

# **API** Documentation

http://mid.as/api v2.08



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# **API Usage Guide**

#### Overview

The MIDAS API (Application Programming Interface) allows developers to interface directly with MIDAS from their own applications.

## Installing the API

The MIDAS API is an optional add-on for MIDAS v4.03 (or later), that can be purchased along with MIDAS, or added at a later stage.

- To purchase MIDAS and the API addon, please visit: https://mid.as/purchase
- To add the API addon to an existing MIDAS installation, please go to MIDAS Admin Options → Manage Addons → Available Addons → API Access

Once purchased, the API will become available for one-click installation via MIDAS Admin Options  $\rightarrow$  Manage Addons  $\rightarrow$  Addons Ready To Install  $\rightarrow$  API Access

Once installed, various API settings are available via MIDAS Admin Options  $\rightarrow$  Manage Addons  $\rightarrow$  Installed Addons  $\rightarrow$  API Access

### Making API calls

To make an API call, your application will need to perform an HTTP POST request (GET requests can also be enabled see <u>API Settings</u> below) to http://your\_midas\_url/api.pl. Each request must include as a minimum your unique API key, an API command and all associated required parameters for the API command issued. Please refer to the API Command Reference for details of available API commands and associated parameters.

### **API** responses

The MIDAS API returns JSON (JavaScript Object Notation) formatted data. Example responses are shown throughout the API Command Reference. Error responses are also returned in JSON format and denoted by the term "error".

# **API Settings**

A number of API settings are available via MIDAS Admin Options  $\rightarrow$  Manage Add-ons  $\rightarrow$  API Access.



Sotting	Description		
Setting	Description		
Enable API access?	Allows enabling/disabling of API access. If disabled, any API calls will return: { "error": "not enabled" }		
Read Only access?	With this setting enabled, the API will operate in "read-only" mode and will be prevented		
	from making any changes to your MIDAS. If you only intend to read data from MIDAS, and		
	not write/make changes using the API, you should select this option.		
Allow GET (as well as	By default, only http POST requests to the API are allowed, and http GET requests are		
POST) method?	rejected. Enabling this setting will allow you to perform either GET and POST http requests to the API		
Enable logging of all	(Only available to self-hosted editions of MIDAS) When enabled, API calls will be logged to		
calls?	an api log.dat file (located in your MIDAS directory). The format of each line of this file is		
Calls:	as follows:		
	timestamp IP address api command		
	This can be used to log/monitor calls to your API. It should only be enabled for debugging		
	purposes as it will reduce performance of the API, and may lead to a large api log.dat file if		
	left enabled for a long of time.		
API actions appear in	By default when a user performs an action in MIDAS (such as adding a booking), the action		
Recent Activity log?	is recorded in the Recent Activity log. This setting controls whether actions performed		
	through the API that result in changes to data within MIDAS should also be included in the		
	Recent Activity log.		
Allowed Referrers	Allows calls to your API to be restricted from certain domains/IP addresses. If left blank,		
	API calls will be allowed from any referrer. For calls from banned referrers, the API will		
	return:		
	{"error":"referrer not allowed"}		

#### **Global Parameters**

The following parameters must be supplied with each API call

Required Parameters	Possible Values	Description
key	<api key=""></api>	Your unique API key. For security, the API will only respond to your unique key. Calls made to the API without a key, or with an invalid key, will not be processed. You should not make your API key visible/available to anyone.
action	<api command=""></api>	The action you wish the API to perform. See the API Command Reference for a full list of supported commands.

The following parameters are optional, but may also be included with any API call

Optional Parameters	Possible Values	Description
I	<language></language>	By default, the API will use the "en-US" language pack where applicable. To optionally use a different language pack, its corresponding language code can be specified.
db	<database></database>	MIDAS allows you to optionally run multiple, independent, databases from the same interface. If multiple databases have been setup in your MIDAS, API calls will be made to whichever database is currently set as the "default". To make API calls to one of the other defined databases, its corresponding database code can be passed in the "db" parameter. To locate the correct database code to pass with the "db" parameter, open up your midasglobal.dat settings file in a standard text editor and locate the <database> section within this file. This section contains details of all defined databases for your MIDAS. The database "code" to use is the current value of the "r" parameter for the relevant database.</database>
epoch	1   0	For API calls that require start/end times, setting "epoch" to "1" will accept start/end values in epoch seconds (instead of the default YYYYMMDDHHMM format)  For API calls that return a date/time, setting "epoch" to "1" will return date/time values in epoch seconds (instead of following the current MIDAS date/time format settings, for instance, "DD/MM/YYYY @ HH:MM"

#### What are epoch seconds?

Epoch seconds are the number of seconds that have elapsed since midnight Coordinated Universal Time (UTC) on 1 January 1970

#### Scope

Version 1.xx of the API offered a "read-only" interface to the MIDAS system, allowing data to be read, but not be added, changed, or removed.

Version 2.xx of the API provides a "bi-directional" interface to the MIDAS system, allowing data to be both read and also to be added, changed, or removed.

# **API Command Reference**

# add\_booking

Adds a new booking.

Required Parameters	Possible Values	Description
start	Valid date and time	Start time
	(Format: YYYYMMDDHHMM)	
end	Valid date and time	End time
	(Format: YYYYMMDDHHMM)	
venue	Venue ID   Venue Name	The unique numeric ID or the name of the venue the
		booking is for

Optional Parameters	Possible Values	Description
client	Client ID	The numeric ID of the existing client that the booking to be added is for
type	Booking Type ID   Booking Type Name	The numeric ID of the Booking Type, or the name of the Booking Type the booking should be assigned
attendees	Number	The number of booking attendees
notes	String	Notes about the booking
resources	Quantity & Resource ID  Resource Name	Resources to be added to the booking. Values should be passed as "qty resource (ID or name)".  For example, to add 2 Tables to a booking, pass "2 Tables".  This parameter can be added multiple times to add
accept_limited_resources	0   1	further resources  For bookings with Resources, this parameter determines whether those bookings should still be added if the quantity of resources requested isn't available.  For example, if you add 10 Tables to a booking, yet only 5 Tables are available, an error will be returned and the booking won't be added. However, passing the accept_limited_resources parameter with a value of "1" will add the booking, but with reduced resource quantities (in the previous example, this would mean that only 5 Tables would be added to the booking, instead of the desired 10)
no_watches	0   1	Setting the "no_watches" parameter to "1" will suppress generation of Watch notifications for users who are monitoring new bookings, otherwise omitting this parameter (or setting it to "0") will allow Watch notifications to be generated accordingly
status	request   confirmed	If omitted or set to "confirmed", bookings will be added.  If set to "request", the booking will be added as a provisional booking "request" only
<custom fields=""></custom>	Custom Value	If you've defined custom booking fields in your MIDAS, you can optionally specify values for these fields for the booking you're adding. For example, if you have a custom field named "My

Custom Field", you would pass the parameter "my\_custom\_field" together with the value you wish to set

```
Example Response
{
    "booking_added":"123"
}
```

Variables Returned (on success)	
booking_added	A unique booking ID corresponding the newly added booking

Variables Return (on error)	ned
error	The reason why the booking couldn't be added. Typical examples include:
	Unavailable (clashes with an existing booking)
	Unavailable - Blocked By Meeting Room 1
	45 Attendees will exceed the maximum capacity of Meeting Room 1 (15)
	Outside Operating Hours
	Venue unavailable from 1/1/2015
	Venue unavailable between 1/1/2015-1/2/2015
	Venue not available until 1/1/2015
	Only x5 Tables Available

# add\_client

Adds a new client record.

Required Parameters	Possible Values	Description
client	String	Client name

Optional Parameters	Possible Values	Description
org	String	The client's Organization name
email	Email address	The client's Email address
address	String	The client's postal/mailing address
phone	Number	The client's telephone number
fax	Number	The client's fax number
mobile	Number	The client's mobile/cell number
notes	String	Notes about the client
tax_exempt	0   1	Specifies whether the client is exempt from being charged tax on their invoices. If this parameter is omitted a default value of "0" will be assumed (i.e. client' is not exempt from tax)quantities (in the previous example, this would mean that only 5 Tables would be added to the booking, instead of the desired 10)

```
Example Response
{
     "client_added":"56"
}
```

Variables Returned	
client_added	A unique client ID corresponding the newly added client record

# add\_invoice

Creates a new invoice.

Required Parameters	Possible Values	Description
client	Client ID	The numeric ID of the existing client that the invoice being added for
item_x	String	The item to be invoiced. Increment $x$ to each new item to appear on the invoice. For example, to create an invoice with two items, the first item to appear on the invoice should be passed as $item_1$ , the second as $item_2$ , and so forth
qty_x	Number	The quantity of the corresponding $item_x$ item to be added
rate_x	Number	The rate (charge) (without currency symbol - i.e. 10.00) of the
		corresponding item $x$ item to be added

Optional Parameters	Possible Values	Description
notes	String	Additional notes to appear on the invoice
tax	Number	The percentage rate of tax to be applied to the invoice. If this parameter
		is omitted, the default tax rate will be applied

```
Example Response
{
     "invoice_added":"MIDAS00075"
}
```

Variables Returned	
invoice_added	The Invoice number/reference of the newly created invoice

# add\_resource

Adds a new resource to the system.

Required Parameters	Possible Values	Description
resource	String	The name of the new resource

Optional Parameters	Possible Values	Description
type	equipment   consumable   staffing	The type of resource to be added. If this parameter is omitted, the resource type will default to "equipment"
qty	Number	The available quantity of the new resource. If this parameter is ommited an "Unlimited" available quantity will be assumed
charge	Decimal	The charge (without currency symbol - i.e. 10.00) for the resource. This will be a per-hour charge where the $type$ parameter is set to "staffing", otherwise this is a per-booking charge
public	0   1	Sets whether the resource is publicly requestable (can appear on the Public Booking Request screen). If this parameter is omitted, the resource won't be publicly requestable
venues	Venue IDs	A comma-separated list of Venue ID's the resource will be available to. If this parameter is omitted, the resource will be available to all venues

```
Example Response
{
    "resource_added":"67"
}
```

Variables Returned	
resource_added	A unique resource ID corresponding the newly added resource

## approve\_request

Approves a booking request.

Required Parameters	Possible Values	Description
id	Booking ID	The numeric ID of the booking request to be approved
Optional Parameters	Possible Values	Description
silent	0   1	By default when a booking request is approved, the original requestor is sent an email notification informing them that their request has been approved. Setting "silent" to "1" will suppress the sending of this notificat

```
Example Response
{
     "request_approved":"1"
}
```

Variables Returned	
request_approved	Returns "1" after a successful approval

# del\_booking

Deletes a single booking.

Required Parameters	Possible Values	Description
id	Booking ID	The unique numerical reference of the booking to be deleted (which can
		be determined from the "get_bookings" call)

Optional Parameters	Possible Values	Description
force	0   1	By default, when a booking is "deleted", it still persists in a "hidden" state (allowing it to be restored at a later stage). Passing the "force" parameter with a value of "1" will mean that the booking will be completely removed from the system
no_watches	0   1	Setting the "no_watches" parameter to "1" will supress generation of Watch notifications for users who are monitoring deleted bookings, otherwise omitting this parameter (or setting it to "0") will allow Watch notifications to be generated accordingly

```
Example Response
{
     "bookings_deleted":"1"
}
```

# Variables Returned bookings\_deleted The number of bookings deleted

# del\_bookings

Deletes multiple bookings across a date range.

Required Parameters	Possible Values	Description
start	Valid date and time (Format: YYYYMMDDHHMM)	Sets the start of the window in which bookings should be deleted
end	Valid date and time (Format: YYYYMMDDHHMM)	Sets the end of the window in which bookings should be deleted

Optional Parameters	Possible Values	Description
client	Client ID	Limits deleting bookings to a specific client
venue	<venue name=""></venue>	Limits deleting of bookings to a specific venue
type	<booking type=""></booking>	Limits deleting of bookings to a specific booking type

Any combination of the above optional parameters may be used to limit which bookings are deleted. For example, specifying both a client and a venue will only delete bookings which match BOTH criteria.

Optional Parameters	Possible Values	Description	
force	0   1	By default, when a booking is "deleted", it still persists in a "hidden" state (allowing it to be restored at a later stage). Passing the "force" parameter with a value of "1" will mean that the booking will be completely removed from the system	
no_watches	0   1	Setting the "no_watches" parameter to "1" will supress generation of Watch notifications for users who are monitoring deleted bookings, otherwise omitting this parameter (or setting it to "0") will allow Watch notifications to be generated accordingly	

```
Example Response
{
     "bookings_deleted":"7"
}
```

Variables Returned	
bookings_deleted	The number of bookings deleted

# del\_client

Deletes existing client records.

