



The company behind EMS Manager and FIRE Manager

Aladtec Vendor XML API

version 2.3.1
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Introduction

This document describes the Aladtec Vendor XML API. The Vendor XML API is implemented as a PHP page that accepts POST params and returns XML after a user has been authenticated. The Vendor XML API is included with EMS Manager and FIRE Manager and does not need to be installed separately.

Example Access to API

Information Submitted

URL

`https://secure.emsmanager.net/api/index.php`

Contents

`accid=449543&acckey=J398NJT798U40CC0K2GYR4Z1I3D7TLYE&cusid=99876&cmd=getSchedules`

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <schedules>
    <schedule id="5">
      <name>Sample BLS - 24/48</name>
    </schedule>
    <schedule id="6">
      <name>Medic 5</name>
    </schedule>
    <schedule id="7">
      <name>Wheelchair Van 12</name>
    </schedule>
    <schedule id="8">
      <name>Air Crew</name>
    </schedule>
    <schedule id="9">
      <name>Dispatch</name>
    </schedule>
  </schedules>
</results>
```



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General Information about the API

1. Only POST requests will be processed.
2. The response is a valid XML file in UTF-8 format containing an outer <results> tag at the root.
3. If the first child node is <error>, something went wrong.
4. The HTTP response code for a successful connection and reply is 200.
5. All date/time references are specified in UTC using the following case-sensitive format as in the example: 2010-03-22T15:30:00Z
 - 2010 is the year
 - 03* is the month
 - 22* is the day of month
 - 15* is the hour using a 24 hour clock
 - 30* is the minute
 - 00* is the second

* these values are 2-digit and "left-zero padded"
6. The API is accessed through the following URL <https://secure.emsmanager.net/api/index.php>
7. The API can only be accessed through HTTPS.
8. All parameter keys and values are case sensitive and should be url encoded.



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Commands

Parameters required on all requests

- *accid* - access identifier
- *acckey* - access key
- *cusid* - customer id
- *cmd* - argument indicating what you want to do

Note: In following examples, the URL as well as the *accid*, *acckey* and *cusid* parameters are assumed and intentionally omitted for easier reading.

KEEP THE VALUES OF *accid*, *acckey* and *cusid* SAFE. ANYONE WHO HAS ACCESS TO THIS INFORMATION WILL BE ABLE TO USE IT TO RETRIEVE DATA FROM YOUR EMS OR FIRE MANAGER SYSTEM.



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authenticateMember - check member password against either member unique identifier or member user name. If too many failed password attempts occur (code 2, see below), then the member will be locked out for a period of time (codes 3 and 4, see below) and Aladtec will be notified. **Any abuse of this command will result in the immediate disabling of the offending access identifier's account.**

Extra Required Parameters

```
memid|memun - Aladtec unique identifier for member (memid) OR member user name (memun)
mempw      - member password
```

Extra Optional Parameters

(NONE)

Example

Information Submitted

```
cmd=authenticateMember&memid=8&mempw=pass2453
OR ...
cmd=authenticateMember&memun=psmith&mempw=pass2453
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <authentication code="0">
    <member id="8"/>
  </authentication>
</results>
```

Possible Payloads

```
<authentication code="0"><member id="8"/></authentication>
OR ...
<authentication code="1"><message>Member could not be found.</message></authentication>
OR ...
<authentication code="2"><message>Invalid password.</message></authentication>
OR ...
<authentication code="3" retry="2"><message>Too many failed attempts.</message></authentication>
OR ...
<authentication code="4" retry="5"><message>Member currently locked out.</message></authentication>
```

Payload Definitions

```
authentication - container for authentication information
code (authentication) - authentication status - 0 is successful, 1 thru 4 failure
retry (authentication) - seconds before member is no longer locked out - times vary
→ member - specific member information - this is only returned for a code value of 0 (zero)
id (member) - Aladtec unique identifier for member
→ message - textual message for codes 1 thru 4
```



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getAttributes - obtain a list of all of the groups and their associated attributes in the system

Extra Required Parameters

(NONE)

Extra Optional Parameters

(NONE)

Example

Information Submitted

