Aladtec Vendor XML API

version 3.5.1
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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 the product and does not need to be installed separately.

Example Access to API

HTML Form Submitted

```
<!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>getSchedules example</h1>
        <form action="<Aladtec assigned URL>" method="POST">
           <input type="hidden" name="accid" value="<Aladtec assigned accid>">
           <input type="hidden" name="acckey" value="<Aladtec assigned acckey>">
           <input type="hidden" name="cmd" value="getSchedules">
           <input type="submit" value="Get Data">
        </form>
    </body>
</html>
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
       <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>
```

General Information about the API

1. Only HTTP **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. The HTTP response code for a redirected URL will be 3xx (three hundred) level reply.
6. 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”

7. The API is accessed through a URL given to you by Aladtec.
8. The API can only be accessed through HTTPS.
9. All parameter keys and values are case sensitive and should be url encoded.

Commands

Parameters required on all requests

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

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

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

Command: ***authenticateMember***

Description: Checks 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="3.5.1" accessTime="2016-03-03T15:52:01Z">
        <authentication code="0">
                <member id="8"/>
        </authentication>
</results>
```

Possible Information Returned

```
<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>
```

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
```

Command: ***getAttributes***

Description: Returns a list of all of the member database sections (groups) and their associated member database fields (attributes).

Extra Required Parameters

(NONE)

Extra Optional Parameters

(NONE)

Example

Information Submitted

```
cmd → getAttributes
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<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>
```

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 the member database values of this
                            attribute via the api.  Please contact Aladtec, Inc. to
                            alter accessibility status.
  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
```

Command: ***getAvailability***

Description: Returns a list of members and their associated availability types within a time range.

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

```
(NONE)
```

Example

Information Submitted

```
cmd → getAvailability
bt → 2015-01-01T00:00:00Z
et → 2016-01-01T00:00:00Z
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
        <ranges>
                <range>
                        <type>Available</type>
                        <member id="32" />
                        <begin>2015-12-14T12:00:00Z</begin>
                        <end>2015-12-14T20:00:00Z</end>
                </range>
                <range>
                        <type>Prefer</type>
                        <member id="64" />
                        <begin>2015-11-19T03:00:00Z</begin>
                        <end>2015-11-21T21:00:00Z</end>
                </range>
        </ranges>
</results>
```

Definitions

```
ranges          - container for availability date-time info
→ range         - specific availability date-time info
  → type        - specific availability type ( Available, Prefer, Unavailable )
  → member      - specific member information
    id (member) - Aladtec unique identifier for member
  → begin       - date-time of the beginning of availability type range
  → end         - date-time of the ending of availability type range
```

Command: ***getClockedInMembers***

Description: Returns a list of members currently punched into the system time clock.

Extra Required Parameters

```
(NONE)
```

Extra Optional Parameters

```
(NONE)
```

Example 1 of 2 - When SOME members are currently punched into the system time clock.

Information Submitted

```
cmd → getClockedInMembers
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
        <members>
                <member id="32" />
                <member id="64" />
        </members>
</results>
```

Definitions

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

Example 2 of 2 - When NO members are currently punched into the system time clock.

Information Submitted

```
cmd → getClockedInMembers
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
        <members />
</results>
```

Definitions

```
members - container for member information
```

Command: ***getEvents***

Description: Returns a list of events.

Extra Required Parameters

```
bd - beginning date in the format yyyy-mm-dd from which you want data
```

Extra Optional Parameters

```
ed - ending date in the format yyyy-mm-dd from which you want data
```

Example

Information Submitted

```
cmd → getEvent
bd → 2012-04-01
ed → 2012-04-30
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<events>
		<event public="yes" type="5">
			<title>Game Night</title>
			<description>Play games until the sun comes up!</description>
			<location>Public Library</location>
			<begin>2012-04-20</begin>
			<end>2012-04-21T15:30:00Z</end>
			<schedules />
		</event>
		<event public="no" type="4">
			<title>CPR Training</title>
			<description></description>
			<location>Clinic</location>
			<begin>2012-05-01T01:30:00Z</begin>
			<end />
			<schedules>
				<schedule id="1" />
				<schedule id="3" />
				<schedule id="4" />
			</schedules>
		</event>
	</events>
</results>
```

Definitions

```
events             - container for event info
→ event            - specific event info
  public (event)   - whether event is marked as publicly viewable - either "yes" or
                     "no"
  type (event)     - one of the following:
                       1 - starts on <begin> date at <begin> time and ends on <end> date
                           at <end> time
                       2 - starts on <begin> date at <begin> time and ends on <end> date
                       3 - starts on <begin> date at <begin> time and ends on <end> time
                       4 - starts on <begin> date at <begin> time
                       5 - starts on <begin> date and ends on <end> date at <end> time
                       6 - starts on <begin> date and ends on <end> date
                       7 - starts on <begin> date and ends on <end> time
                       8 - occurs on <begin> date
→ title            - event title
→ description      - event description
→ location         - event location
→ begin            - date or date-time of the beginning of the event
→ end              - date or date-time of the ending of the event
→ schedules        - container for schedule information
  → schedule       - specific schedule information
    id (schedule)  - Aladtec unique identifier for schedule
```

Command: ***getMembers***

Description: Returns a list of all of the members.

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="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<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
```

