPublicSales	true/false	Whether the item is visible on the default public ticket sales page
ShowForStaffSales	true/false	Whether the item is visible on the back end staff order tool
ShowForWillCall	true/false	Whether the item is visible on the will call tools
HasETicketTemplate	true/false	Whether the item has an e-ticket template
MobileTicket	true/false	If mobile tickets are enabled, show this item in the mobile ticket interface
Charitable	true/false	If a charitable item is on an order, the system will show the charity selection interface
DisplayGroup	string(100)	The name of the display group that the ticket is listed under on the sales page
ScanMode	int	
ScanModeName	string	
ReportingGroup	string(25)	An optional, user-supplied field that groups items on certain reports
LineItemID	string(30)	An optional, user-supplied field that contains a custom ID number displayed on reports and passed to the credit card processor

Sample Call

This API call would request the list of tickets as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=otstickets

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Tickets>
  <Ticket>
```

```
<ID>350d7bd5-625c-4045-a9b2-d4e6d3079c76</ID>
<Name>Any Day Grounds</Name>
<DisplayName>Any Day Grounds</DisplayName>
<Description>Grounds access any single day of the event.</Description>
<Date>2018-07-29T00:00:00</Date>
<Price>10.0000</Price>
<ProcessingFee>1.0000</ProcessingFee>
<ProcessingFeeTerm>Service Charge</ProcessingFeeTerm>
<SalesTax>0.0000</SalesTax>
<ShowForPublicSales>true</ShowForPublicSales>
<ShowForStaffSales>true</ShowForStaffSales>
<ShowForWillCall>true</ShowForWillCall>
<HasETicketTemplate>true</HasETicketTemplate>
<MobileTicket>true</MobileTicket>
<Charitable>false</Charitable>
<DisplayGroup>Tickets</DisplayGroup>
<ScanMode>1</ScanMode>
<ScanModeName>Single Use</ScanModeName>
<ReportingGroup>Grounds</ReportingGroup>
<LineItemID>ADG</LineItemID>
</Ticket>
</Tickets>
```

API Calls: Volunteers

This section covers all API calls for the volunteer management module.

volcommittees: Get Committees and Member Counts

Added in Version: 20180323

This call will return a list of ID numbers, names and counts for each committee in the system.

Parameters

The **action** parameter must be set to **volcommittees**. There are no optional values.

Parameter	Data Type	Possible Values	Notes
action	string	volcommittees	Required

Response

The response will include the following values for each record:

Value	Data Type	Notes
CommitteeID	int	
Name	string(50)	
MembersDesired	int	
MembersAssigned	int	How many volunteer accounts are assigned to the committee
ChairsAssigned	int	How many chair accounts are assigned to the committee

Sample Call

This API call would request the list of committees as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=volcommittees

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Committees>
  <Committee>
    <CommitteeID>36</CommitteeID>
    <Name>Admissions</Name>
    <MembersDesired>40</MembersDesired>
    <MembersAssigned>33</MembersAssigned>
    <ChairsAssigned>2</ChairsAssigned>
  </Committee>
</Committees>
```


volpayments: Get Volunteer Payments

Added in Version: 20180323

This call will return transaction details for each volunteer payment that matches the specified criteria.

Parameters

The **action** parameter must be set to **volpayments** and you may specify some optional filters.

Parameter	Data Type	Possible Values	Notes
action	string	volpayments	Required
mindate	date	Any date/time format	Optional - Specifies a minimum date/time for records
maxdate	date	Any date/time format	Optional - Specifies a maximum date/time for records

Response

The response will include the following values for each record:

Value	Data Type	Notes
UserID	GUID	The system's globally unique user ID
FirstName	string(25)	
LastName	string(35)	
PaymentID	GUID	The system's globally unique payment ID
Date	date	
PaymentType	string	
Subtotal	decimal	
SalesTax	decimal	
ProcessorTransactionID	string	
CreditCardLastFour	string	Filled in if credit card sale
CreditCardAuthCode	string	Filled in if credit card sale
CheckNumber	string	Filled in if check sale
CheckName	string	Filled in if check sale
IPAddress	string(15)	

Sample Call

This API call would request the list of payments between July 1, 2016 and July 31, 2016 as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=volpayments&mindate=2016-07-01&maxdate=2016-07-31

