chicago transit authority customer alerts API documentation

Introduction

The customer alerts API allows for querying, with an XML document as output, data from the transitchicago.com customer alerts database.

Alerts are added and updated throughout the day. Each entry is marked for how it affects services, ranked based on its level of impact on services, has descriptive headlines and text, and is associated with both routes and stations which are notably affected by the issue. This allows the information to be processed for a variety of uses, and also powers what we think is a highly-detailed, rich API.

Note that, in using this API, you must agree to our <u>License Agreement and Terms of Use</u>.

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About this document

What this document covers

This document explains how to request information and what information is provided through the two alerts-related APIs.

What this document does not cover

This document does not cover information provided through the Google Transit Feed Specification data package or the CTA Bus Tracker API. Visit http://www.transitchicago.com/developers for more information on these other data services from CTA.

How information is added

Data in this system is manually entered into our communications systems by people who work at CTA, as information becomes available or known about something that can affect a service.

For planned work (such as construction-related activity, planned service changes, etc.), we generally enter this information in advance of events.

For unplanned incidents that affect service, such as when a street blockage requires us to reroute buses, the information is entered from our control center—a sort of nerve center for our 220+ mile rail system and ≈150 bus routes.

Information, once entered, appears on transitchicago.com, in our RSS feeds and in this API, in Bus Tracker, and in other places almost immediately.

Why we're providing this API

The hope is that, in places where travel information is either desired or deemed useful, that information about the state of CTA services can help people make empowered decisions about their trip. By providing an API into this information already published on our Web site, we hope to see applications of this information included in mobile device applications, public displays, Web sites and more.

Legal notice

By using this API, you agree to our Developer Terms of Use, which is in the appendix of this document. It's important that you, the developer, understand that this service is provided on an as-is basis and without any guarantees as to availability or accuracy. You must read and agree to the full Developer Terms of Use to use this API.

A few definitions...

There are a few bits of lingo that you'll find in this document (we'll try to keep it to a minimum) that we'd like to explain first, so you know what we're talking about.

Affected service – This merely describes *a thing* that is affected by an event. Specifically, affected services can include bus routes, train routes and train stations. We generally associate affected services based on where notice is helpful. For example, an elevator being out-of-order is associated with both the station and the routes that serve it.

Active alert – An "active" alert is defined as one that is presently affecting a service (in other words, its start time is before 'now' and its end time is after 'now').

Severity score – This score is a numeric ranking between 1 and 99 (see appendix) to indicate how severely (or not) an alert affects service. Planned events and events that affect only a portion of our customers are generally ranked lower than unplanned events affecting a service. Further, things that may require people to change their travel behavior are ranked higher than things that cause, for example, a delay of only a few minutes.

Google Transit Feed Specification (GTFS) – This is a "common format for public transportation schedules and associated geographic information." GTFS is used by hundreds of transit agencies to feed service information to Google™. A GTFS package is generated, as needed, by transit agencies and can be distributed as a simple .zip file with several comma-delimited text files inside. You can read more about GTFS on Google Code. For consistency, the same route IDs and stop IDs are used throughout the Bus Tracker system, the Alerts system as are specified in the CTA GTFS feed (with a few special exceptions—see appendix).

The Route Status API

Description

The Route Status API returns results that describe service's ultimate status in a well-formed XML document.

By default, this API will give the status of all bus and train routes.

Each routeinfo element in the XML output contains some basic route information, the URL of that route's page on transitchicago.com, and the ultimate status of that route.

Base URL

http://www.transitchicago.com/api/1.0/routes.aspx

Parameters:

Use URL query string method.

Name	Value	Description
type	Comma-delimited list of desired service types	Valid values for "type" include: • bus • rail • station • systemwide Specify any combination by separating multiple terms with commas (no spaces). Default is "bus,rail,systemwide".
routeid	Single or multiple route ID(s)	If specified (comma delimit multiple values), determines which routes' statuses to return list, based on unique route IDs. Matches GTFS route IDs.
stationid	Single or multiple station ID(s)	If specified (use one station only), determines which station to return, based on unique station ID. Matches GTFS station IDs.