```
cmd=getAttributes
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <groups>
    <group id="1">
      <name>General Information</name>
    </group>
    <group id="3">
      <name>Certifications</name>
    </group>
  </groups>
  <attributes>
    <attribute id="1" accessible="yes" key="first_name" groupid="1">
      <name>First Name</name>
    </attribute>
    <attribute id="3" accessible="yes" key="last_name" groupid="1">
      <name>Last Name</name>
    </attribute>
    <attribute id="5" accessible="no" key="hire_date" groupid="1">
      <name>Date Hired</name>
    </attribute>
    <attribute id="7" accessible="no" key="mobile_phone" groupid="1">
      <name>Mobile Phone</name>
    </attribute>
    <attribute id="9" accessible="no" key="email" groupid="1">
      <name>Email</name>
    </attribute>
    <attribute id="34" accessible="no" key="employee_type" groupid="1">
      <name>Employee Type</name>
    </attribute>
    <attribute id="35" accessible="no" key="text_messages" groupid="1">
      <name>Mobile Phone Provider For Texts</name>
    </attribute>
    <attribute id="18" accessible="no" groupid="3">
      <name>EMT-B Course: Completed</name>
    </attribute>
  </attributes>
</results>
```



The company behind EMS Manager and FIRE Manager

Definitions

groups	- container for group information
→ group	- specific group information
id (group)	- Aladtec unique identifier for group
→ name	- name of group
attributes	- container for attribute information
→ attribute	- specific attribute information
id (attribute)	- Aladtec unique identifier for attribute
accessible (attribute)	- accessibility to this attribute via the api
groupid (attribute)	- Aladtec unique identifier for group
key (attribute)	- Aladtec unique identifier for attribute across all systems
	- available keys:
	- first_name - exists in every system
	- last_name - exists in every system
	- title - exists in some systems
	- hire_date - exists in every system
	- home_phone - exists in some systems
	- mobile_phone - exists in every system
	- pager - exists in some systems
	- email - exists in every system
	- employee_type - exists in every system
→ name	- name of attribute



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getMembers - obtain a list of all of the members in the system

Extra Required Parameters

(NONE)

Extra Optional Parameters

ia - including api accessible attributes (all)

Example 1 of 2

Information Submitted

cmd=getMembers

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <members>
    <member id="32">
      <name>John Anderson</name>
    </member>
    <member id="42">
      <name>Bill Johnson</name>
    </member>
    <member id="64">
      <name>Pete Smith</name>
    </member>
  </members>
</results>
```

Definitions

```
members      - container for member information
→ member    - specific member information
  id (member) - Aladtec unique identifier for member
  → name     - name of member
```



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Example 2 of 2

Information Submitted

```
cmd=getMembers&ia=all
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <members>
    <member id="32">
      <name>John Anderson</name>
      <attributes>
        <attribute id="1" key="first_name">
          <value>John</value>
        </attribute>
        <attribute id="3" key="last_name">
          <value>Anderson</value>
        </attribute>
      </attributes>
    </member>
    <member id="42">
      <name>Bill Johnson</name>
      <attributes>
        <attribute id="1" key="first_name">
          <value>Bill</value>
        </attribute>
        <attribute id="3" key="last_name">
          <value>Johnson</value>
        </attribute>
      </attributes>
    </member>
    <member id="64">
      <name>Pete Smith</name>
      <attributes>
        <attribute id="1" key="first_name">
          <value>Pete</value>
        </attribute>
        <attribute id="3" key="last_name">
          <value>Smith</value>
        </attribute>
      </attributes>
    </member>
  </members>
</results>
```

Definitions

members	- container for member information
→ member	- specific member information
id (member)	- Aladtec unique identifier for member
→ name	- name of member
→ attributes	- container for attribute information
→ attribute	- specific attribute information
id (attribute)	- Aladtec unique identifier for attribute
key (attribute)	- Aladtec unique identifier for attribute across all systems
→ value	- value of attribute



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getScheduledTimeNow - obtain a list of everyone who is scheduled to work at time of request

Extra Required Parameters

(NONE)

Extra Optional Parameters

sch - comma separated list of schedule ids (e.g. 5,6,7) OR all - all default
isp - boolean flag for including schedule positions (0 or 1) - 0 default

Example 1 of 2

Information Submitted

```
cmd=getScheduledTimeNow&sch=5%2C9
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <schedules>
    <schedule id="5">
      <members>
        <member id="32" />
        <member id="64" />
      </members>
    </schedule>
    <schedule id="9" />
  </schedules>
</results>
```

Definitions

schedules	- container for schedule information
→ schedule	- specific schedule information
id (schedule)	- Aladtec unique identifier for schedule
→ members	- container for member information
→ member	- specific member information
id (member)	- Aladtec unique identifier for member