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Payments>
  <Payment>
    <UserID>49809c5f-ffb0-4598-a758-4e5b96fae9bb</UserID>
    <FirstName>Cassie</FirstName>
    <LastName>Cueto</LastName>
    <PaymentID>1652efd3-829d-4bbf-8a73-05abf86d0f99</PaymentID>
    <Date>2016-07-29T13:45:13.133</Date>
    <PaymentType>Visa</PaymentType>
    <Subtotal>95.0000</Subtotal>
    <SalesTax>21.0000</SalesTax>
    <ProcessorTransactionID>1234567890</ProcessorTransactionID>
    <CreditCardLastFour>1234</CreditCardLastFour>
    <CreditCardAuthCode>123456</CreditCardAuthCode>
    <CheckNumber/>
    <CheckName/>
    <IPAddress>192.168.1.1</IPAddress>
  </Payment>
</Payments>
```

volprofile: Get Volunteer Profile

Added in Version: 20180323

This call will return details, committee information, uniform information, payments and schedule information for the specified user.

Parameters

The **action** parameter must be set to **volprofile** and you must specify the **id** parameter.

Parameter	Data Type	Possible Values	Notes
action	string	volprofile	Required
id	GUID	Any valid user ID	The system's globally unique user ID

Response

The response will include the following values:

Value	Data Type	Notes
UserID	GUID	The system's globally unique user ID
Username	string(50)	
RegistrationStatus	string	
RegistrationDate	date	
RegistrationCodeID	int	Filled in if the volunteer used a registration code
RegistrationCodeName	string(50)	Filled in if the volunteer used a registration code
Agreement1Timestamp	date	Filled in if the volunteer agreed to the first agreement prompt
Agreement2Timestamp	date	Filled in if the volunteer agreed to the second agreement prompt
FirstName	string(25)	
MiddleName	string(25)	
LastName	string(35)	
Gender	string(1)	
Birthdate	date	
Address1	string(50)	
Address2	string(50)	
City	string(25)	
StateProvince	string(25)	
Country	string(25)	
ZipCode	string(15)	
ShippingAddress1	string(50)	
ShippingAddress2	string(50)	
ShippingCity	string(25)	
ShippingStateProvince	string(25)	
ShippingCountry	string(25)	
ShippingZipCode	string(15)	
HomePhone	string(15)	
WorkPhone	string(15)	
CellPhone	string(15)	
EMail	string(50)	
EMailVerified	true/false	
DriversLicense	true/false	
EmergencyContactName	string(50)	

EmergencyContactRelationship	string(50)	
EmergencyContactPhone	string(15)	
GuardianContactName	string(50)	Prompt displayed if volunteer under 18 years old
GuardianContactRelationship	string(50)	Prompt displayed if volunteer under 18 years old
GuardianContactEMail	string(50)	Prompt displayed if volunteer under 18 years old
YearsOfService	int	
PreviousExperience	string	
VolunteerWith	string(50)	
CanHelpBeforeEvent	true/false	
CanHelpAfterEvent	true/false	
CanWorkMultiShiftDay	true/false	
PaymentStatus	string	
UniformOrderReceived	true/false	
Notes	string	
PhotoURL	string	Filled in if photo uploaded, otherwise blank

If a volunteer selected committee preferences, a CommitteePreferences section with the following information will be added:

Value	Data Type	Notes
CommitteeID	int	
Name	string(50)	

If the volunteer has been assigned to at least one committee, a CommitteeAssignments section with the following information will be added:

Value	Data Type	Notes
CommitteeID	int	
Name	string(50)	
AssignmentDate	date	

If the volunteer has selected uniform items, a UniformItems section with the following information will be added:

Value	Data Type	Notes
Name	string(50)	
SKU	string(25)	
Size	string(10)	
Color	string(25)	
Quantity	int	

If the volunteer has submitted a payment, a Payments section with the following information will be added:

Value	Data Type	Notes
PaymentID	GUID	The system's globally unique payment ID
Date	date	
PaymentType	string	
Subtotal	decimal	
SalesTax	decimal	
ProcessorTransactionID	string	
CreditCardLastFour	string	Filled in if credit card sale
CreditCardAuthCode	string	Filled in if credit card sale
CheckNumber	string	Filled in if check sale
CheckName	string	Filled in if check sale
IPAddress	string(15)	

If the volunteer has been assigned to shifts, a Shifts section with the following information will be added:

Value	Data Type	Notes
CommitteeName	string(50)	
ShiftName	string(50)	
StartTime	date	
EndTime	date	
Location	string(50)	
Task	string(50)	
CheckedIn	true/false	

Sample Call

This API call would request the profiles for the user ID **49809c5f-ffb0-4598-a758-4e5b96fae9bb** as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=volprofile&id=49809c5f-ffb0-4598-a758-4e5b96fae9bb