Response fields:

Name	Description
CTARoutes	Root element
./TimeStamp	Shows time when response was generated in format: yyyyMMdd HH:mm (24-hour time)
./ErrorCode	Returns numeric error code, or "0" if no error
./ErrorMessage	Returns error description, or empty if none to describe
./RouteInfo	Element contains details for each route returned
././Route	Name of route being described
././RouteColorCode	Hexadecimal RGB color value for route's color, as <i>rrggbb</i>
././RouteTextColor	Hexadecimal RGB color value of suggested text if placed on background of route color code
././ServiceId	Unique routeid or stationid, as appropriate. Matches Google Transit Feed Specification codes. (see appendix)
././RouteURL	URL of the route or station's "home page" on transitchicago.com
././RouteStatus	The route's ultimate status, described in text (Normal service, Planned work, Minor delays, etc.)
././RouteStatusColor	A suggested color associated with this status

Remarks:

The ultimate status is based on the highest severity score of any active alert that is associated with a given service. In other words, if multiple events are affecting a service, the most impactful event is what determines its status.

There are three systemwide categories that appear in the output of this API as though each is its own route. The ultimate status of a "systemwide" entry is not based on the statuses of individual routes, nor does the existence of an "all bus routes" systemwide alert automatically change the status of each individual route—it's essentially an umbrella category for broad notifications, and it's up to you whether or not you incorporate systemwide logic into your application. See the appendix for more information.

Schema

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"</pre>
xmlns:xs="http://www.w3.org/2001/XMLSchema">
   <xs:element name="CTARoutes">
       <xs:complexType>
          <xs:sequence>
              <xs:element name="TimeStamp" type="xs:string" />
              <xs:element name="ErrorMessage" type="xs:string" />
              <xs:element maxOccurs="unbounded" name="RouteInfo">
                  <xs:complexType>
                     <xs:seauence>
                         <xs:element name="Route" type="xs:string" />
                         <xs:element name="RouteColorCode" type="xs:string" />
<xs:element name="RouteTextColor" type="xs:string" />
                         <xs:element name="ServiceId" type="xs:string" />
                         <xs:element name="RouteURL" type="xs:string" />
                         <xs:element name="RouteStatus" type="xs:string" />
```

Example

Request:

http://www.transitchicago.com/api/1.0/routes.aspx?routeid=red

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<CTARoutes>
  <TimeStamp>20091201 13:37</TimeStamp>
  <ErrorCode>0</ErrorCode>
  <ErrorMessage />
  <RouteInfo</pre>
     <Route>Red Line</Route>
     <RouteColorCode>b71234
     <RouteTextColor>ffffff</RouteTextColor>
     <ServiceId>Red</ServiceId>
     <RouteURL>
       <![CDATA[ http://www.transitchicago.com/riding_cta/systemguide/redline.aspx ]]>
     </RouteURL>
     <RouteStatus>Normal Service
     <RouteStatusColor>404040/RouteStatusColor>
  </RouteInfo>
</CTARoutes>
```

Detailed Alerts API

Description

The Detailed Alerts API returns full details of alerts in the database as results in a well-formed XML document.

Each alert element has a unique ID number, multiple kinds of descriptive text, an event start date/time and an end date/time (if known), a URL for the individual alert on transitchicago.com, information to define the level of impact an alert has on a given service and a listing of services (by way of one or more service elements) to which the alert applies.

Only alerts that are active or which occur in the future are returned.

Base URL

http://www.transitchicago.com/api/1.0/alerts.aspx

Parameters:

Use URL query string method.

Name	Value	Description
activeonly	Boolean	Default is FALSE. If TRUE, response yields events only where the start time is in the past and the end time is in the future or unknown.
accessibility	Boolean	Default is TRUE. If FALSE, response excludes events that affect accessible paths in stations.
planned	Boolean	Default is TRUE. If FALSE, response excludes common planned alerts. Otherwise, result does include planned alerts.
routeid	Single or multiple route ID(s)	If specified (comma delimit multiple values), determines which routes' statuses to return list, based on unique route IDs. Matches GTFS route IDs.
stationid	Single or multiple station ID(s)	If specified (comma delimit multiple values), determines which stations to return, based on unique station IDs. Matches GTFS station IDs.
bystartdate	yyyyMMdd	If specified, yields events with a start date before the one specified (excludes events that don't begin until on or after the specified point in the future).

recentdays integer	If specified, yields events that have started within <i>x</i> number of days before today (excludes events that began further in the past than the specified number of days).
--------------------	---

Response fields:

Name	Description
CTAAlerts	Root element
TimeStamp	Shows time when response was generated in format:
	yyyyMMdd HH:mm (24-hour time)
ErrorCode	Returns numeric error code, or "0" if no error
ErrorMessage	Returns error description, or empty if none to describe
Alert	Container element for an individual alert
./AlertID	Unique ID# of alert
./Headline	Alert headline
./ShortDescription	Short description of alert
./FullDescription	Full description of alert (in CDATA wrapper)
./SeverityScore	Numerical score from 0-99 to rank alert's severity, based on impact
	had on overall service
./SeverityColor	Hexadecimal RGB code used to define alert severity text on
10	transitchicago.com
./SeverityCSS	Category for alert used to pick icon and display style of alert (four possible results: normal, planned, minor or major)
/Impact	Descriptive text of impact this alert has on service (Minor delays,
./Impact	Planned reroute, Accessibility Status, etc.)
./EventStart	Start datetime of alert in yyyyMMdd HH:mm (time shown only if
	specified)
./EventEnd	End datetime of alert, if known (empty element if alert has open end)
./TBD	0 = alert has defined end time, 1=alert is open-ended (indefinite alert
	such as station opening, unplanned alert with no end time known)
./MajorAlert	0 = not a major alert, 1 = is a major alert (this means we're defining
	this alert as one of major significance; means we're showing the
(AL (UD)	"redbar" on the top of transitchicago.com pages)
./AlertURL	URL of alert detail page for this alert on transitchicago.com
./ImpactedService	Container element for all affected services (one per alert)
././Service	Container element for individual affected service (may be several per ImpactedService container)
./././ServiceType	Code to indicate type of service affected:
	X = systemwide-type classification
	R = train service
	B = bus service
	T = train station
./././ServiceTypeDescription	Plain English description of ServiceType code

./././ServiceName	Route, Station, or Systemwide service group name (e.g., Garfield
	Express, North/Clybourn, All Bus Routes)
./././ServiceID	Unique identifier for each route or station, matching GTFS route and
	station IDs (systemwide service groups excluded, as they are unique
	to this service)
./././ServiceBackColor	Hexadecimal RGB color value for route's color, as <i>rrggbb</i>
./././ServiceTextColor	Suggested color of text when shown atop the ServiceBackColor
./././ServiceURL	URL of this service's "home page" on transitchicago.com (in CDATA
	wrapper)