Example 2 of 2

Information Submitted

```
cmd → getMembers
ia → all
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<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
```

Command: ***getScheduledTimeNow***

Description: Returns a list of members who are 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="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<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
```

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="3.5.1" accessTime="2016-03-03T15:52:01Z">
       <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
```

Command: ***getScheduledTimeRanges***

Description: Returns a list of members who are 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
itt - boolean flag for including time types (0 or 1) - 0 default
```

Example 1 of 3

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="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<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"
```

getScheduledTimeRanges *- CONTINUED*

Example 2 of 3

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="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<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"
```

getScheduledTimeRanges - *CONTINUED*

Example 3 of 3

Information Submitted

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

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<ranges>
		<range>
			<schedule id="5" />
			<position id="1" />
			<timetype>Regular</timetype>
			<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" />
			<timetype>Regular</timetype>
			<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" />
			<timetype>Overtime</timetype>
			<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
  → timetype      - specific time type information
  → 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"
```

Command: ***getSchedules***

Description: Returns a list of all of the schedules.

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="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<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
```

getSchedules - *CONTINUED*

Example 2 of 2

Information Submitted

```
cmd → getSchedules
isp → 1
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<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>
```

[CONTINUED ON NEXT PAGE ...]

```
                <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
```

Command: ***getTimeClockRanges***

Description: Returns a list of members who have time clock punches within a time range.

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

```
ipc - boolean flag for including pay code information (0 or 1) - 0 default
```

Example 1 of 2

Information Submitted

```
cmd → getTimeClockRanges
bt → 2010-04-01T15%3A00%3A00Z
et → 2010-04-30T15%3A00%3A00Z
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
        <ranges>
                <range>
                        <member id="42" />
                        <begin>2010-05-20T03:30:00Z</begin>
                        <end>2010-05-20T15:30:00Z</end>
                </range>
                <range>
                        <member id="32" />
                        <begin>2010-05-12T07:30:00Z</begin>
                        <end>2010-05-12T21:30:00Z</end>
                </range>
        </ranges>
</results>
```

Definitions

```
ranges          - container for time clock date-time info
→ range         - specific time clock date-time info
  → member      - specific member information
    id (member) - Aladtec unique identifier for member
  → begin       - date-time of the beginning of time clock range
  → end         - date-time of the ending of time clock range
```

getTimeClockRanges *- CONTINUED*

Example 2 of 2

Information Submitted

```
cmd → getTimeOff
bt → 2010-04-01T15%3A00%3A00Z
et → 2010-04-30T15%3A00%3A00Z
ipc → 1
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<ranges>
		<range>
			<member id="42" />
			<paycode>Training/Drill</paycode>
			<begin>2010-05-20T03:30:00Z</begin>
			<end>2010-05-20T15:30:00Z</end>
		</range>
		<range>
			<member id="32" />
			<paycode>Regular Shift</paycode>
			<begin>2010-05-12T07:30:00Z</begin>
			<end>2010-05-12T21:30:00Z</end>
		</range>
	</ranges>
</results>
```

Definitions

```
ranges          - container for time off date-time info
→ range         - specific time off date-time info
  → member      - specific member information
    id (member) - Aladtec unique identifier for member
  → paycode     - specific time clock pay code information
  → begin       - date-time of the beginning of time off range
  → end         - date-time of the ending of time off range
```

Command: ***getTimeOff***

Description: Returns a list of members who have approved time off within a time range.

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

```
ipto - boolean flag for including paid time off (0 or 1) - 0 default
itot - boolean flag for including time off types (0 or 1) - 0 default
```

Example 1 of 3

Information Submitted

```
cmd → getTimeOff
bt → 2010-04-01T15%3A00%3A00Z
et → 2010-04-30T15%3A00%3A00Z
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
        <ranges>
                <range>
                        <member id="42" />
                        <begin>2010-04-20T03:30:00Z</begin>
                        <end>2010-04-25T15:30:00Z</end>
                </range>
                <range>
                        <member id="32" />
                        <begin>2010-04-12T07:30:00Z</begin>
                        <end>2010-04-21T21:30:00Z</end>
                </range>
        </ranges>
</results>
```

Definitions

```
ranges          - container for time off date-time info
→ range         - specific time off date-time info
  → member      - specific member information
    id (member) - Aladtec unique identifier for member
  → begin       - date-time of the beginning of time off range
  → end         - date-time of the ending of time off range
```

getTimeOff *- CONTINUED*

Example 2 of 3

Information Submitted