Required Parameters (at least 1 required)	Possible Values	Description	
id	Client ID	The unique numerical id of the client (which can be determined from the "get_client" call)  Passing this parameter will override all other required parameters	
client	String	Client name	
org	String	Organization name	
email	Email address	Email address	
address	String	Postal/mailing address	
phone	Number	Telephone number	
fax	Number	Fax number	
mobile	Number	Mobile/cell number	
notes	String	Notes about the client	

<b>Optional Parameters</b>	Possible Values	Description
retain_bookings	1   0	By default, when a client is deleted, all associated bookings for the client
		are also deleted. Passing the retain_bookings parameter with a value
	of "1" will mean that no bookings will be removed when a client is	
		deleted

```
Example Response
{
     "clients_deleted":"1",
     "bookings_deleted":"24"
}
```

Variables Returned	
clients_deleted	The number of clients deleted
bookings_deleted	The number of bookings deleted

# del\_invoice

#### Deletes an existing invoice

Required Parameters	Possible Values	Description
invoice	Invoice ID	The number/reference of the invoice to delete

```
Example Response
{
    "invoice_deleted":"MIDAS00075"
}
```

#### **Variables Returned**

invoice\_deleted The Invoice number/reference of the deleted invoice

# del\_resource

Deletes an existing resource, and removes it from any existing bookings

Required Parameters	Possible Values	Description
resource	Resource ID	The numeric ID of the existing resource to delete

```
Example Response
{
     "resource_deleted":"67",
     "bookings_affected":"4,8,15,16,23,42"
}
```

Variables Returned		
resource_deleted	The numeric ID of the deleted resource	
bookings_affected	A comma-separated list of all the booking ID's from which the deleted resource has been removed	

# email\_client

Send an email to an existing client.

Required Parameters	Possible Values	Description
client	Client ID	The numeric ID of the existing client to email
subject	String	The subject line of the email
body	Text	The main body of the email. HTML is allowed

<b>Optional Parameters</b>	Possible Values	Description	
invoice	Invoice ID	The number/reference of an invoice to include within the email. Note:	
		Only invoices for the specific client being emailed can be included	

```
Example Response
{
    "completed":"1"
}
```

Variables Returned	
completed	Returns "1" once the API call has completed

### gen\_invoice

Automatically generate invoice(s).

#### To generate an invoice from an existing booking:

Required Parameters	Possible Values	Description
booking	Booking ID	The numeric ID of the existing booking for which to
		generate an invoice for

```
Example Response
{
    "invoice_created":"MIDAS00075"
}
```

Variables Returned	
invoice_created	The Invoice number/reference of the newly generated invoice

#### To generate a series of invoices across a date range:

Required Parameters	Possible Values	Description
start	Valid date and time	Sets the start of the window in which bookings should be
	(Format: YYYYMMDDHHMM)	included in generated invoices
end	Valid date and time	Sets the end of the window in which bookings should be
	(Format: YYYYMMDDHHMM)	included in generated invoices

<b>Optional Parameters</b>	Possible Values	Description
client	Client ID	The numeric ID of the existing client who's bookings
		should be included on the generated invoice

Including the optional "client" parameter will limit invoice generation to a single invoice containing all bookings for the specified client which take place between the specified start/end values.

Omitting the optional "client" parameter will generate separate invoices for each client with bookings taking place between the specified start/end values.

```
Example Response
{
    "invoices_created":"MIDAS00076, MIDAS00077, MIDAS00078, MIDAS00079"
}
```

Variables Returned	
invoices_created	A comma-separated list of all newly generated invoices

### get\_activity

Returns all MIDAS user activity between two times. The optional "user" parameter can be used to limit the activity returned to a specific user, and the optional "filter" parameter can be used to limit the results to a specific activity.

Required Parameters	Possible Values	Description
start	Valid date and time	Start time
	(Format: YYYYMMDDHHMM)	
end	Valid date and time	End time
	(Format: YYYYMMDDHHMM)	

Optional Parameters	Possible Values	Description
user	<user's full="" name="">   SYSTEM</user's>	Limit the returned activity to a specific user identified by <user's full="" name=""> or the keyword "SYSTEM". "SYSTEM" will return activity not assigned to a specific user (for example database backups, new booking requests received, etc). If this parameter is omitted, activity for all users (including "SYSTEM") will be returned</user's>
filter	<activity code=""></activity>	Limit the returned activity to a specific action. See Appendix A for a list of activity codes

Variables Returned		
time	Date/Time activity occurred	
user	User who generated activity	
action	Code of action performed. See Appendix A for a list of activity codes	
data1	Returns additional data specific to action. See Appendix A for more information	
data2	Returns additional data specific to action. See Appendix A for more information	
data3	Returns additional data specific to action. See Appendix A for more information	
data4	Returns additional data specific to action. See Appendix A for more information	

# get\_availability

Checks whether a venue is available (free) for booking between two times

Required Parameters	Possible Values	Description
start	Valid date and time (Format: YYYYMMDDHHMM)	Start time
end	Valid date and time (Format: YYYYMMDDHHMM)	End time
venue	<venue name=""></venue>	Venue

<b>Optional Parameters</b>	Possible Values	Description
attendees	<number></number>	The number of desired attendees. If specified, availability will also be dependent upon whether the number of attendees if less than the venue's capacity and/or maximum global occupancy levels.

Example Response		
{	pility":"1"	
}	, i i	

Variables Returned	
availability	Current Venue Availability A value of "1" means the venue is "available" on the dates/times specified A value of "Unavailable" means the venue is not available on the dates/times specified (i.e. clashes with an existing booking) Any other values also mean "Unavailable" but will specify the reason for the unavailability i.e. "This will exceed your maximum occupancy level", or "Venue unavailable from 6/5/2103"

### get\_booking

Returns details of a specific booking.

Required Parameters	Possible Values	Description
id	Booking ID	The unique numerical reference of the booking

```
Example Response
      "id":"222",
      "start":"5/4/2013 @ 13:00",
      "end":"5/4/2013 @ 14:00",
      "venue":"Room 3",
      "client": "Some User (Some Org)",
      "type": "Community",
      "attendees":"30",
      "notes":"",
      "resources":[
            "resource": "Laptop",
            "qty":"2"
            },
            "resource": "Projector",
            "qty":"1"
            ],
      "invoice": "MIDAS00001",
      "history":[
            "action": "Added",
            "date":"2/4/2013 @ 08:23",
            "user":"Joe Bloggs"
            },
            "action": "Modified",
            "date":"2/4/2013 @ 16:52",
            "user":"Joe Bloggs"
            ],
      "status": "confirmed"
      }
```

Variables Returned	
id	Internal Booking ID
start	Start date/time of booking
end	End date/time of booking
venue	Venue
client	Client the booking is for
type	Booking Type
attendees	Estimated number of people attending booking
notes	Booking Notes
resources	Resources assigned to booking
resource	The name of the resource
qty	The quantity of the resource
invoice	Invoice in which the booking appears
history	Booking history
action	The action performed. This will be one of the following:

	"Booking Request Received", "Added", "Modified", "Deleted", "Restored", or "Invoice Created"	
date	The date/time the action occurred	
user	The user who performed the action	
custom fields	Any custom booking fields setup in your MIDAS will also be returned	
status	Denotes whether the booking is a "request", a "confirmed" booking, or whether it	
	has been "deleted"	

### get\_bookings

Returns all bookings between two dates/times

Required Parameters	Possible Values	Description
start	Valid date and time (Format: YYYYMMDDHHMM)	Sets the start of the window for which bookings should be returned
end	Valid date and time (Format: YYYYMMDDHHMM)	Sets the end of the window for which bookings should be returned

<b>Optional Parameters</b>	Possible Values	Description
client	<client id=""></client>	Limits returned bookings to a specific client, based on a Client ID (which may first be obtained via a "get client" call)
venue	<venue name=""></venue>	Limits returned bookings to a specific venue
type	<booking type=""></booking>	Limits returned bookings to a specific booking type
status	all   request   deleted	Controls which bookings are returned. "request" will only return booking requests. "deleted" will only return deleted bookings. "all" will return all bookings (including deleted bookings and booking requests). If this parameter is omitted only confirmed bookings will be returned

```
Example Response
[
      "id":"222",
      "start":"5/4/2013 @ 13:00",
      "end":"5/4/2013 @ 14:00",
      "venue": "Room 3",
      "client": "Some User (Some Org)",
      "type": "Community",
      "attendees": "30",
      "notes":"",
      "resources":[
            "resource": "Laptop",
            "qty":"2"
            },
            "resource": "Projector",
            "qty":"1"
            ],
      "invoice": "MIDAS00001",
      "history":[
            "action": "Added",
            "date":"2/4/2013 @ 08:23",
            "user":"Joe Bloggs"
            } ,
            "action": "Modified",
            "date":"2/4/2013 @ 16:52",
            "user":"Joe Bloggs"
      },
      "id":"223",
      "start":"5/4/2013 @ 14:15",
```

Variables Returned	
id	Internal Booking ID
start	Start date/time of booking
end	End date/time of booking
venue	Venue
client	Client the booking is for
type	Booking Type
attendees	Estimated number of people attending booking
notes	Booking Notes
resources	Resources assigned to booking
resource	The name of the resource
qty	The quantity of the resource
invoice	Invoice in which the booking appears
history	Booking history
action	The action performed. This will be one of the following:
	"Booking Request Received", "Added", "Modified", "Deleted", "Restored", or
	"Invoice Created"
date	The date/time the action occurred
user	The user who performed the action
custom fields	Any custom booking fields setup in your MIDAS will also be returned

## get\_client

#### Returns client records

Required Parameters (at least 1 required)	Possible Values	Description
client	<client name=""></client>	Client name
org	<organization name=""></organization>	Organization name
email	<email address=""></email>	Email address

<b>Optional Parameters</b>	Possible Values	Description
match	exact   loose	Allows specifying the closeness of the match.  If match is set "exact" and "client" is set to "Joe Bloggs", only clients with the name "Joe Bloggs" will be returned.  If match is set to "loose" and "email" is set to "@mid.as", any client with an "@mid.as" email address will be returned.  If the match parameter is omitted only exact matches are returned

Variables Returned	
id	Unique client identification number
name	Client's name
organization	Client's organization
email	Client's email address
address	Client's postal address
phone	Client's telephone number
fax	Client's fax number
mobile	Client's mobile (cell) number
notes	Notes about the client
added	Date/time when client was added to MIDAS

# get\_consumable\_levels

Returns the current stock level of all consumable items

#### **Required Parameters**

This API command has no additional required parameters

Variables Returned	
consumable	The name of the consumable
qty_remaining	The current stock level. If no stock quantity has been defined, <b>qty_remaining</b> will return "Unlimited"

### get\_invoice

Retrieves a specific invoice

Required Parameters	Possible Values	Description
invoice	<invoice reference=""></invoice>	Invoice Reference

```
Example Response
      "client": "MIDAS (MIDAS2)",
      "date": "5/11/2012 @ 10:00",
      "items":[
            "description": "Room 1 (6/11/2012 @ 19:30 - 21:30)",
            "qty":"2.00",
            "rate":"23.50"
            "description":"Room 2 (13/11/2012 @ 19:30 - 21:30)",
            "qty":"2.00",
            "rate":"23.50"
            ],
      "total":"94.00",
      "tax rate":"20.00",
      "tax amount": "18.80",
      "paid":"0.00",
      "history":[
            "action": "Created",
            "date":"5/11/2012 @ 08:45",
            "user": "MIDAS Administrator"
            },
            "action": "Modified",
            "date": "5/11/2012 @ 09:42",
            "user": "MIDAS Administrator"
            } ,
            "action": "Emailed",
            "date":"5/11/2012 @ 10:00",
            "user": "MIDAS Administrator"
            ]
```

Variables Returned	
client	Client
date	Invoice Date (or "Invoice Not Sent if invoice hasn't been emailed/printed)
items	Invoice items
description	The item's description
qty	The item's quantity
rate	The item's rate (charge)
total	Invoice total (ex tax)
tax_rate	Tax rate (percentage)
tax_amount	Tax amount
paid	Amount paid
history	Invoice history
action	The action performed. This will be one of the following:

	"Created", "Modified", "Printed", "Emailed", "Payment Received", "Payment Overdue", "Paid In Full"
date	The date/time the action occurred
user	The user who performed the action

# get\_invoices

Retrieves a list of invoices for a specific client

Required Parameters (at least 1 required)	Possible Values	Description
client	<client name=""></client>	Client name
org	<organization name=""></organization>	Organization name
email	<email address=""></email>	Email address

```
Example Response
{
    "client":"Joe Bloggs (Bloggs Inc)",
    "email":"joe@bloggsinc.com",
    "invoices":"MIDAS0001,MIDAS0003,MIDAS0004"
}
```

Variables Returned	
client	Client/Organization
email	Client's email address
invoices	A comma separated list of all invoices associated with the client

### get\_messages

Retrieves all current internal messages for a specific user

Required Parameters (only 1 required)	Possible Values	Description
email	<user's email=""></user's>	User's email address
user	<user's name=""></user's>	User's name

Variables Returned	
message	Details of the watch
author	The user who created the message
created	Date/Time the message was created
expires	Date/Time at which the message expires

## get\_reminders

Retrieves all current reminders for a specific user

Required Parameters (only 1 required)	Possible Values	Description
email	<user's email=""></user's>	User's email address
user	<user's name=""></user's>	User's name

Variables Returned	
reminder	Details of the reminder
expires	Date/Time at which the reminder expires

### get\_resource

Returns resource information

Required Parameters	Possible Values	Description
resource	<resource name=""></resource>	Resource name

Variables Returned	
resource	Resource name
category	The category the resource item falls under. Possible values are:
	<b>E</b> = Equipment
	<b>C</b> = Consumable
	<b>S</b> = Staffing
qty	The total quantity of the resource added to MIDAS
charge	The charge for adding a single number of resource to a booking
requestable	Whether the resource is available for public requesting
limited_to	If the resource has been restricted to only be available to certain venues, the
	"limited_to" value contains a comma separated list of these venues

# get\_resource\_availability

Returns the quantity available of a specified resource between two dates/times

Required Parameters	Possible Values	Description
start	Valid date and time	Start time
	(Format: YYYYMMDDHHMM)	
end	Valid date and time	End time
	(Format: YYYYMMDDHHMM)	
resource	<resource name=""></resource>	Resource name
qty	Number	Quantity to check

```
Example Response
{
         "available":"2"
}
```

Variables Returned	
available	Quantity of specified resources available during times specified

## get\_setting

#### Returns a current MIDAS setting

Required Parameters	Possible Values	Description
setting	<setting name=""></setting>	Setting name. See Appendix B for available setting names

```
Example Response
{
     "email_sendfrom":"midas@yourorganization.com"
}
```

#### **Variables Returned**

<setting>
The current value of the specified <setting>

# get\_template

Returns the contents of a template

Required Parameters	Possible Values	Description
template name	<template name=""></template>	Template name. See below for available template names

Template Name	Description	Additional	
email	Email (General)		
email_book_confirm	Email (Booking Confirmation)	Email subject	
email_book_remind	Email (Booking Reminder)	Email subject	
email_req_approved	Email (Booking Request Approved) Email subject		
email_req_approved_m	Email (Booking Request Approved – with changes) Email subject		
email_req_rejected	Email (Booking Request Rejected/Declined) Email subject		
email_req_submitted	Email (Booking Request Submitted) Email subject		
email_inv_overdue	Email (Invoice Overdue) Email subject		
email_inv_remind	Email (Invoice Reminder) Email subject		
invoice	Invoice (Regular)		
invoice_cancellation	Invoice (Cancellation)		
payonline	Online Payments URL of external .c		
print	Print		
webrequest	Public Booking Requests URL of external .cs		
intro	Welcome Note (on login screen)		

```
Example Response
{
    "email":"
        %LOGO%*DATABASE%</b>*MIDASLOGO%
        %CONTENT%"
}
```

Variables Returned	
<template></template>	The current contents of the specified <template></template>
additional	For templates which contain an additional value in addition to the main template content (such as email templates with an additional subject line), this value is returned in the "additional" parameter

#### get\_user

#### Returns user information

Required Parameters (at least 1 required)	Possible Values	Description
user	<name></name>	User's full name
email	<email address=""></email>	User's email address

<b>Optional Parameters</b>	Possible Values	Description
match	exact   loose	Allows specifying the closeness of the match.  If match is set "exact" and "user" is set to "Joe Bloggs", only users with the name "Joe Bloggs" will be returned.  If match is set to "loose" and "user" is set to "Joe", any user named "Joe" will be returned.  If the match parameter is omitted only exact matches are returned

```
Example Response
{
      "name": "Joe Bloggs",
      "email":"joe@bloggs.com",
      "added": "25/2/2013 @ 16:49",
      "last login": "23/4/2013 @ 20:51",
      "last password change": "29/3/2013 @ 18:34",
      "last modified": "25/2/2013 @ 23:42",
      "account locked":"0",
      "failed login attempts": "0",
      "day starts at":"00",
      "day runs for": "24",
      "do_not_log_activity":"0"
      "email_calendar events":"1",
      "email messages":"0",
      "email pending notifications":"1",
      "email watch notifications":"0",
      "force pw change at login":"0",
      "suppress messages popup":"0",
      "venue group access": "Group A, Group B",
      "permissions":[
             "can add bookings": "1",
             "can add clients":"1",
             "can add day notes":"1",
             "can add historical bookings":"0",
             "can add out of hours bookings":"0",
             "can change password":"1",
             "can delete bookings": "2",
             "can_delete_clients":"1",
             "can email clients":"1",
             "can evac":"1",
             "can invoice":"1",
             "can manage_booking_types":"1",
             "can_manage_midas":"1",
             "can_manage_resources":"1",
             "can_manage_users":"1",
"can_manage_venues":"1",
"can_modify_bookings":"2",
             "can_modify_clients":"",
             "can print":"1",
             "can process requests":"1",
```

```
"can_restore_bookings":"1",
    "can_use_mymessages":"1",
    "can_view_activity_log":"1",
    "can_view_clients":"2",
    "can_view_statistics":"1"
    }
}
```

Variables Returned		
name User's name		
organization	User's email address	
added	Date/Time user was added to MIDAS	
last_login	Date/Time user last successfully logged in	
last_password_change	Date/Time user last changed their password	
last_modified	Date/Time user information was last modified	
account_locked	Indicates if the user has been suspended / locked out of MIDAS	
failed_login_attempts	The number of unsuccessful login attempt on this account since last	
	successful login	
day_starts_at	The hour (in 24-hour clock mode) the user's booking grid is displayed	
	from	
day_runs_for	The number of hours the user's booking grid displays	
do_not_log_activity	If "0" all user activity within MIDAS will be recorded in the Recent	
	Activity Log	
	If "1" user activity within MIDAS will appear in the Recent Activity Log,	
	except for logins/logouts	
	If "2" no user activity will be recorded in the Recent Activity Log	
email_calendar_events	Indicates whether reminders should also be sent to user's email as	
	calendar events	
email_messages Indicates whether messages are forwarded to user's email		
email_pending_notifications	Indicates whether new booking request notifications are forwarded to	
user's email  email watch notifications  Indicates whether watch notifications are forwarded to		
<b>email_watch_notifications</b> Indicates whether watch notifications are forwarded to user's <b>force_pw_change_at_login</b> Indicates whether user is required to change their password user's the change the		
login		
suppress_messages_popup Indicates whether the "My Messages" pop-up is suppressed (r		
suppress_messages_popup	shown) after login	
venue_group_access	Indicates which Venue Groups the user has access to in the Booking	
	Grid.	
	A value of "*" indicates user can view all Venue Groups	
permissions	The various permissions associated with the user account. Most take a	
	value of either "1" meaning user has been granted a permission, "0"	
	meaning the user does not have a permission. Permissions with	
	additional possible values are indicated.	
can_add_bookings	User can add bookings.	
	"0" indicates user may not make bookings	
	"1" indicates user may make bookings	
and add the sta	"2" indicates user may only make booking requests	
can_add_clients	User can add dients	
can_add_day_notes	Use can add hookings for dates	
can_add_historical_bookings	User can add bookings for dates occurring in the past	
can_add_out_of_hours_bookings	User can add bookings outside of a venue's operating hours	
can_change_password	User can change their password	
can_delete_bookings	User can delete bookings	

	"0" indicates user cannot delete any bookings	
	"1" indicates user may delete only those bookings originally added by	
	them	
	"2" indicates user may delete any booking	
can_delete_clients	User can delete clients	
can_email_clients	User can email clients directly from MIDAS	
can_evac	User can print Emergency Evacuation data	
can_invoice	User can use invoicing	
can_manage_booking_types	User can manage Booking Types	
can_manage_midas	User can manage MIDAS	
can_manage_resources	User can manage Resources	
can_manage_users	User can manage Users & Permissions	
can_manage_venues	User can manage Venues	
can_modify_bookings	User can modify bookings	
	"0" indicates user cannot modify any bookings	
	"1" indicates user may modify only those bookings originally added by	
	them	
	"2" indicates user may modify any booking	
can_modify_clients	User can modify clients	
can_print	User can use print functions	
can_process_requests	User can approve/reject pending booking requests	
can_restore_bookings	User can restore previously deleted bookings	
can_use_mymessages	Use can use My Messages (Messages, Reminders, and Watches)	
can_view_activity_log	Use can access the Recent Activity log	
can_view_clients	User can view client information	
	"0" indicates user cannot view any client data	
	"1" indicates user can view client and organization names only	
	"2" indicates user can view full client info for any client	
	"3" indicates user can only view full client into for clients they've added	
	· · · · · · · · · · · · · · · · · · ·	
	bookings for	

#### get\_venue

#### Returns venue information

Required Parameters	Possible Values	Description
venue	<venue name=""></venue>	Venue name

<b>Optional Parameters</b>	Possible Values	Description
match	exact   loose	Allows specifying the closeness of the match.  If match is set "exact" and "venue" is set to "Meeting Room", only the venue with the name "Meeting Room" will be returned.  If match is set to "loose" and "venue" is set to "Meeting
		Room", any venue containing the name "Meeting Room", such as "Meeting Room A", "Meeting Room B", etc will be returned.  If the match parameter is omitted only exact matches are returned

```
Example Response
[
      "venue": "Room 1",
      "capacity":"20",
      "description": "A small meeting room",
      "requestable":"1",
      "rates":[
            "Mon":[
                   "rate":"100.00",
                   "rate_length":"1",
                   "rate_type":"Hourly"
                   },
                   "rate":"80.00",
                   "rate length":"4",
                   "rate type": "Hourly"
                   "rate":"450.00",
                   "rate length": "6",
                   "rate type": "Booking"
            "Tue":[
                   "rate":"20.00",
                   "rate type": "Hourly"
                  ],
            "Wed":[
                   "rate":"20.00",
                   "rate_type":"Hourly"
                  ],
            "Thu":[
                   "rate":"20.00",
                   "rate_type":"Hourly"
```

```
],
      "Fri":[
             "rate":"20.00",
             "rate type": "Hourly"
      "Sat":[
             "rate":"20.00",
             "rate_type":"Hourly"
      "Sun":[
            "rate":"20.00",
            "rate_type":"Hourly"
      ],
"operating_hours":[
      "day": "Mon",
      "closed": "0000-0800,2100-2400",
      },
      "day": "Tue",
      "closed": "0000-0800, 2100-2400",
      },
      "day": "Wed",
      "closed": "0000-0800,2100-2400",
      "day":"Thu",
      "closed": "0000-0800, 2100-2400",
      "day":"Fri",
      "closed": "0000-0800, 2100-2400",
      },
      "day": "Sat",
      "closed":"0000-0930,2000-2400",
      },
      "day": "Sun",
      "closed":"0000-1000,1600-2400"
      ],
"closed_from":"",
"closed_until":"1/4/2015",
"managers": "Jane Doe, Joe Bloggs",
"member of": "Group A, Group B",
"blocks": "Room 4",
"alternatives": "Room 2, Room 3"
}
```

Variables Returned	
venue	Venue name
capacity	The maximum occupancy of the venue
description	The venue's description

Whether the venue is available for public requesting	
The room rate/hire charge for each day of the week	
Can be one of the following: "Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun" to denote	
subsequent rate information for each day of the week	
The room/rate hire charge amount	
The minimum length of the booking the rate applies to (in hours)	
f "Hourly", the rate is per-hour, if "Daily", the rate is per-day, if "Booking", the rate is	
per-booking	
The times between which the venue is closed during each day of the week	
The day of the week	
A comma separated list of the times (24 hour format) the venue is closed	
The date after which the venue is considered closed	
The date until which the venue is considered closed	
A comma separated list of user who are "Managers" of the venue i.e. can approve	
Booking Requests for the venue	
A comma separated list of Venue Groups to which the venue belongs to	
A comma separated list of venues which are automatically blocked (Unavailable) when	
this venue has an ongoing booking	
A comma separated list of venues which should be considered as alternatives to this	
venue	

## get\_venues\_in\_group

Returns a list of venues in a venue group

Required Parameters	Possible Values	Description
group	<venue group=""></venue>	Name of a venue group

```
Example Response
{
    "Group A":"Room 1, Room 2, Room3"
}
```

#### **Variables Returned**

<group name> Comma separated list of current venues in group

#### get\_venues\_in\_use

Returns a list of all venues in use at the point in time when the API call is made. If optional start and end parameters are supplied, returns a list of all venues in use between start and end parameters.