Schema

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"</pre>
xmlns:xs="http://www.w3.org/2001/XMLSchema">
   <xs:element name="CTAAlerts">
       <xs:complexType>
          <xs:sequence>
              <xs:element name="TimeStamp" type="xs:string" />
              <xs:element name="ErrorMessage" type="xs:string" />
              <xs:element maxOccurs="unbounded" name="Alert">
                 <xs:complexType>
                     <xs:sequence>
                         <xs:element name="AlertId" type="xs:unsignedShort" />
                         <xs:element name="Headline" type="xs:string" />
                        <xs:element name="ShortDescription" type="xs:string" />
<xs:element name="FullDescription" type="xs:string" />
                        <xs:element name="SeverityScore" type="xs:unsignedByte" />
                         <xs:element name="SeverityColor" type="xs:string" />
                        <xs:element name="SeverityCSS" type="xs:string" />
<xs:element name="Impact" type="xs:string" />
                        <xs:element name="EventStart" type="xs:string" />
                         <xs:element name="EventEnd" type="xs:string" />
                         <xs:element name="TBD" type="xs:unsignedByte" />
                         <xs:element name="MajorAlert" type="xs:unsignedByte" />
                         <xs:element name="AlertURL" type="xs:string" />
                         <xs:element name="ImpactedService">
                            <xs:complexType>
                                <xs:sequence>
                                   <xs:element maxOccurs="unbounded" name="Service">
                                       <xs:complexType>
                                          <xs:sequence>
                                              <xs:element name="ServiceType" type="xs:string" />
                                              <xs:element name="ServiceTypeDescription" type="xs:string" />
                                              <xs:element name="ServiceName" type="xs:string" />
                                              <xs:element name="ServiceId" type="xs:string" />
                                              <xs:element name="ServiceBackColor" type="xs:string" />
                                              <xs:element name="ServiceTextColor" type="xs:string" />
                                              <xs:element name="ServiceURL" type="xs:string" />
                                          </xs:sequence>
                                       </xs:complexType>
                                   </xs:element>
                               </xs:sequence>
                            </xs:complexType>
                        </xs:element>
                     </xs:sequence>
                 </xs:complexType>
              </xs:element>
          </xs:sequence>
       </xs:complexType>
   </xs:element>
</xs:schema>
```

Example

Request:

http://www.transitchicago.com/api/1.0/alerts.aspx?routeid=53a

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<CTAAlerts>
  <TimeStamp>20090902 11:47</TimeStamp>
  <ErrorMessage />
  <Alert>
     <AlertId>3292</AlertId>
     <Headline>#53A South Pulaski New Bus Stop Added//Headline>
     <ShortDescription>A new southbound bus stop has been added on the northwest corner at
     Pulaski/36th.
     <FullDescription>
       <![CDATA[
       Effective Fri, Aug 21 <br />
        
       A new southbound bus stop has been added on the northwest corner at
       Pulaski/36th.
         11>
     </FullDescription>
     <SeverityScore>9</SeverityScore>
     <SeverityColor>000000</SeverityColor>
     <SeverityCSS>planned
     <Impact>Bus Stop Relocation</Impact>
     <EventStart>20090821</EventStart>
     <EventEnd />
     <TBD>1</TBD>
     <MajorAlert>0</MajorAlert>
     <AlertURL>
       <![CDATA[
       http://www.transitchicago.com/travel_information/alert_detail.aspx?AlertId=3292
         ]]>
     </AlertURL>
     <ImpactedService>
       <Service>
          <ServiceType>B</ServiceType>
          <ServiceTypeDescription>Bus Route/ServiceTypeDescription>
          <ServiceName>South Pulaski
          <ServiceId>53A</ServiceId>
          <ServiceBackColor>059</ServiceBackColor>
          <ServiceTextColor>ffffff</ServiceTextColor>
          <ServiceURL>
            <![CDATA[
            http://www.transitchicago.com/riding_cta/bus_route.aspx?RouteId=207
          </ServiceURL>
       </Service>
     </ImpactedService>
  </Alert>
  <Alert>
     <AlertId>3258</AlertId>
```

```
<Headline>Later, More Frequent Weekend Service</Headline>
     <ShortDescription>Service is being increased to provide more convenient travel options
     in the South Pulaski Road corridor.
     <FullDescription>
     <![CDATA[
     <strong>Effective Sun, Sep 6<br />
     <br />
    How does this affect my trip? <br />
     </strong>Later evening service will run on Saturdays and Sundays. Service will operate
     south to Pulaski/111th until 10:20pm and to Pulaski/81st until 11pm. <br/> <br/> <br/> />
     <br />
    More frequent weekend service will operate in both directions between 31st/Pulaski and
    Pulaski/111th. <br />
    Saturday and Sunday service will operate every 15 minutes. <br />
     <br />
     <strong>Why is service being changed? <br />
     </strong>Service is being increased to provide more convenient travel options in the
    South Pulaski Road corridor.
       11>
     </FullDescription>
     <SeverityScore>11</SeverityScore>
     <SeverityColor>000000</SeverityColor>
     <SeverityCSS>normal</SeverityCSS>
     <Impact>Added Service</Impact>
     <EventStart>20090906</EventStart>
     <EventEnd />
     <TBD>1</TBD>
     <MajorAlert>0</MajorAlert>
     <AlertURL>
     <![CDATA[
    http://www.transitchicago.com/travel information/alert detail.aspx?AlertId=3258
      11>
     </AlertURL>
     <ImpactedService>
       <Service>
       <ServiceType>B</ServiceType>
       <ServiceTypeDescription>Bus Route/ServiceTypeDescription>
       <ServiceName>South Pulaski
       <ServiceId>53A</ServiceId>
       <ServiceBackColor>059</ServiceBackColor>
       <ServiceTextColor>fffffff</ServiceTextColor>
       <ServiceURL>
          <![CDATA[
          http://www.transitchicago.com/riding_cta/bus_route.aspx?RouteId=207
            ]]>
       </ServiceURL>
       </Service>
     </ImpactedService>
  </Alert>
</CTAAlerts>
```

Appendices

Appendix A: Route IDs

CTA Bus

As of the writing of this document, all bus route IDs match the bus route's alphanumeric identifier. Routes 55, 55A, 55N, and X55 are all identified, simply, as such. This is also true in the Google Transit Feed Specification package.