The company behind EMS Manager and FIRE Manager

getScheduledTimeNow - CONTINUED

Example 2 of 2

Information Submitted

```
cmd=getScheduledTimeNow&sch=5%2C9&isp=1
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <schedules>
    <schedule id="5">
      <positions>
        <position id="1">
          <member id="32" />
        </position>
        <position id="2">
          <member id="64" />
        </position>
      </positions>
    </schedule>
    <schedule id="9">
      <positions>
        <position id="4" />
      </positions>
    </schedule>
  </schedules>
</results>
```

Definitions

schedules	- container for schedule information
→ schedule	- specific schedule information
id (schedule)	- Aladtec unique identifier for schedule
→ positions	- container for schedule position information
→ position	- specific schedule position information
id (position)	- Aladtec unique identifier for schedule position
→ member	- specific member information
id (member)	- Aladtec unique identifier for member



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getScheduledTimeRanges - obtain a list of everyone who is scheduled to work within a time range across 1 or more schedules

Extra Required Parameters

bt - beginning of the time range from which you want data
et - ending of the time range from which you want data

Extra Optional Parameters

sch - comma separated list of schedule ids (e.g. 5,6,7) OR all - all default
isp - boolean flag for including schedule positions (0 or 1) - 0 default

Example 1 of 2

Information Submitted

```
cmd=getScheduledTimeRanges&sch=5%2C6%2C9&bt=2010-03-15T15%3A00%3A00Z&et=2010-03-22T15%3A00%3A00Z
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <ranges>
    <range>
      <schedule id="5" />
      <member id="42" />
      <begin>2010-03-20T03:30:00Z</begin>
      <end>2010-03-20T15:30:00Z</end>
    </range>
    <range>
      <schedule id="6" />
      <member id="32" />
      <begin>2010-03-20T07:30:00Z</begin>
      <end>2010-03-21T21:30:00Z</end>
    </range>
  </ranges>
</results>
```

Definitions

ranges	- container for scheduled date/time info
→ range	- specific scheduled date/time info
→ schedule	- specific schedule information
id (schedule)	- Aladtec unique identifier for schedule
→ member	- specific member information
id (member)	- Aladtec unique identifier for member
→ begin	- date/time of the beginning of current "shift"
→ end	- date/time of the ending of current "shift"



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getScheduledTimeRanges - CONTINUED

Example 2 of 2

Information Submitted

```
cmd=getScheduledTimeRanges&sch=5%2C6%2C9&bt=2010-03-15T15%3A00%3A00Z&et=2010-03-22T15%3A00%3A00Z&isp=1
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <ranges>
    <range>
      <schedule id="5" />
      <position id="1" />
      <member id="42" />
      <begin>2010-03-20T03:30:00Z</begin>
      <end>2010-03-20T11:30:00Z</end>
    </range>
    <range>
      <schedule id="5" />
      <position id="2" />
      <member id="42" />
      <begin>2010-03-20T11:30:00Z</begin>
      <end>2010-03-20T15:30:00Z</end>
    </range>
    <range>
      <schedule id="6" />
      <position id="9" />
      <member id="32" />
      <begin>2010-03-20T07:30:00Z</begin>
      <end>2010-03-21T21:30:00Z</end>
    </range>
  </ranges>
</results>
```

Definitions

ranges	- container for scheduled date/time info
→ range	- specific scheduled date/time info
→ schedule	- specific schedule information
id (schedule)	- Aladtec unique identifier for schedule
→ position	- specific schedule position information
id (position)	- Aladtec unique identifier for schedule position
→ member	- specific member information
id (member)	- Aladtec unique identifier for member
→ begin	- date/time of the beginning of current "shift"
→ end	- date/time of the ending of current "shift"



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getSchedules - obtain a list of all of the schedules in the system

Extra Required Parameters

(NONE)

Extra Optional Parameters

isp - boolean flag for including schedule positions (0 or 1) - 0 default

Example 1 of 2

Information Submitted

cmd=getSchedules

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <schedules>
    <schedule id="5">
      <name>Sample BLS - 24/48</name>
    </schedule>
    <schedule id="6">
      <name>Medic 5</name>
    </schedule>
    <schedule id="7">
      <name>Wheelchair Van 12</name>
    </schedule>
    <schedule id="8">
      <name>Air Crew</name>
    </schedule>
    <schedule id="9">
      <name>Dispatch</name>
    </schedule>
  </schedules>
</results>
```

Definitions