<b>Optional Parameters</b>	Possible Values	Description
start	Valid date and time	Start time
	(Format: YYYYMMDDHHMM)	
end	Valid date and time	End time
	(Format: YYYYMMDDHHMM)	

```
Example Response
{
     "venues":"Room 1,Room 2,Room3"
}
```

Variables Returned	
venues	Comma separated list of venues in use

## get\_watches

Retrieves all current watches for a specific user

Required Parameters (only 1 required)	Possible Values	Description
email	<user's email=""></user's>	User's email address
user	<user's name=""></user's>	User's name

Variables Returned	
watch	Details of the watch
expires	Date/Time at which the watch expires

#### mod\_booking

Modifies an existing booking.

Required Parameters	Possible Values	Description
id	Booking ID	The unique numeric ID of the booking to be modified

In addition, one or more of the parameters from the following table must also be included with the call. Only values for the parameters you specify will be changed. For example, to only change a booking type, whilst retaining the booking's original start, end, and venue details, only pass the "new\_type" parameter. To change the venue and the type and the venue, pass both "new\_type" and "new\_venue".

Optional Parameters (at least 1 required)	Possible Values	Description
new_start	Valid date and time The new start date/time the booking should be (Format: YYYYMMDDHHMM) to	
new_end	Valid date and time (Format: YYYYMMDDHHMM)	The new end date/time the booking should be changed to
new_venue	Venue ID   Venue Name	The numeric ID or name of the venue the booking should be changed to
new_client	Client ID	The numeric ID of the client the booking should be changed to
new_type	Booking Type ID   Booking Type Name	The numeric ID of the Booking Type, or the name of the Booking Type the booking should be changed to
new_attendees	Number	The new number of booking attendees
new_notes	String	New notes about the booking
new_resources	Quantity & Resource ID  Resource Name	New resources to be added to the booking. Values should be passed as "qty resource (ID or name)". For example, to add 2 Tables to a booking, pass "2 Tables".  This parameter can be added multiple times to add further resources  Note: Passing the "new_resources" parameter will remove any previous resources that had been assigned to the booking
<new custom="" fields=""></new>	Custom Value	If you've defined custom booking fields in your MIDAS, you can optionally specify new values for these fields for the booking you're modifying.  For example, if you have a custom field named "Insurance", you would pass the parameter "new_insurance" together with the new value you wish to set

<b>Optional Parameters</b>	Possible Values	Description
accept_limited_resources	0   1	If you're specifying new resources for a booking, this parameter determines whether the bookings should still be modified if the quantity of resources requested isn't available.  For example, if you add 10 Tables to a booking, yet only 5 Tables are available, an error will be returned and the booking won't be modified. However, passing the "accept_limited_resources" parameter with a value of "1" will continue the modify booking, but with reduced resource quantities (in the previous example,

		this would mean that only 5 Tables would be added to the booking, instead of the desired 10)
no_watches	0   1	Setting the "no_watches" parameter to "1" will suppress generation of Watch notifications for users who are monitoring modified bookings, otherwise omitting this parameter (or setting it to "0") will allow Watch notifications to be generated accordingly

```
Example Response
{
     "booking_modified":"1"
}
```

Variables Returned (on success)	
booking_modified	Returns "1" if the booking was successfully modified

Variables Returned (on error)	
error	The reason why the booking couldn't be modified. Typical examples include:
	Unavailable (clashes with an existing booking)
	Unavailable - Blocked By Meeting Room 1
	45 Attendees will exceed the maximum capacity of Meeting Room 1 (15)
	Outside Operating Hours
	Venue unavailable from 1/1/2015
	Venue unavailable between 1/1/2015-1/2/2015
	Venue not available until 1/1/2015
	Only x5 Tables Available

#### mod\_client

Modifies an existing client record.

Two sets of parameters are required (outlined in the tables below) - the first set controls which client(s) to modify, the second set specifies which parameters of the selected client(s) to modify.

#### **Controlling which client(s) to modify:**

Required Parameters (at least 1 required)	Possible Values	Description
id	Client ID	The unique numerical id of the client (which can be determined from the "get_client" call)  Passing this parameter will override all other required parameters in this table
client	String	The name of the existing client to be modified
org	String	Organization name
email	Email address	Email address
address	String	Postal/mailing address
phone	Number	Telephone number
fax	Number	Fax number
mobile	Number	Mobile/cell number
notes	String	Notes about the client

To ensure that only a single client is modified, pass only the "id" parameter, or alternatively as many of the other above parameters as possible to ensure a specific individual client is modified, rather than a group of clients. For example, if you only pass the "org" parameter alone ALL clients in the database that match the organization name you supply will be modified. Whereas passing both the client name and the organization name will ensure that only client records that match BOTH will be modified. Passing "client\_id" alone will ensure that only one client will be modified.

#### **Setting new values:**

Required Parameters (at least 1 required)	Possible Values	Description
new_client	String	The new Client name
new_org	String	The new Organization name
new_email	Email address	The new Email address
new_address	String	The new postal/mailing address
new_phone	Number	The new telephone number
new_fax	Number	The new fax number
new_mobile	Number	The new mobile/cell number
new_notes	String	New notes about the client
new_tax_exempt	0   1	Specifies whether the client is exempt from being charged tax on their invoices

Omitting any of the above parameters will leave its current value unchanged. Passing any of the above parameters with a "blank" value will clear/delete the current value of the corresponding field.

```
Example Response
{
     "clients_modified":"1"
}
```

	urned

clients\_modifed

The number of clients modified

# mod\_invoice

**Required Parameters** 

Modifies/Updates the status of an existing invoice.

**Possible Values** 

invoice	Invoice ID	The number/reference of the invoice to update
Required Parameters	Possible Values	Description
(at least 1 required)		
client	Client ID	The numeric ID of the existing client to change the invoice for. Note:
		Only unsent invoices can have their client changed
notes	String	Additional notes to appear on the invoice
paid	Decimal	The amount (without currency symbol - i.e. 100.00) of the invoice total
		already paid

Description

```
Example Response
{
    "invoice_updated":"MIDAS00075"
}
```

Variables Returned	
invoice_updated	The Invoice number/reference of the updated invoice

#### mod\_resource

Modifies an existing resource.

Required Parameters	Possible Values	Description
resource	Resource ID	The numerical ID of the existing resource to modify
Optional Parameters (at least 1 required)	Possible Values	Description
new_name	String	The new name for the existing resource
new_type	equipment   consumable   staffing	The new type (category) of the resource
new_qty	Number	The new available quantity of the resource. Passing this parameter with a blank value will reset the available quantity to "Unlimited"
new_charge	Decimal	The new charge (without currency symbol - i.e. 10.00) for the resource.  This will be a per-hour charge where the resource is of "staffing" type/category, otherwise this is a per-booking charge
new_public	0   1	Sets whether the resource is publicly requestable (can appear on the Public Booking Request screen)
new_venues	Venue IDs	A comma-separated list of Venue ID's the resource is available to. Passing this parameter with a blank value will reset the resource to be

Omitting any of the above parameters will leave its current value unchanged. Passing any of the above parameters with a "blank" value will clear/delete the current value of the corresponding field.

available to all venues

```
Example Response
{
     "resource_modified":"67"
}
```

Variables Returned	
resource_modified	The unique resource ID corresponding the modified resource

## notify\_user

Sends an internal notification to a MIDAS user.

The notification will appear in the user's "My Messages" screen, and may also be forwarded to their email address if they have configured message forwarding.

Required Parameters	Possible Values	Description	
user	User ID   User email	The numeric ID of the existing user to message, or their email address (Note: If an email address is supplied which doesn't match an existing user, the message will fail)	
message	Text	The message to send	
expires	Valid date and time (Format: YYYYMMDDHHMM)	The date/time after which the message should expire and be automatically removed from the recipient's My Messages screen (The user may choose to manually remove the message sooner)	

Optional Parameters	Possible Values	Description
type	message   reminder	Sets the type of notification to send. If omitted, the type will be set to "message"

```
Example Response
{
    "completed":"1"
}
```

Variables Returned	
completed	Returns "1" once the API call has completed

# reject\_request

Rejects/declines a booking request.

**Required Parameters** 

Possible Values

id	Booking ID	The numeric ID of the booking request to be rejected	
Optional Parameters	Possible Values	Description	
reason	String	A reason why the request is being rejected (will be included in the rejection email notification sent to the original requestor)	
silent	0   1	By default when a booking request is rejected, the original requestor is sent an email notification informing them as such. Setting "silent" to "1" will suppress the sending of this notification	

Description

```
Example Response
{
         "request_rejected":"1"
}
```

Variables Returned	
request_rejected	Returns "1" after a successful rejected

## restore\_booking

Re-instates a recently deleted booking, or bookings.

Required Parameters	Possible Values	Description
id	Booking ID	The unique numerical reference (or comma separated list of references) of the deleted booking(s) to be re-instated (which can be determined from the "get_bookings" call)

```
Example Response
{
        "restored":"925",
        "not_restored":"927,929,1024"
}
```

Variables Returned	
restored	Comma-separated list of all deleted booking references successfully
not_restored	Comma-separated list of all booking references that couldn't be restored (i.e. those which would now clash with other bookings if restored)

## set\_setting

Changes the value of a current MIDAS setting

Required Parameters	Possible Values	Description	
setting	<setting name=""></setting>	Setting name. See Appendix B for available setting names	
value	<new value=""></new>	The new value for the setting	

```
Example Response
{
    "response":"ok"
}
```

Variables Returned	
response	Returns "ok" after a successful setting change

# set\_template

#### Set/Modify a template

Required Parameters	Possible Values	Description	
template name	<template name=""></template>	Template name. See below for available template names	
content	Text	New HTML template content	

<b>Optional Parameters</b>	Possible Values	Description	
additional	String	For templates where an additional value can be set (such as email templates where a subject line may be specified), this new value can be passed via the "additional" parameter. See below for which templates support this parameter	

Template Name	Description	Additional
email	Email (General)	
email_book_confirm	Email (Booking Confirmation)	Email subject
email_book_remind	Email (Booking Reminder)	Email subject
email_req_approved	Email (Booking Request Approved)	Email subject
email_req_approved_m	Email (Booking Request Approved – with changes)	Email subject
email_req_rejected	Email (Booking Request Rejected/Declined)	Email subject
email_req_submitted	Email (Booking Request Submitted)	Email subject
email_inv_overdue	Email (Invoice Overdue)	Email subject
email_inv_remind	Email (Invoice Reminder)	Email subject
invoice	Invoice (Regular)	
invoice_cancellation	Invoice (Cancellation)	
payonline	Online Payments	URL of external .css file
print	Print	
webrequest	Public Booking Requests	URL of external .css file
intro	Welcome Note (on login screen)	

Example F	Example Response		
{ ""	response":"ok"		
}	-		

Variables Returned	
response	Returns "ok" after a successful template change

# util\_from\_epoch

**Required Parameters** 

Converts epoch seconds to a standard date/time format

**Possible Values** 

data	Epoch seconds	Epoch seconds to convert
Optional Parameters	Possible Values	Description
format	1   0	If omitted (or "0"), the returned date/time string will be in the format "YYYYMMDDHHMM".  If "1", the returned date/time string will reflect the current time/date format settings in MIDAS, for instance, "DD/MM/YYYY @ HH:MM"