CTA 'L'

'L' routes (rapid transit train services) are identified as follows:

- Red = Red Line (Howard-95th/Dan Ryan service)
- Blue = Blue Line (O'Hare-Forest Park service)
- Brn = Brown Line (Kimball-Loop service)
- G = Green Line (Harlem/Lake-Ashland/63rd-Cottage Grove service)
- Org = Orange Line (Midway-Loop service)
- P = Purple Line (Linden-Howard shuttle service)
- Pexp = Purple Line Express (Linden-Loop service, via express)
- Pink = Pink Line (54th/Cermak-Loop service)
- Y = Yellow Line (Skokie-Howard [Skokie Swift] shuttle service)

Systemwide classifications

In the Route Status API, the Route element, and in the Detailed Alerts API, the ServiceName element, are essentially equivalents. Systemwide-type alerts and the status of systemwide-level alerts is defined using these three classifications:

- Systemwide = All Routes
- Bus = All Bus Routes
- Train = All Train Routes

Appendix B: About systemwide alerts

We have three special service types in our system for use to generate "systemwide" notices.

In the Route Status API, these appear like any other route, but separate from other routes. For example, if there are no systemwide alerts, the "All Routes", "All Bus Routes," and "All Train Routes" entries in the results will all simply show as normal service—regardless of whether or not there is an alert, because, as a whole, the system isn't affected by one single event.

Because these are authored separately from detailed impact statements, "systemwide" alerts do not cause a change in the status of the specific routes to which they apply. Thus, a "systemwide" alert that applies to all bus routes may exist, but individual routes' statuses can remain "normal." In the inverse, individual routes' statuses don't have an impact on this conceptual "systemwide" status.

In the Detailed Alerts API, any alerts that apply to the whole system will have one or more "systemwide" items listed as the affected services. Separately, details about specific impact to separate routes may be added on a route-by-route (or group of routes) basis for users of those services. No single alert will have a combination of both systemwide and individual routes.

Essentially, the "systemwide" entries are treated as separate entities, to allow for greater flexibility in how things are displayed in each application of this data. In your own applications, we leave it up to you to determine if or how you apply logic to these two separate service-type concepts.

See appendix for details on route ID possibilities, including the special "systemwide" category.

Appendix C: Station IDs

Each bus or train stop on the CTA system, as you'll see if you look at the "stops" table in <u>our Google Transit Feed Specification feed</u>, has its own unique identifier. This helps to power trip planners such as the Google Maps transit directions capability in identifying precise locations where vehicles make stops.

Note, however, that in the GTFS data, most train stations have three entries in the stops table—one in each direction, with a "parent station" identified. We've numbered all of our station stops in the format 3xxxx, with the parent entries for train stations with 4xxxx. The Alerts API identifies stations by their parent station number, with a corresponding 4xxxx in the database.

Thus, in the GTFS "stops" table, Wellington (Brown Line/Purple Line Express) station appears in the following rows as:

```
30231,,"Wellington",41.936033,-87.653266,0,41210,1 30232,,"Wellington",41.936033,-87.653266,0,41210,1 41210,,"Wellington",41.936033,-87.653266,1,,0
```

Then, in the Detailed Alerts results, an alert that affects Wellington would have Wellington listed with ServiceId 41210.

Appendix D: Alert Severity Levels

Each alert is tagged with a "severity level" score from 1-99.

As of publication of this document (these groups are subject to change), here's how they they're grouped:

• 1-19 Accessibility and informational alerts

This range includes alerts related to accessible paths, as well as special notes about service and information about added service.

20-39 Planned/anticipated events affecting bus and train service

This range includes notices about planned work, service changes and reroutes that are anticipated (parade reroutes, for example) which potentially affect all users of a named service.

40-59 Minor delays and reroutes affecting bus and train service

This range includes notices about unanticipated minor delays and reroutes that affect all users of a named service.

• 60-79 Significant delays and reroutes affecting bus and train service

This range includes notices about unanticipated significant delays (sporadic or consistent) and reroutes that affect all users of a named service.

• 80-99 Major delays and service disruptions

This range includes alerts about unanticipated major delays and service disruptions where a service is significantly impacted by an event, and considering service alternatives may be advisable.