```
cmd → getTimeOff
bt → 2010-04-01T15%3A00%3A00Z
et → 2010-04-30T15%3A00%3A00Z
ipto → 1
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<ranges>
		<range>
			<member id="42" />
			<begin>2010-04-20T03:30:00Z</begin>
			<end>2010-04-25T15:30:00Z</end>
			<paid />
		</range>
		<range>
			<member id="32" />
			<begin>2010-04-12T07:30:00Z</begin>
			<end>2010-04-21T21:30:00Z</end>
			<paid>
				<range>
					<begin>2010-04-15T014:30:00Z</begin>
					<end>2010-04-15T22:30:00Z</end>
				</range>
				<range>
					<begin>2010-04-16T014:30:00Z</begin>
					<end>2010-04-16T22:30:00Z</end>
				</range>
				<range>
					<begin>2010-04-17T014:30:00Z</begin>
					<end>2010-04-17T22:30:00Z</end>
				</range>
				<range>
					<begin>2010-04-18T014:30:00Z</begin>
					<end>2010-04-18T22:30:00Z</end>
				</range>
				<range>
					<begin>2010-04-19T014:30:00Z</begin>
					<end>2010-04-19T22:30:00Z</end>
				</range>
			</paid>
		</range>
	</ranges>
</results>
```

Definitions

```
ranges          - container for time off date-time info
→ range         - specific time off date-time info
  → member      - specific member information
    id (member) - Aladtec unique identifier for member
  → begin       - date-time of the beginning of time off range
  → end         - date-time of the ending of time off range
  → paid        - container for paid time off date-time info
    → range     - specific paid time off date-time info
      → begin   - date-time of the beginning of paid time off range
      → end     - date-time of the ending of paid time off range
```

getTimeOff *- CONTINUED*

Example 3 of 3

Information Submitted

```
cmd → getTimeOff
bt → 2010-04-01T15%3A00%3A00Z
et → 2010-04-30T15%3A00%3A00Z
itot → 1
```

Information Returned

```
<?xml version="1.0" encoding="UTF-8"?>
<results version="3.5.1" accessTime="2016-03-03T15:52:01Z">
	<ranges>
		<range>
			<member id="42" />
			<type>Personal Time</type>
			<begin>2010-04-20T03:30:00Z</begin>
			<end>2010-04-25T15:30:00Z</end>
		</range>
		<range>
			<member id="32" />
			<type>Vacation</type>
			<begin>2010-04-12T07:30:00Z</begin>
			<end>2010-04-21T21:30:00Z</end>
		</range>
	</ranges>
</results>
```

Definitions

```
ranges          - container for time off date-time info
→ range         - specific time off date-time info
  → member      - specific member information
    id (member) - Aladtec unique identifier for member
  → type        - specific time off type information
  → begin       - date-time of the beginning of time off range
  → end         - date-time of the ending of time off range
```

Errors

Any HTTP response code other than 200 or 3xx should be considered an error.

The URL you were originally given by Aladtec is subject to change at the discretion of Aladtec. If your URL does change, you will receive a 3xx HTTP response. The response will include a "Location:" header that will point to a new URL that you can use to access the XML API for your system.

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

100 - Time Types for Schedule Time Disabled
101 - Time Off Disabled
102 - Time Clock Disabled
103 - Time Clock Pay Codes Disabled
```

Programming Examples

NOTE: You will need your own personal values for accid and acckey. Please contact Aladtec, Inc. to request your own authentication codes.

KEEP THE VALUES OF accid and acckey SAFE. ANYONE WHO HAS ACCESS TO THIS INFORMATION WILL BE ABLE TO USE IT TO RETRIEVE DATA FROM YOUR 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="<Aladtec assigned URL>" method="POST">
           <input type="hidden" name="accid" value="<Aladtec assigned accid>">
           <input type="hidden" name="acckey" value="<Aladtec assigned acckey>">
           <input type="hidden" name="cmd" value="getMembers">
           <input type="submit" value="Get Data">
        </form>

        <h1>getScheduledTimeRanges example</h1>
        <form action="<Aladtec assigned URL>" method="POST">
           <input type="hidden" name="accid" value="<Aladtec assigned accid>">
           <input type="hidden" name="acckey" value="<Aladtec assigned acckey>">
           <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="<Aladtec assigned URL>" method="POST">
           <input type="hidden" name="accid" value="<Aladtec assigned accid>">
           <input type="hidden" name="acckey" value="<Aladtec assigned acckey>">
           <input type="hidden" name="cmd" value="getSchedules">
           <input type="submit" value="Get Data">
        </form>
    </body>
</html>
```

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

```
<?php

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

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

    curl_setopt( $cs, CURLOPT_URL, '<Aladtec assigned URL>' ) ;
    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 ) ;

?>
```

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

```
<?php

$post_vars = array(
    'accid' => '<Aladtec assigned accid>'
    , 'acckey' => '<Aladtec assigned acckey>'
    , 'cmd' => 'getSchedules'
) ;

$cs = curl_init() ;

curl_setopt( $cs, CURLOPT_URL, '<Aladtec assigned URL>' ) ;
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" ;
}

?>
```