**Description** 

```
Example Response
{
     "response":"201305121008"
}
```

Variables Returned	
response	The converted epoch time, returned in a date/time format specified by the "format" parameter. If no "format" parameter specified, response is returned as "YYYYMMDDHHMM"

# util\_to\_epoch

Converts a date/time to epoch seconds

Required Parameters	Possible Values	Description
data	Valid date and time	Date/Time string to convert to epoch seconds
	(Format: YYYYMMDDHHMM)	

```
Example Response
{
     "response":"1357066800"
}
```

Variables Returned	
response	The converted date/time, returned as epoch seconds

# Appendix A – Activity Codes

The following codes may be used in conjunction with the "get\_activity" call

ADDU User added booking between the group Venue Venue Group Color	CODE	Description	Data1	Data2	Data3	Data4
ADDRU User added evnue fo group Venue Venue Group ADDR User added client ADDI User added venue ADDU User added venue ADDU User added venue ADDU User added venue ADDU User added venue ADDV User deleted booking ADDR DELL ADRE User deleted venue ADDR DELL ADRE ADDR DELL ADR DELL ADRE ADDR DELL ADR DELL ADDR DELL ADR DELL ADR DELL ADR DELL ADR DELL ADR DELL ADR DELL A	ADD	User added booking	Date/Time			
ADDET User added booking type	ADD2VG		· · · · · · · · · · · · · · · · · · ·	Venue Group		
ADDIC User added client   Client   Organization   ADDI User roated invoice   Resource   Resource   ADDU User added Vere   Name   Email   ADDV User added Verue   Venue   ADDV User added venue   Venue Group   ADDV User added venue   Venue Group   ADDV User added venue   Venue Group   ADDV User added venue group   Venue Group   ADDV User deleted booking   Date/Time   DELB User deleted booking   Date/Time   DELB User deleted client   Client   Organization   DELB User deleted venue   Venue   DELW User deleted venue   Venue   DELW User deleted venue group   Venue Group   EMS   User sent email   Client   Invoice   EMS   User sent email   Client   Invoice   EXPR   User exported bookings   EXPR   User exported invoice   Client   Invoice   EXPR   User exported invoice   Client   EXPR   User exported invoice   Client   Invoice   GENIC   User generated invoice (Regular)   GENIC   User generated invoice (Cancellation)   Invoice   IN User generated invoice (Cancellation)   Invoice   IN User generated invoice (Cancellation)   Invoice   IN User modified booking   Date/Time   MODD   User modified User   Name   Email   MODU   User modified Venue   Venue   Venue   MODPATE   Payrent received   Invoice   Payer name   Payer email   Transaction   PAYIP   Payment received   Invoice   Payer name   Payer email   Transaction   PAYIP   Payment received   Invoice   Payer name   Payer email   Transaction   PAYIP   Payment received   Invoice   Payer name   Payer email   Transaction   PAYIP   Partial payment received   Invoice   Payer name   Payer email   Transaction   PAYIP			Type	· · · · · · · · · · · · · · · · · · ·		
ADDIE User added resource Resource ADDU User added User Name Email ADDV User added venue Venue Venue ADDV User added venue group Venue Group BRUP MIDAS backup (Automatic) CARN Booking request cancelled Client Organization DELB User deleted booking Date/Time DELB User deleted booking Date/Time DELB User deleted dient Client Organization DELB User deleted venue Venue DELW User deleted venue Venue DELW User deleted venue Group Venue Group EMS User sent email Irvoice Client Invoice EMSI User sent email Irvoice Client Invoice EMSI User sent email Irvoice Client Invoice EXPR User exported bookings EXPR User exported invoice summaries EXPR User exported invoice (Regular) EXPR User generated invoice (Regular) IN User Des Group Clients EXPR User generated invoice (Regular) IN User Des Group Clients IN User Des Group Clients MARUP MIDAS backup (Manual) MOD User modified booking Date/Time MODBU User modified booking Date/Time MODBU User modified booking Date/Time MODBU User modified venue Client Client Organization MODBU User modified venue Client Client Organization MODU User modified venue Venue Model Venue Payer email Transaction Depart Payer email Transaction Depart Payer printed Imegency Venue Venue Payer email Transaction Depart Payer printed Invoice Client Invoice MODEL Venue Group MODU User reared venue group Prev	ADDC			Organization		
ADDU User added venue Venue Venue ADDVC User added venue group Venue Group Venue Group BRUP MIDAS backup (Automatic) CANR BOoking request cancelled Client Organization DELB User deleted booking Date/Time DELB User deleted booking type Type DELC User deleted booking type Type DELC User deleted invoice Invoice DELNES User deleted work of the Warney State of the Warn	ADDI	User created invoice	Invoice			
ADDV User added venue Venue Group  ADDVO User added venue group Venue Group  BKUP MIDAS backup (Automatic)  CANR Booking request cancelled Client Organization  DELB User deleted booking type Type  DELC User deleted booking type Type  DELC User deleted invoice Invoice  DELI User deleted invoice Invoice  DELI User deleted Resource Resource  DELI User deleted venue Venue  DELVG User deleted venue Venue  DELVG User deleted venue Group Venue Group  EMS User sent email Invoice Client Invoice  EMS User sent email Invoice Client Invoice  EMPB User sent email Invoice Client Invoice  EXPR User exported invoice summaries  EXPR User exported invoice (Segular)  GENIC User exported invoice (Segular)  GENIC User generated invoice (Regular)  GENIC User generated invoice (Regular)  MBKUP MIDAS backup (Manual)  MBCD User modified booking Date/Time  MODB User modified booking Perevious Type Previous Color New Type New Color  MODB User modified tooking Client Client Client Organization  MODB User modified booking Date/Time  MODB User modified tooking Perevious Type Previous Color New Type New Color  MODD User modified tooking Perevious Type Previous Color New Type New Color  MODB User modified tooking Date/Time Organization  MODB User modified User Name Email  MODB User modified User Name Email  MODB User modified User Name Payer email Transaction ID  PAYIP Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Payment received in full Invoice Payer name Payer email Transa			Resource			
ADDVG	ADDU	User added User	Name	Email		
ADDVG   User added venue group   Venue Group   RKUP   MIDAS backup (Automatic)   Client   Organization   DELBT   User deleted booking type   Type   DELC   User deleted deleth   Client   Organization   DELBT   User deleted booking type   Type   DELC   User deleted deleth   Client   Organization   DELBT   User deleted booking type   Type   DELC   User deleted fivorice   Invoice   Invoice   DELBT   User deleted venue   Venue   Venue   DELVG   User deleted venue   Venue   Venue   DELVG   User deleted venue group   Venue Group   Venue Group   User deleted venue group   Venue Group   User deleted venue group   Venue Group   User sent email   Client   Invoice   User sent email invoice   Client   Invoice   User exported bookings   User exported voice summaries   User exported voice summaries   User exported invoice summaries   User exported invoice (Cancellation)   Invoice   User generated invoice (Cancellation)   Invoice   User modified booking   Date/Time   Date	ADDV	User added venue	Venue			
BRUP MIDAS backup (Automatic) CANR Booking request cancelled Client Organization DELB User deleted booking Date/Time DELDT User deleted booking type Type DELC User deleted elient Client Organization  DELL User deleted leint Client Organization  DELL User deleted feel Client Organization  DELL User deleted feelow Client Organization  DELL User deleted word  DELVG User deleted venue Venue  DELVG User deleted venue Yenue  DELVG User deleted venue Group Venue Group  EMS User sent email Invoice Client Invoice  EMSI User sent email invoice Client Invoice  EMPI User sent email invoice Client Invoice  EXPR User exported delents  EXPR User exported dionts  EXPR User exported invoice (Regular)  GENI User generated invoice (Regular) Invoice  GENI User generated invoice (Gancellation) Invoice  GENI User generated invoice (Gancellation) Invoice  GENI User generated invoice (Cancellation) Invoice  GENI User modified booking type Previous Type Previous Color New Type New Color  MODBT User modified invoice  MODBT User modified lient Client Organization  MODU User modified Wenue Name  MODU User modified Venue Venue  MODU User modified Venue Name Email  PAYIP Payment received Client Organization  PAYIP Payment received Inful Invoice Payer name Payer email Transaction ID  PAYIP Payment received Inful Invoice Payer name Payer email Transaction ID  PAYIP Payment received Inful Invoice Payer name Payer email Transaction ID  PAYIP Payment received Inful Invoice Payer name Payer email Transaction ID  PAYIP Payment received Inful Invoice Payer name Payer email Transaction ID  PAYIP Payment received Inful Invoice Payer name Payer email Transaction ID  PERD User printed Emergency Evacuation Data Date/Time Client Invoice  PRENT User printed Emergency Evacuation Data Date/Time Client Invoice  PRENT User printed Emergency Evacuation Data Date/Time Client Invoice  PRENT User printed Emergency Evacuation Pare Venue V	ADDVG	User added venue group	Venue Group			
Delignorm   Delignorm   Date/Time   Date/Time   Delignorm   Deli	BKUP	· ,				
DELB   User deleted booking   Date/Time   DELC   User deleted dient   Client   Organization   Client   Organization   DELC   User deleted dient   Client   Organization   DELC   User deleted venue   Venue   DELV   User deleted venue group   Venue Group   DELC   User deleted venue group   Venue Group   DELC   User sent email   Client   Subject   DELC   User sent email invoice   Client   Invoice   DELC   User exported clients   DEC   User exported clients   DEC   User exported clients   DEC   User exported clients   DEC   D	CANR		Client	Organization		
DELIX   User deleted client	DELB		Date/Time			
DELC User deleted client	DELBT	-	· · · · · · · · · · · · · · · · · · ·			
DELL User deleted invoice Resource Venue Venue Venue Venue Venue Venue Venue Venue Suber deleted venue group Venue Group EMS User sent email invoice Client Invoice EMS User sent email invoice Client Invoice EXPB User exported bookings EXPC User exported clients Vere exported clients Vere exported invoice (Regular) Venue Vere generated invoice (Regular) Invoice User generated invoice (Regular) Invoice User generated invoice (Regular) Invoice IN User logged in MIDAS backup (Manual) Date/Time Desource MODD User modified booking Date/Time Organization MODI User modified dient Client Organization MODI User modified Resource Resource NODU User modified Vere Name Email MREATE NAME AND User modified Vere Name Email MREATE NAME AND User modified Vere Name Payer email Transaction ID PAYIF Payment received Client Organization OUT User logged out New Payip Date/Time Client Reason Date/Time Client Reason Date/Time User printed Emergency Evacuation Date PRNAT User printed Emergency Evacuation Date PRNAT User printed Emergency Evacuation Date/Time Client Reason Date/Time Client Resource PRNATUS Description Date/Time Client Reason User printed Emergency Evacuation Date PRNATUS User printed Emergency Evacuation Date/Time Client Reason User printed Emergency Evacuation Date/Time	DELC			Organization		
DELV User deleted venue group Venue Group  EMS User sent email Client Subject  EMSI User sent email Client Invoice  EMSI User sent email invoice Client Invoice  EXPB User exported bookings  EXPC User exported clients  EXPIS User exported invoice (Regular)  EXPR User exported invoice (Regular)  EXPR User exported invoice (Regular)  Invoice  IN User generated invoice (Regular)  IN User generated invoice (Cancellation)  IN User generated invoice (Cancellation)  MOD User modified booking  Date/Time  MODET User modified booking type Previous Type Previous Color New Type New Color  MODI User modified invoice  IN User modified dent Client Organization  MODI User modified venue  MODU User modified venue  MODU User modified venue  Venue  MREST User exported a MIDAS backup  Date/Time  OUT User logged out  PAYIF Payment received in full  PAYIP Payment received in full  PAYIP Payrent received Invoice  Invoice Payer name Payer email Transaction ID  PAYIP Payrent received Invoice  Invoice Payer name Payer email Transaction ID  PEED User printed Emergency Evacuation Data  PENA User perinted Emergency Evacuation Data  PENA User printed Emergency Evacuation Data  PENA User restored booking Date/Time Client  PERMI User printed booking Date/Time Client  PERMI User printed booking Date/Time Client  PERMI User restored boo	DELI	User deleted invoice	Invoice			
DELVG EMS User sent email User sent email invoice Client User sent email invoice Client  EXPB User exported bookings EXPC User exported clients EXPC User exported resources EXPR User exported resources GENI User generated invoice (Regular) Invoice IN User generated invoice (Regular) IN User generated invoice (Cancellation) IN User generated invoice (Cancellation) IN User generated invoice (Cancellation) IN User logged in MBRUP MIDAS backup (Manual) MOD User modified booking Date/Time MODBT User modified booking type Previous Type Previous Color MODC User modified invoice Invoice Invoice Invoice Invoice MODRS User Modified Resource MODU User modified uvoice Invoice Invoi	DELRES	User Deleted Resource	Resource			
EMS User sent email invoice Client Invoice  EXPB User sexpreted bookings  EXPC User exported clients  EXPR User exported direvoice summaries  EXPR User exported invoice summaries  EXPR User exported resources  GENI User generated invoice (Regular) Invoice  GENIC User generated invoice (Cancellation) Invoice  IN User logged in  MIDAS backup (Manual)  MOD User modified booking Date/Time  MODB User modified booking type Previous Type Previous Color New Type New Color  MODI User modified invoice  MODI User modified invoice Invoice  MODIU User modified user Resource  MODIU User modified User Name Email  MODV User modified venue Venue  MREST User Restored a MIDAS backup Date/Time  OUT User logged out  PAYIF Payment received Client Organization  PAYIF Payment received Invoice Payer name Payer email Transaction ID  PEED User printed Emergency Evacuation Data  PENA User approved booking Date/Time Client  PENA User printed Emergency Evacuation Data  PENA User printed Booking Date/Time Client  PENA User restored booking Print Title  PENA User restored Booking Print Title  PENA User restored Booking Print Title  User changed password  User restored booking Previous Venue Group  Pervious						
EMSI User exported bookings EXPC User exported clients EXPS User exported clients EXPS User exported clients EXPR User exported invoice summaries EXPR User exported resources GENI User generated invoice (Regular) Invoice IN User logged in MBKUP MIDAS backup (Manual) MOD User modified booking type MODBT User modified booking type Previous Type MODI User modified lient Client Organization MORES User Modified Resource MODI User modified sesource MODI User modified User MODI User modified Sesource Resource MODI User modified venue Venue MORES User Restored a MIDAS backup Date/Time  NEWR Booking request received Client Organization OUT User logged out PAYIF Payment received in full PAYIF Payment received in full PAYIF Payment received in lull Invoice Payer name Payer email Transaction ID PEED User printed Emergency Evacuation Data PENA User approved booking Date/Time Client PENT User printed Emergency Evacuation Data PENT User printed Emergency Evacuation Data PENT User printed Dookings Print Title PRNT User printed bookings Print Title PRNT User printed bookings Print Title PRNT User rejected Dooking PENT User remailed Venue Previous Venue Venue Group REMFVG User removed venue from group Perious Venue Venue Group REMFVG User removed venue from group Previous Venue Group REMFVG User remamed venue group Previous Venue Group REMFVG User remamed venue group Previous Venue Group REMFVG User remailed venue group Previous Venue Group REMFVG User remailed venue Group Previous Venue Group	DELVG	User deleted venue group	Venue Group			
EMSI User exported bookings EXPC User exported clients EXPS User exported clients EXPS User exported clients EXPR User exported invoice summaries EXPR User exported resources GENI User generated invoice (Regular) Invoice IN User logged in MBKUP MIDAS backup (Manual) MOD User modified booking type MODBT User modified booking type Previous Type MODI User modified lient Client Organization MORES User Modified Resource MODI User modified sesource MODI User modified User MODI User modified Sesource Resource MODI User modified venue Venue MORES User Restored a MIDAS backup Date/Time  NEWR Booking request received Client Organization OUT User logged out PAYIF Payment received in full PAYIF Payment received in full PAYIF Payment received in lull Invoice Payer name Payer email Transaction ID PEED User printed Emergency Evacuation Data PENA User approved booking Date/Time Client PENT User printed Emergency Evacuation Data PENT User printed Emergency Evacuation Data PENT User printed Dookings Print Title PRNT User printed bookings Print Title PRNT User printed bookings Print Title PRNT User rejected Dooking PENT User remailed Venue Previous Venue Venue Group REMFVG User removed venue from group Perious Venue Venue Group REMFVG User removed venue from group Previous Venue Group REMFVG User remamed venue group Previous Venue Group REMFVG User remamed venue group Previous Venue Group REMFVG User remailed venue group Previous Venue Group REMFVG User remailed venue Group Previous Venue Group	EMS	User sent email	Client	Subject		
EXPC User exported clients EXPIS User exported invoice summaries EXPR User exported invoice (Regular) EXPR User exported resources GENI User generated invoice (Regular) Invoice  GENIC User generated invoice (Cancellation) IN User logged in MIDAS backup (Manual) MOD User modified booking MODBT User modified booking Date/Time MODI User modified invoice Invoice MODBT User modified invoice Invoice MODBT User modified invoice Invoice MODBT User modified looking type Previous Type Previous Color New Type New Color MODI User modified invoice Invoice MODBT User modified User MODI User modified venue Invoice MODBT User modified User MODIU User modified bear Name Email MODIU User modified venue Invoice MODIU User modified venue Invoice Invoic	EMSI	User sent email invoice		•		
EXPC User exported clients EXPIS User exported invoice summaries EXPR User exported invoice (Regular) EXPR User exported resources GENI User generated invoice (Regular) Invoice  GENIC User generated invoice (Cancellation) IN User logged in MIDAS backup (Manual) MOD User modified booking MODBT User modified booking Date/Time MODI User modified invoice Invoice MODBT User modified invoice Invoice MODBT User modified invoice Invoice MODBT User modified looking type Previous Type Previous Color New Type New Color MODI User modified invoice Invoice MODBT User modified User MODI User modified venue Invoice MODBT User modified User MODIU User modified bear Name Email MODIU User modified venue Invoice MODIU User modified venue Invoice Invoic						