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Volunteer>
  <UserID>49809c5f-ffb0-4598-a758-4e5b96fae9bb</UserID>
  <Username>cassie</Username>
  <RegistrationStatus>Registered</RegistrationStatus>
  <RegistrationDate>2016-07-29T13:34:26.393</RegistrationDate>
  <RegistrationCodeID/>
  <RegistrationCodeName/>
  <Agreement1Timestamp>2016-07-29T13:34:26.393</Agreement1Timestamp>
  <FirstName>Cassie</FirstName>
  <MiddleName>Elgato</MiddleName>
  <LastName>Cueto</LastName>
  <Gender>F</Gender>
  <Birthdate>2000-07-29T00:00:00</Birthdate>
  <Address1>123 N Street</Address1>
  <Address2/>
  <City>Hagerstown</City>
  <StateProvince>MD</StateProvince>
  <Country>US</Country>
  <ZipCode>21740</ZipCode>
  <ShippingAddress1/>
  <ShippingAddress2/>
  <ShippingCity/>
  <ShippingStateProvince/>
  <ShippingCountry/>
  <ShippingZipCode/>
  <HomePhone>1231231234</HomePhone>
  <WorkPhone/>
  <CellPhone>1231231234</CellPhone>
  <EMail>cassie@cuetoems.com</EMail>
  <EMailVerified>true</EMailVerified>
  <DriversLicense>true</DriversLicense>
  <EmergencyContactName>John</EmergencyContactName>
  <EmergencyContactRelationship>Feeder</EmergencyContactRelationship>
  <EmergencyContactPhone>1231231234</EmergencyContactPhone>
  <GuardianContactName/>
  <GuardianContactRelationship/>
  <GuardianContactEMail/>
  <YearsOfService>3</YearsOfService>
  <PreviousExperience>I have worked at over 200 golf events.</PreviousExperience>
  <VolunteerWith/>
  <CanHelpBeforeEvent>false</CanHelpBeforeEvent>
  <CanHelpAfterEvent>true</CanHelpAfterEvent>
  <CanWorkMultiShiftDay>true</CanWorkMultiShiftDay>
  <PaymentStatus>Paid</PaymentStatus>
  <UniformOrderReceived>true</UniformOrderReceived>
  <Notes/>
  <PhotoURL/>
  <CommitteePreferences>
    <CommitteePreference>
```

```

    <CommitteeID>43</CommitteeID>
    <Name>Construction</Name>
  </CommitteePreference>
  <CommitteePreference>
    <CommitteeID>36</CommitteeID>
    <Name>Admissions</Name>
  </CommitteePreference>
</CommitteePreferences>
<CommitteeAssignments>
  <Committee>
    <CommitteeID>36</CommitteeID>
    <Name>Admissions</Name>
    <AssignmentDate>2016-08-08T00:00:00</AssignmentDate>
  </Committee>
</CommitteeAssignments>
<UniformItems>
  <UniformItem>
    <Name>Women's Shirt</Name>
    <SKU>WSHIRT</SKU>
    <Size>XL</Size>
    <Color/>
    <Quantity>1</Quantity>
  </UniformItem>
</UniformItems>
<Payments>
  <Payment>
    <PaymentID>1652efd3-829d-4bbf-8a73-05abf86d0f99</PaymentID>
    <Date>2016-07-29T13:45:13.133</Date>
    <PaymentType>Visa</PaymentType>
    <Subtotal>95.0000</Subtotal>
    <SalesTax>21.0000</SalesTax>
    <ProcessorTransactionID>1234567890</ProcessorTransactionID>
    <CreditCardLastFour>1234</CreditCardLastFour>
    <CreditCardAuthCode>123456</CreditCardAuthCode>
    <CheckNumber/>
    <CheckName/>
    <IPAddress>192.168.1.1</IPAddress>
  </Payment>
</Payments>
<Shifts>
  <Shift>
    <CommitteeName>Merchandise</CommitteeName>
    <ShiftName>Morning Shift</ShiftName>
    <StartTime>2017-08-01T06:00:00</StartTime>
    <EndTime>2017-08-01T11:30:00</EndTime>
    <Location/>
    <Task/>
    <CheckedIn>>false</CheckedIn>
  </Shift>
</Shifts>
</Volunteer>

```

volprofiles: Get Volunteer Profiles

Added in Version: 20180323

This call will return a list of ID numbers, details, committee information, uniform information, payments and schedule information for each volunteer in the system that matches your filter criteria.

Parameters

The **action** parameter must be set to **volprofiles** and you may specify some optional filters.

Parameter	Data Type	Possible Values	Notes
action	string	volprofiles	Required
mindate	date	Any date/time format	Optional - Specifies a minimum registration date/time for records
maxdate	date	Any date/time format	Optional - Specifies a maximum registration date/time for records

Response

The response will contain a list of Volunteer objects, which you can find detailed in the **volprofile** section above.

Sample Call

This API call would request the list of profiles for volunteers who registered between July 1, 2016 and July 31, 2016 as XML:

https://www.cuetoems.com/cems_demo/api.ashx?u=api&a=385AE3A5-C3AC-4485-9E41-81B15E2E513F&format=xml&action=volprofiles&mindate=2016-07-01&maxdate=2016-07-31

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<Volunteers>
  <Volunteer>See the volprofile section above for details.</Volunteer>
</Volunteers>
```