```
schedules      - container for schedule information
→ schedule    - specific schedule information
  id (schedule) - Aladtec unique identifier for schedule
→ name        - name of schedule
```



The company behind EMS Manager and FIRE Manager

getSchedules - CONTINUED

Example 2 of 2

Information Submitted

cmd=getSchedules&isp=1

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="2.3.1" accessTime="2011-08-15T15:52:01Z">
  <schedules>
    <schedule id="5">
      <name>Sample BLS - 24/48</name>
      <positions>
        <position id="1">
          <name>EMT</name>
        </position>
        <position id="2">
          <name>Driver</name>
        </position>
      </positions>
    </schedule>
    <schedule id="6">
      <name>Medic 5</name>
      <positions>
        <position id="9">
          <name>Medic</name>
        </position>
        <position id="8">
          <name>EMT</name>
        </position>
      </positions>
    </schedule>
    <schedule id="7">
      <name>Wheelchair Van 12</name>
      <positions>
        <position id="14">
          <name>Driver</name>
        </position>
      </positions>
    </schedule>
    <schedule id="8">
      <name>Air Crew</name>
      <positions>
        <position id="10">
          <name>Medic</name>
        </position>
        <position id="11">
          <name>EMT</name>
        </position>
        <position id="12">
          <name>Pilot</name>
        </position>
      </positions>
    </schedule>
  </schedules>
</results>
```

[CONTINUED ON NEXT PAGE ...]



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```
<schedule id="9">
  <name>Dispatch</name>
  <positions>
    <position id="4">
      <name>Dispatcher</name>
    </position>
  </positions>
</schedule>
</schedules>
</results>
```

Definitions

schedules	- container for schedule information
→ schedule	- specific schedule information
id (schedule)	- Aladtec unique identifier for schedule
→ name	- name of schedule
→ positions	- container for schedule position information
→ position	- specific schedule position information
id (position)	- Aladtec unique identifier for schedule position
→ name	- name of schedule position



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Errors

Any HTTP response code other than 200 should be considered an error.

API Errors

Example Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results>
  <error code="1">API Unavailable</error>
</results>
```

Definitions

```
error          - error description
code (error)   - unique identifier for error (see Error Codes below)
```

Error Codes

```
1 - API Unavailable
2 - Unauthorized Access
3 - Invalid Request
```



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Programming Examples

NOTE: You will need your own personal values for accid, acckey and cusid. The following use of 449543, J398NJT798U40CC0K2GYR4Z1I3D7TLYE and 99876 are just for illustrations purposes only. They will not allow you to access the web service. Please contact Aladtec, Inc. to request your own authentication codes.

KEEP THE VALUES OF accid, acckey and cusid SAFE. ANYONE WHO HAS ACCESS TO THIS INFORMATION WILL BE ABLE TO USE IT TO RETRIEVE DATA FROM YOUR EMS OR FIRE MANAGER SYSTEM.

HTML Form Example

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
  <head><title>Web Service Example</title></head>
  <body>
    <h1>getMembers example</h1>
    <form action="https://secure.emsmanager.net/api/index.php" method="POST">
      <input type="hidden" name="accid" value="449543">
      <input type="hidden" name="acckey" value="J398NJT798U40CC0K2GYR4Z1I3D7TLYE">
      <input type="hidden" name="cusid" value="99876">
      <input type="hidden" name="cmd" value="getMembers">
      <input type="submit" value="Get Data">
    </form>

    <h1>getScheduledTimeRanges example</h1>
    <form action="https://secure.emsmanager.net/api/index.php" method="POST">
      <input type="hidden" name="accid" value="449543">
      <input type="hidden" name="acckey" value="J398NJT798U40CC0K2GYR4Z1I3D7TLYE">
      <input type="hidden" name="cusid" value="99876">
      <input type="hidden" name="cmd" value="getScheduledTimeRanges">
      <input type="hidden" name="sch" value="all">
      Beginning Date/Time (e.g. 2010-03-18T04:00:00Z)
      <input type="text" name="bt" value="">
      (only the UTC time zone is supported)<br>
      Ending Date/Time (e.g. 2010-03-25T04:00:00Z)
      <input type="text" name="et" value="">
      (only the UTC time zone is supported)<br>
      <input type="submit" value="Get Data">
    </form>