EXPR User exported invoice summaries EXPR User exported resources   Invoice   GENIC User generated invoice (Regular)   Invoice   GENIC User generated invoice (Cancellation)   Invoice   IN User logged in   Invoice   IN User logged in   Invoice   IN User modified booking   Date/Time   Invoice   MODBT User modified booking type   Previous Type   Previous Color   New Type   New Color   MODD User modified booking type   Previous Type   Previous Color   New Type   New Color   MODD User modified lient   Client   Organization   MODBT User modified Resource   Resource   Invoice   MODDU User modified User   Name   Email   MODV User modified User   Name   Email   MODV User modified venue   Venue   MREST   User Restored a MIDAS backup   Date/Time   NEWR Booking request received   Client   Organization   PAYIF   Payment received in full   Invoice   Payer name   Payer email   Transaction ID   PAYIF   Payment received in full   Invoice   Payer name   Payer email   Transaction ID   PAYIP   Partial payment received   Invoice   Payer name   Payer email   Transaction ID   PEED   User printed Emergency Evacuation Data   PENA   User approved booking   Date/Time   Client   Reason   PENR   User printed booking   Date/Time   Client   Reason   PRNT   User printed invoice   Client   Invoice   PWC   User changed password   Client   Invoice   REMIFYG   User removed venue from group   Venue   Venue Group   REMIFYG   User restored booking   Date/Time   Date/Time   Date/Time   Client   RENVG   User renamed venue group   Previous Venue Group   New Venue Group   REST   User restored booking   Date/Time   Dat						
EXPR User exported resources GENI User generated invoice (Regular) Invoice IN User generated invoice (Cancellation) Invoice IN User logged in MBKUP MIDAS backup (Manual) MOD User modified booking Date/Time MODB User modified booking type Previous Type Previous Color MODB User modified booking type Previous Type Previous Color MODD User modified lient Client Organization MODI User modified Resource Invoice MODB User modified User Name Email  Fara Booking request received Client Organization  OUT User logged out PAYIF Payment received in full PAYIP Partial payment received Invoice Payer name Payer email PENA User approved booking Date/Time Client Date/Time Client Draver name Payer email Payer email PENA User printed Emergency Evacuation Data PENA User printed booking Date/Time Client Date/Time Client PAYIP Partial payment received Date/Time Client PENR User printed booking Date/Time Client PENR User printed booking Date/Time Client PENR User printed booking Date/Time Client PRNT User printed booking Date/Time Client PRNT User printed invoice Client PRNT User printed invoice Client PRNT User printed invoice User changed password REMIFVG User removed venue from group Venue Venue Group REMU User restored booking Date/Time Date/Time Previous Venue Group REMIO User restored booking Previous Venue Group REST User restored booking Date/Time Date/Time Previous Venue Group New Venue Group	EXPIS	·				
GENIC User generated invoice (Cancellation) Invoice IN User logged in MIDAS backup (Manual) MOD User modified booking Date/Time MODBT User modified booking type Previous Type Previous Color New Type New Color MODC User modified dient Client Organization MODU User modified invoice Invoice MODRES User Modified Resource Resource MODU User modified User Name Email MODV User modified venue Venue MREST User Restored a MIDAS backup Date/Time NEWT Booking request received Client Organization  MOUT User logged out PAYIF Payment received in full Invoice Payer name Payer email Transaction ID PAYIP Partial payment received Invoice Payer name Payer email Transaction ID PEED User printed Emergency Evacuation Data PENA User approved booking Date/Time Client Reason PRNT User printed bookings Print Title PRNT User printed bookings Print Title PRNT User printed Invoice Client Invoice PREMO User changed password REMIV User removed venue from group Venue Venue Group RENG User removed venue from group Previous Venue Group RENG User restored booking Previous Venue Group RENG User renamed venue group Previous Venue Group REST User restored booking Date/Time New Venue Group	EXPR	·				
GENIC User generated invoice (Cancellation) Invoice  IN User logged in User modified booking Date/Time  MODD User modified booking type Previous Type Previous Color New Type New Color  MODET User modified dient Client Organization  MODI User modified dinvoice Invoice  MODRES User Modified Resource Resource  MODU User modified venue Venue  MREST User Restored a MIDAS backup Date/Time  NEWR Booking request received Client Organization  OUT User logged out  PAYIF Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Partial payment received Invoice Payer name Payer email Transaction ID  PEED User printed Emergency Evacuation Data  PENA User rejected booking Date/Time Client Reason  PRNT User printed booking Print Title  PRNT User printed invoice Client Invoice PRNT User rejected booking Print Title  PRNT User printed invoice Client Invoice PRNT User removed venue from group Venue Venue Group  REMU User deleted User Name Email  RENVG User removed venue from group Previous Venue Group  REST User restored booking Date/Time Client Reason  PRNTU User printed invoice Client Invoice PRMC User removed venue from group Previous Venue Group New Venue Group  RESST User restored booking Previous Venue Group New Venue Group	GENI	·	Invoice			
IN User logged in  MBKUP MIDAS backup (Manual)  MOD User modified booking type Previous Type Previous Color New Type New Color  MODBT User modified client Client Organization  MODI User modified rivoice Invoice  MODRES User Modified Resource Resource  MODU User modified User Name Email  MODU User modified venue Venue  MREST User Restored a MIDAS backup Date/Time  NEWR Booking request received Client Organization  OUT User logged out  PAYIF Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Partial payment received Invoice Payer name Payer email Transaction ID  PEED User printed Emergency Evacuation Data  PENA User approved booking Date/Time Client  PRNT User printed bookings Print Title  PRNT User printed invoice Client Invoice Invoice  PRNT User printed invoice Client Invoice  PRNT User printed invoice Client Invoice  PWC User changed password  REMU User deleted User Name Email  RENVG User removed venue from group Venue Venue Group  REST User restored booking Date/Time Client  Previous Venue Group New Venue Group  Previous Venue Group New Venue Group  Previous Venue Group New Venue Group  PREST User restored booking Date/Time New Venue Group	GENIC		Invoice			
MBKUP MIDAS backup (Manual)  MOD User modified booking Date/Time Previous Color New Type New Color  MODE User modified client Client Organization  MODU User modified client Invoice Invoice  MODIU User modified Resource Resource  MODU User modified User Name Email  MODU User modified Venue Venue  MREST User Restored a MIDAS backup Date/Time  NEWR Booking request received Client Organization  PAYIF Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Partial payment received Invoice Payer name Payer email Transaction ID  PEED User printed Emergency Evacuation Data  PENA User approved booking Date/Time Client Reason  PRNT User printed bookings Print Title  PRNT User printed invoice Client Invoice Invoice Invoice PRINT User printed invoice Client Invoice Invoice Invoice PRINT User Printed Invoice Client Invoice PRINT User removed venue from group Venue Venue Group REMU User removed venue from group Previous Venue Group REMU User reamed venue group Previous Venue Group Invoice PRINT User restored booking Date/Time	IN					
MOD         User modified booking         Date/Time         Previous Type         Previous Color         New Type         New Color           MODE         User modified booking type         Previous Type         Previous Color         New Type         New Color           MOD         User modified client         Client         Organization         Organization           MODW         User modified User         Name         Email           MODV         User modified venue         Venue         Particle           MREST         User Restored a MIDAS backup         Date/Time         Date/Time           NEWR         Booking request received         Client         Organization           OUT              User logged out         Out         Payer email         Transaction ID           PAYIF         Payment received in full         Invoice         Payer name         Payer email         Transaction ID           PEED         User printed Emergency Evacuation Data         Date/Time         Client         Reason           PERN         User approved booking         Date/Time         Client         Reason           PRNT         User printed bookings         Print Title         Print Title         Print Title         Previous Venue Group           PRNTI         <	MBKUP					
MODC       User modified client       Client       Organization         MODI       User modified invoice       Invoice         MODW       User Modified Resource       Resource         MODU       User modified User       Name       Email         MODV       User modified Venue       Venue         MODV       User Restored a MIDAS backup       Date/Time         NEWR       Booking request received       Client       Organization         OUT       User logged out       Out       Payer name       Payer email       Transaction ID         PAYIF       Payment received in full       Invoice       Payer name       Payer email       Transaction ID         PAYIP       Partial payment received       Invoice       Payer name       Payer email       Transaction ID         PEED       User printed Emergency Evacuation Data       Date/Time       Client       Reason         PENA       User rejected booking       Date/Time       Client       Reason         PRNT       User printed invoice       Client       Invoice         PRNTI       User printed invoice       Client       Invoice         PWC       User changed password       Invoice       Invoice       Invoice       Print Title	MOD		Date/Time			
MODI       User modified invoice       Invoice         MODRES       User Modified Resource       Resource         MODU       User modified User       Name       Email         MODV       User modified venue       Venue         MREST       User Restored a MIDAS backup       Date/Time         NEWR       Booking request received       Client       Organization         OUT       User logged out       Toransaction ID         PAYIF       Payment received in full       Invoice       Payer name       Payer email       Transaction ID         PAYIP       Partial payment received       Invoice       Payer name       Payer email       Transaction ID         PEED       User printed Emergency Evacuation Data       User Payer name       Payer email       Transaction ID         PENA       User approved booking       Date/Time       Client       Reason         PENT       User printed booking       Date/Time       Client       Reason         PRNTI       User printed invoice       Client       Invoice         PWC       User changed password       Invoice       Invoice         REMFVG       User removed venue from group       Venue       Venue Group         REMU       User deleted User	MODBT	User modified booking type	Previous Type	Previous Color	New Type	New Color
MODRES       User Modified Resource       Resource         MODU       User modified User       Name       Email         MODV       User modified venue       Venue         MREST       User Restored a MIDAS backup       Date/Time         NEWR       Booking request received       Client       Organization         OUT       User logged out       Outh organization       Payer email       Transaction ID         PAYIF       Payment received in full       Invoice       Payer name       Payer email       Transaction ID         PAYIP       Partial payment received       Invoice       Payer name       Payer email       Transaction ID         PEED       User printed Emergency Evacuation Data       Date/Time       Client       Reason         PENA       User approved booking       Date/Time       Client       Reason         PRNT       User printed bookings       Print Title       Print Title       Print Title         PRNTI       User printed invoice       Client       Invoice       Invoice         PRMTI       User changed password       Print Title       Print Title       Print Title       Print Title         PRMTI       User removed venue from group       Venue       Venue Group       Venue Group	MODC	User modified client	Client	Organization		
MODU User modified User Name Email	MODI	User modified invoice	Invoice			
MODV       User modified venue       Venue       MREST       User Restored a MIDAS backup       Date/Time         NEWR       Booking request received       Client       Organization         OUT       User logged out       Payer email       Transaction ID         PAYIF       Payment received in full       Invoice       Payer name       Payer email       Transaction ID         PAYIP       Partial payment received       Invoice       Payer name       Payer email       Transaction ID         PEED       User printed Emergency Evacuation Data       Date/Time       Client         PENA       User approved booking       Date/Time       Client       Reason         PENR       User rejected bookings       Print Title       Print Title       Print Title       Print Title         PRNTI       User printed invoice       Client       Invoice       Invoice         PWC       User changed password       Venue Group       Venue Group         REMFVG       User removed venue from group       Venue       Venue Group       New Venue Group         REST       User restored booking       Date/Time       New Venue Group	MODRES	User Modified Resource	Resource			
MREST     User Restored a MIDAS backup     Date/Time       NEWR     Booking request received     Client     Organization       OUT     User logged out     Favored and the paper of	MODU	User modified User	Name	Email		
NEWR       Booking request received       Client       Organization         OUT       User logged out       Payer name       Payer email       Transaction ID         PAYIF       Payment received in full       Invoice       Payer name       Payer email       Transaction ID         PAYIP       Partial payment received       Invoice       Payer name       Payer email       Transaction ID         PEED       User printed Emergency Evacuation Data       Date/Time       Client         PENA       User approved booking       Date/Time       Client       Reason         PRNT       User rejected bookings       Print Title       Print Title       Print Title       Print Title         PRNTI       User printed invoice       Client       Invoice       Invoice         PWC       User changed password       Venue Group       Venue Group         REMFVG       User removed venue from group       Venue       Venue Group       New Venue Group         RENVG       User renamed venue group       Previous Venue Group       New Venue Group         REST       User restored booking       Date/Time	MODV	User modified venue	Venue			
OUT User logged out  PAYIF Payment received in full Invoice Payer name Payer email Transaction ID  PAYIP Partial payment received Invoice Payer name Payer email Transaction ID  PEED User printed Emergency Evacuation Data  PENA User approved booking Date/Time Client  PENR User rejected booking Date/Time Client Reason  PRNT User printed bookings Print Title  PRNTI User printed invoice Client Invoice  PWC User changed password  REMFVG User removed venue from group Venue Venue Group  REMU User deleted User Name Email  RENVG User renamed venue group Previous Venue Group  REST User restored booking Date/Time	MREST	User Restored a MIDAS backup	Date/Time			
PAYIFPayment received in fullInvoicePayer namePayer emailTransaction IDPAYIPPartial payment receivedInvoicePayer namePayer emailTransaction IDPEEDUser printed Emergency Evacuation DataDate/TimeClientPENAUser approved bookingDate/TimeClientReasonPRNTUser printed bookingsPrint TitlePrint TitlePRNTIUser printed invoiceClientInvoicePWCUser changed passwordInvoiceInvoiceREMFVGUser removed venue from groupVenueVenue GroupREMUUser deleted UserNameEmailRENVGUser renamed venue groupPrevious Venue GroupNew Venue GroupRESTUser restored bookingDate/Time	NEWR	Booking request received	Client	Organization		
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PENA       User approved booking       Date/Time       Client         PENR       User rejected booking       Date/Time       Client       Reason         PRNT       User printed bookings       Print Title         PRNTI       User printed invoice       Client       Invoice         PWC       User changed password       Venue       Venue Group         REMFVG       User removed venue from group       Venue       Venue Group         REMU       User deleted User       Name       Email         RENVG       User renamed venue group       Previous Venue Group       New Venue Group         REST       User restored booking       Date/Time	PAYIP	Partial payment received	Invoice	Payer name	Payer email	Transaction ID
PENR     User rejected booking     Date/Time     Client     Reason       PRNT     User printed bookings     Print Title       PRNTI     User printed invoice     Client     Invoice       PWC     User changed password     Print Title       REMFVG     User removed venue from group     Venue     Venue Group       REMU     User deleted User     Name     Email       RENVG     User renamed venue group     Previous Venue Group     New Venue Group       REST     User restored booking     Date/Time	PEED	User printed Emergency Evacuation Data				
PRNT       User printed bookings       Print Title         PRNTI       User printed invoice       Client       Invoice         PWC       User changed password       Venue         REMFVG       User removed venue from group       Venue       Venue Group         REMU       User deleted User       Name       Email         RENVG       User renamed venue group       Previous Venue Group       New Venue Group         REST       User restored booking       Date/Time	PENA	User approved booking	Date/Time	Client		
PRNTI     User printed invoice     Client     Invoice       PWC     User changed password	PENR	User rejected booking	Date/Time	Client	Reason	
PWC User changed password  REMFVG User removed venue from group Venue Venue Group  REMU User deleted User Name Email  RENVG User renamed venue group Previous Venue Group New Venue Group  REST User restored booking Date/Time	PRNT	User printed bookings	Print Title			
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REMU     User deleted User     Name     Email       RENVG     User renamed venue group     Previous Venue Group     New Venue Group       REST     User restored booking     Date/Time	PWC	- :				
RENVG     User renamed venue group     Previous Venue Group     New Venue Group       REST     User restored booking     Date/Time	REMFVG	User removed venue from group	Venue	Venue Group		
REST User restored booking Date/Time	REMU		Name	Email		
-	RENVG	User renamed venue group	Previous Venue Group	New Venue Group		
UPDATE MIDAS updated New Version New Build Date	REST	User restored booking	Date/Time			
- Total Colors	UPDATE	MIDAS updated	New Version	New Build Date		
UPSI User updated invoice status Invoice	UPSI	User updated invoice status	Invoice			

# Appendix B – Setting Names

The following codes may be used in conjunction with the "get\_setting" and "set\_setting" calls. The "Settable" column denotes which settings can be changed via the "set\_setting" call.

Setting	Description	Example value	Settable
api_version	Current version of the MIDAS API	1.07	
availability_alt_buffer	This setting (in Minutes) enforces a "gap" (spacing) when offering earlier/later alternative times in a venue	15	•
availability_alt_earlier	If "1" MIDAS will attempt to offer an earlier time in the event of an Unavailable venue	1	•
availability_alt_ignorervs	If "1" MIDAS will not enforce venue resource restrictions when offering alternative venues	1	•
availability_alt_later	If "1" MIDAS will attempt to offer a later time in the event of an Unavailable venue	1	•
availability_alt_venue	If "1" MIDAS will attempt to offer an alternative venue in the event that desired times are unavailable	1	•
availability_include_pending	If "1" MIDAS takes into account any pending booking requests when checking booking availability. If "0" confirmed bookings can be made over provisional booking slots	0	•
backup_email	The email address that automated database backups are sent to	backup@yourdomain.com	•
backup_last	The time of the last backup (epoch seconds)	1365609454	
backup_persist	The number of days to keep backups on server	7	•
build_date	Current MIDAS build date	1365608000	
callto_enabled	If "1" client phone/cell numbers become clickable "callto" links within MIDAS	1	•
cron_enable_invoice_overdue	If "1" automated invoice overdue notifications are enabled	1	•
cron_enable_invoice_remind	If "1" automated upcoming invoice reminders are enabled	1	•
cron_enable_invoice_send	If "1" automated sending of unsent invoices is enabled	1	•
cron_enable_start_remind	If "1" automated upcoming booking reminders are enabled	1	•
cron_hour	The hour (0-24) during which daily scheduled tasks should run	11	•
cron_invoice_overdue	The number of days after an unpaid invoice was due to automatically send an overdue notification to the client	7	•
cron_invice_remind	The number of days before an unpaid invoice is due to automatically send a payment reminder to the client	3	•
cron_last	The time that scheduled tasks were last	1407123529	