    <h1>getSchedules example</h1>
    <form action="https://secure.emsmanager.net/api/index.php" method="POST">
      <input type="hidden" name="accid" value="449543">
      <input type="hidden" name="acckey" value="J398NJT798U40CC0K2GYR4Z1I3D7TLYE">
      <input type="hidden" name="cusid" value="99876">
      <input type="hidden" name="cmd" value="getSchedules">
      <input type="submit" value="Get Data">
    </form>
  </body>
</html>
```



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PHP Example (with cURL compiled into PHP binary – tested with PHP v5.3.2)

```
<?php

$commands = array(
    'getMembers example' => array(
        'accid' => '449543'
        , 'acckey' => 'J398NJT798U40CC0K2GYR4Z1I3D7TLYE'
        , 'cusid' => '99876'
        , 'cmd' => 'getMembers'
    )
    , 'getScheduledTimeRanges example' => array(
        'accid' => '449543'
        , 'acckey' => 'J398NJT798U40CC0K2GYR4Z1I3D7TLYE'
        , 'cusid' => '99876'
        , 'cmd' => 'getScheduledTimeRanges'
        , 'sch' => 'all'
        , 'bt' => '2010-03-18T04:00:00Z'
        , 'et' => '2010-03-25T04:00:00Z'
    )
    , 'getSchedules example' => array(
        'accid' => '449543'
        , 'acckey' => 'J398NJT798U40CC0K2GYR4Z1I3D7TLYE'
        , 'cusid' => '99876'
        , 'cmd' => 'getSchedules'
    )
) ;

foreach ( $commands as $example_text => &$post_vars )
{
    $cs = curl_init() ;

    curl_setopt( $cs, CURLOPT_URL, 'https://secure.emsmanager.net/api/index.php' ) ;
    curl_setopt( $cs, CURLOPT_POST, 1 ) ;
    curl_setopt( $cs, CURLOPT_HEADER, 0 ) ;
    curl_setopt( $cs, CURLOPT_SSL_VERIFYPEER, 0 ) ;
    curl_setopt( $cs, CURLOPT_SSL_VERIFYHOST, 2 ) ;
    curl_setopt( $cs, CURLOPT_FOLLOWLOCATION, 1 ) ;
    curl_setopt( $cs, CURLOPT_RETURNTRANSFER, 1 ) ;
    curl_setopt( $cs, CURLOPT_POSTFIELDS, $post_vars ) ;

    $curl_results = curl_exec( $cs ) ;

    // check http return code
    $code = curl_getinfo( $cs, CURLINFO_HTTP_CODE ) ;
    curl_close( $cs ) ;

    if ( $code != '200' ){ die('Bad HTTP Code ( ' . $code . ' ) - ' . $example_text) ; }

    echo $example_text, "\n" ;
    echo $curl_results, "\n\n" ;
}

unset( $post_vars ) ;

?>
```



The company behind EMS Manager and FIRE Manager

PHP Example (with cURL and SimpleXML compiled into PHP binary – tested with PHP v5.3.2)

```
<?php

$post_vars = array(
    'accid' => '449543'
    , 'acckey' => 'J398NJT798U40CC0K2GYR4Z1I3D7TLYE'
    , 'cusid' => '99876'
    , 'cmd' => 'getSchedules'
) ;

$cs = curl_init() ;

curl_setopt( $cs, CURLOPT_URL, 'https://secure.emsmanager.net/api/index.php' ) ;
curl_setopt( $cs, CURLOPT_POST, 1 ) ;
curl_setopt( $cs, CURLOPT_HEADER, 0 ) ;
curl_setopt( $cs, CURLOPT_SSL_VERIFYPEER, 0 ) ;
curl_setopt( $cs, CURLOPT_SSL_VERIFYHOST, 2 ) ;
curl_setopt( $cs, CURLOPT_FOLLOWLOCATION, 1 ) ;
curl_setopt( $cs, CURLOPT_RETURNTRANSFER, 1 ) ;
curl_setopt( $cs, CURLOPT_POSTFIELDS, $post_vars ) ;

$curl_results = curl_exec( $cs ) ;

// check http return code
$code = curl_getinfo( $cs, CURLINFO_HTTP_CODE ) ;
curl_close( $cs ) ;

if ( $code != '200' ){ die('Bad HTTP Code ( ' . $code . ' ) - getSchedules example') ; }

// list schedule names and ids

$xml = new SimpleXMLElement( $curl_results ) ;

foreach ( $xml->schedules->schedule as $schedule )
{
    // access name tag contents
    echo $schedule->name ;

    echo ' - ID ( ' ;

    // access schedule id attribute
    echo $schedule['id'] ;

    echo ') ' , "\n" ;
}

?>
```