	run (epoch second)		
cron_start_remind	If "1" automated upcoming booking	1	
	reminders are enabled		•
datetime_amsymbol	The symbol denoting the first 12 hours of	AM	
<b>-</b> ,	the day (when running in 12 hour clock		•
	mode)		
datetime_datefirst	If "1" dates are shown before times,	1	
_	otherwise times are shown before dates		•
datetime_dateformat	The date format	DD/MM/YYYY	•
datetime_dtlink	The link symbol between date and time	@	•
datetime_gmtoffset	The timezone's GMT offset	0	•
datetime_minterval	The granularity of minutes	5	•
datetime_pmsymbol	The symbol denoting the first 12 hours of	PM	
<del>-</del> .	the day (when running in 12 hour clock		•
	mode)		
datetime_startofweek	The day that should be considered the	1	
_	start of the week (0 = Sunday, 1 =		•
	Monday, etc)		
datetime_timeformat	The time format	HH:mm	•
datetime_timenow	The current time (in epoch seconds)	1365696187	•
datetime_timezone	The timezone	Europe/London	•
datetime_ttlink	The link symbol between two times	-	•
email_bcc	The email address that outgoing email	bcc@yourdomain.com	
_	should be bcc'd to		•
email_sendfrom	The email address that outgoing email	midas@yourdomain.com	
	should appear sent from		•
invoicing_cancel_amount	The amount (fixed or percentage) to	20%	
	charge in late cancellation fees		•
invoicing_cancel_enabled	If "1" and a booking is cancelled (deleted)	1	
	within invoicing_cancel_leadtime hours		
	of when the booking was due to		•
	commence, a cancellation invoice will be		
	created		
invoicing_cancel_leadtime	Specifies (in hours) the cut-off point	168	
	before a booking commences after which		•
	a cancellation invoice can be generated if		
	the booking is cancelled (deleted)		
invoicing_counter	The next invoice number to be generated	4	•
invoicing_createbydefault	If "1" the "Create Invoice" option is	0	•
invoicing creetaif	checked when adding bookings  If "1" invoices will be created even if the	1	
invoicing_createifzero	calculated invoice total is zero. If "0"	1	
	invoices will only be created if their		•
	values are non-zero		
invoicing_currencycode	The currency code	USD	•
invoicing_currencysymbol	The currency symbol	\$	•
invoicing_decimalsep	The decimal separator	<b>Y</b>	•
invoicing_includezero	If "1" items will be included on invoices	1	-
mvoicing_includezel0	even if their total value is zero. If "0"	_	
	invoices will only include items that have		•
	an associated cost		
invoicing_itemize_notes	If "1" notes on invoices will be itemized	1	
voicing_itelinize_liotes	per booking. If "0" invoice notes will be	_	•
	combined		_
invoicing_generate_notes	The internal name of a booking field to	notes	•
	e internal name of a booking field to		-

	optionally include in the "notes" section	
	on generated invoices	
invoicing_no_booking_mod	If "1" bookings from which invoices have	0
	been generated can then no longer be	•
	modified	
invoicing_no_invoice_delete	If "1" invoices cannot be	0
	deleted/removed from the system until	•
	they have been paid in full	
invoicing_paypal_account	Your PayPal email address	paypal@yourdomain.com •
invoicing_paypal_enabled	If "1" online invoice payments are	1
• • • • • • • • • • • • • • • • • • • •	allowed via PayPal	4
invoicing_pay_require_email	If "1" clients are required to enter their	1
	email address in order to view their	•
invalaine mustiv	invoice online	MIDAS
invoicing_prefix	The prefix that is prepended to all regular	MIDAS
invalation musting annual	invoice numbers	CANCEL
invoicing_prefix_cancel	The prefix that is prepended to all cancellation invoice numbers	CANCEL
invoicing rounding	If "1" invoice values are rounded up to	1
invoicing_rounding	the nearest whole number 0	•
invoicing_silentdisc	If "1" booking type discounts are applied	0
invoicing_silentaisc	to invoices without any indication. If "0"	O
	invoices will denote that a discount has	•
	been applied	
invoicing_tax	The default tax percentage to be added	0
mvoicing_tax	to invoices	•
invoicing_thousandsep	The thousand separator	•
occupancy_max	The maximum number of people allowed	510
occupancy_max	on your site at any one time	•
occupancy_show	Show the occupancy level when	1
	adding/modifying bookings	•
occupancy_warn	Warn if the number of people on site	300
, , , , , , , , , , , , , , , , , , ,	exceeds this value	•
print_evactolerance	When printing Emergency Evacuation	15
_	Data, this number reflects how many	
	minutes either side of the current time	•
	the calculation of the number of people	
	on site should account for	
print_sortby	The booking field to sort booking print	start
	outs by	· ·
print_sortdir	The sort order of print outs (0 =	0
	ascending, 1 = descending)	-
search_maxresults	The maximum number of search results	50
	to return per page	
version	Current MIDAS version	4.07
view_autoclose_alerts	The number of seconds the "My	10
	Messages" pop-up should display for, if	•
	enabled by users	15
view_autoclose_notes	The number of seconds after which any	15
	"day notes" pop-ups should	•
	automatically close	
view_changemonthcell	Allow users to choose what's displayed in	•
	the monthly overview	20
view_cutoffdays	The number of days to keep temporary	30
	logs for	

view_default	The default view in the Booking Grid	AII •
view_gridrowheight	The height (in pixels) of each row in the booking grid	30
view_gridvenuewidth	The width (in pixels) of the first column in the booking grid	100
view_showonblocks	The booking field(s) to show on booking "blocks" in the booking grid	organisation
view_showonmonthcell	The booking field to show on dates in the monthly overview	client
view_showontools	The booking field(s) to show on tooltips when hovering over booking "blocks" in the booking grid	organisation •
view_updatefrequency	The number of seconds between successive background data refreshes	•
view_viewsize	The number of days to show in the booking grid by default	1
webrequest_alloweddomains	A comma separated list of email domains from which booking requests are permitted	@yourdomain.com, @hotmail.com
webrequest_autoapprove	If "1" booking requests are auto- approved. If "0" booking requests must be approved by an administrator	•
webrequest_blockcolor	The color of existing booking blocks on the public booking request screen	red
webrequest_disablepast	The date (YYYYMMDD) past which booking requests are not permitted	20141231
webrequest_enabled	If "1" public booking requests are enabled, if "0" public booking requests are disabled	•
webrequest_leadintime	The number of days in advance public booking request must be made	7
webrequest_leadouttime	The number of days in advance public booking request are allowed to be made for	•
webrequest_showcapacities	If "1" selected venue's capacities are shown during public booking requesting. If "0" venue capacities are not revealed to requestors	•
webrequest_showclosed	If "1" selected venue's operating hours are shown during public booking requesting. If "0" operating hours are not revealed to requestors	•
webrequest_showonblocks	What information should be shown on booking blocks in the public booking request screen	times

# Appendix C – Error Handling

When making API calls, your applications should take into account possible errors that may be returned.

API errors will be returned in JSON format as follows:

Example Error Response
{"error":"error response"}

Error Response	Meaning	Applies To
"not enabled"	API access is not enabled at this time. API access can be enabled from within MIDAS via MIDAS Admin Options → Manage Addons → API Access → Enabled	All
"invalid api key"	You have not supplied your API key in your call, or the API key supplied is invalid	All
"GET method not allowed. Use POST instead"	An http GET request has been made to the API, but the API has been set to accept http POST requests only. This setting may be changed via MIDAS Admin Options $\rightarrow$ Manage Addons $\rightarrow$ API Access $\rightarrow$ Allow GET (as well as POST) method	All
"API running in read only mode"	You have tried to make an API call that would result in changes to data within MIDAS, yet the API is currently restricted to "read only" mode. To make your call, you will first need to untick the "Read only access" setting (MIDAS Admin Options → Manage Addons → API Access)	<pre>add_* approve_request del_* email_client gen_invoice mod_* notify_user reject_request set *</pre>
"no matches found"	No data was returned for the API call. Try broadening the search parameters	get_activity get_bookings get_client get_consuable_levels get_invoice get_invoices get_messages get_reminders get_user get_venues_in_group get_watches
"protected setting"	The setting you're trying to modify is read-only and cannot be modified	set_setting
"referrer not allowed"	The API call originates from a blocked domain/IP address. Allowed domains/IP's may be specified from within MIDAS via MIDAS Admin Options → Manage Addons → API Access → Allowed Referrers	All
"required parameter missing"	One or more parameters are required for the particular call you're making is missing	All
"unknown booking type"	Indicates that the specified booking type doesn't exist	del_bookings get_bookings (when the type parameter is specified)
"unknown command"	The API command you've specified was unrecognized. Please check you're using a valid command	All
"unknown resource"	Indicates that the specified resource doesn't exist	<pre>get_resource_availabilit y</pre>
"unknown setting"	Indicates that the specified setting isn't recognized	get_setting set_setting
"unknown template"	Indicates that the specified template isn't recognized	get_template set_template

"unknown user"	Indicates that the specified user doesn't exist	<pre>get_activity get_messeges get_reminders get_watches</pre>
"unknown venue"	Indicates that the specified venue doesn't exist	<pre>del_bookings get_availability get_bookings (when the venue parameter is specified) get_venue</pre>
"unknown venue group"	Indicates that the specified venue group doesn't exist	get_venues_in_group

# **Code Samples**

#### jQuery

```
$.post("http://your_midas_url/api.pl", { key: "your_api_key", action:
"get_client", client: "Joe Bloggs" })
.done(function(response) {
  alert("Response: " + response);
}, "JSON");
```

#### Perl

```
use LWP::UserAgent;
my$ua = LWP::UserAgent->new(env_proxy => 0,keep_alive => 0,timeout =>
30,agent =>'Mozilla/4.0 (compatible; MSIE 9.0; Windows NT 5.0)');
my$r = $ua-
>post("http://your_midas_url/api.pl",[key=>"your_api_key",action=>"get_c lient",client=>"Joe Bloggs"]);
if ($r->is_success) {
    $response=$r->content;
}
```

#### **PHP**

```
$myvars = "key=your_api_key&action=get_client&client=Joe Bloggs";
$ch = curl_init("http://your_midas_url/api.pl");
curl_setopt( $ch, CURLOPT_POST, 1);
curl_setopt( $ch, CURLOPT_POSTFIELDS, $myvars);
curl_setopt( $ch, CURLOPT_FOLLOWLOCATION, 1);
curl_setopt( $ch, CURLOPT_HEADER, 0);
curl_setopt( $ch, CURLOPT_RETURNTRANSFER, 1);
$response = curl_exec( $ch );
```

#### Python

#### C#

```
using(WebClient client = new WebClient())
{
    System.Collections.Specialized.NameValueCollection reqparm = new
System.Collections.Specialized.NameValueCollection();
    parameters.Add("key", "your_api_key");
    parameters.Add("action", "get_client");
    parameters.Add("client", "Joe Bloggs");
    byte[] responsebytes =
client.UploadValues("http://your_midas_url/api.pl", "POST", parameters);
    string response = Encoding.UTF8.GetString(responsebytes);
}
```

# **Release Notes**

# v2.08 13<sup>th</sup> July 2015 Improved: "get\_bookings" call can now be restricted to an individial client "get\_client" call now returns "id" in place of "client\_id" v2.07 22<sup>nd</sup> May 2015 Added: "get\_resource" call Improved: "get\_venue" call now returns blocks and alternatives Improved: Logging when calls fail/error produced v2.06 28<sup>th</sup> February 2015 Fixed: Some JSON responses don't correctly validate

# v2.05 10<sup>th</sup> February 2015 • Fixed: Some settings not being correctly loaded if API run in isolation (without a concurrent login)

v2.04		
9 <sup>th</sup> February 2015	•	Fixed: New line characters not being correctly escaped in some API responses

v2.03		
1 <sup>st</sup> February 2015	•	Fixed: Quotation marks not being correctly escaped in some API responses

v2.02		
19 <sup>th</sup> January 2015	•	Fixed: If multiple databases are in use, it may not be possible to access the Manage Addons
		screen from additional databases

v2.01	
2 <sup>nd</sup> January 2015	Fixed: Multi-database support

v2.00	
1 <sup>st</sup> September 2014	<ul> <li>The API now allows bi-directional communication with MIDAS - meaning you can now add/set/change data as well as reading it.</li> <li>The following new API calls have been implemented:         <ul> <li>add_booking</li> <li>add_lient</li> <li>add_invoice</li> <li>add_resource</li> <li>approve_request</li> <li>del_booking</li> <li>del_bookings</li> <li>del_client</li> <li>del_invoice</li> <li>del_resource</li> <li>email_client</li> <li>gen_invoice</li> <li>get_template</li> <li>mod_booking</li> <li>mod_client</li> <li>mod_resource</li> </ul> </li> </ul>

notify_user reject_request restore_booking set_setting
set_template

#### v1.03

20<sup>th</sup> March 2014

- Added: "member\_of" to the list of returned values for the "get\_venue" call
- Change: Format of "rates" information returned by "get\_venue" call updated for MIDAS v4.06
- Fixed: "closed\_from"/"closed\_to" values from "get\_venue" call may return 1/1/1970

#### v1.02

18<sup>th</sup> February 2014

• Added: Support for multiple databases

#### v1.01

7<sup>th</sup> October 2013

Added: "get\_venues\_in\_use" call

#### v1.00

1<sup>st</sup> June 2013

Initial API release

For the most up-to-date API documentation, please visit <a href="http://mid.as/api">http://mid.as/api</a>