How do we decide?

It's not as simple as defining a number of minutes before something is classified as "significant" or "major" as transit systems are complex systems.

Specialists who enter alerts in the CTA Control Center make decisions on how to describe the severity of an event based on when it's occurring, how many people it's likely to inconvenience, and how substantial the impact is in the scheme of service itself.

We try to consider a variety of things in describing incidents, based on our wealth of experience in understanding not just service impact, but customer impact when an unavoidable delay occurs.

Appendix E: Error Codes

Route Status API errors

Error code	Error message
0	Normal (empty <errormessage> element)</errormessage>
100	Invalid option for parameter 'stationid': Value must be an integer
101	Invalid option for parameter 'type': Valid options are 'bus', 'rail', 'station' or 'systemwide'
102	Invalid option: 'routeid' and 'stationid' parameters cannot be used together
103	Invalid option: 'routeid' and 'type' parameters cannot be used together
104	Invalid option: 'stationid' and 'type' parameters cannot be used together
500	Invalid parameter: 'parameter'
900	Server error

Detailed Alerts API errors

Error code	Error message
0	Normal (empty <errormessage> element)</errormessage>
25	There are no active alerts
50	There are no active alerts based on your filter criteria
100	Invalid option for parameter 'activeonly': Valid options are 'true', 'false'
101	Invalid option for parameter 'accessibility': Valid options are Valid options are 'true', 'false'
102	Invalid option for parameter 'planned': Valid options are Valid options are 'true', 'false'
103	Invalid option for parameter 'stationid': Value must be an integer
104	Invalid option for parameter 'bystartdate': Value must be a valid date in 'yyyyMMdd' format
105	Invalid option for parameter 'recentdays': Value must be an integer
106	Invalid option: 'routeid' and 'stationid' parameters cannot be used together
107	Invalid option: 'recentdays' and 'bystartdate' parameters cannot be used together
500	Invalid parameter: 'parameter'
900	Server error

Appendix F: Developer License Agreement and Terms of Use

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Indemnification

Licensee agrees to indemnify, defend and hold harmless CTA and its officers, directors, and employees from and against all fines, suits, proceedings, claims, causes of action, demands, or liabilities of any kind or of any natures arising out of or in connection with Licensee's use of CTA Data.

Limitation on Liability

Licensee agrees that CTA and its employees, officers, directors and agents will not be liable for damages of any kind arising from the use of CTA Data including but not limited to direct, indirect, incidental, punitive and consequential damages regardless of whether such damages arise based upon contract, negligence, strict liability in tort, warranty or other legal theory.

Binding Effect

The terms of this Agreement shall be binding upon the Licensee and the CTA. None of the rights, duties or obligations under this Agreement may be assigned without the express written consent of the CTA. Once properly assigned, in accordance with the rules and regulations of each party, this Agreement shall be binding upon and inure to the benefit of the successors and assigns of the parties as if they were parties of this Agreement.

Severability

To the extent a court of competent jurisdiction determines that any part or provision of this Agreement is unenforceable as a matter of law, such part or provision of this Agreement will be deemed severable and the remainder of this Agreement shall survive and remain enforceable.

Applicable Law and Forum

The laws of the State of Illinois govern all rights and obligations under this Agreement, without giving effect to any principles of conflicts of laws.

Any use of the CTA Data shall be deemed made in the State of Illinois, USA, regardless of the location of the Licensee. The Licensee agrees that any dispute with the CTA arising out of any use of the CTA

Data or this Agreement shall be brought by the Licensee exclusively in the state or federal courts situated in Cook County, State of Illinois. The Licensee hereby agrees that such venue is appropriate.

The Licensee and the CTA will at all times observe and comply with all applicable laws, ordinances, rules, regulations and executive orders of Federal, state and local government entities, now existing or hereinafter in effect, which may in any manner affect the performance of this Agreement. Provision(s) required by law, ordinances, rules, regulations or executive orders to be inserted herein will be deemed inserted herein whether or not they appear in this Agreement or, upon application by either party, this Agreement will forthwith be amended to literally make such insertion; however, in no event will failure to insert such provision(s) prevent the enforcement of this Agreement.

Entire Agreement

This Agreement constitutes the complete and exclusive agreement between CTA and Licensee with respect to the subject matter hereof and supersedes all prior oral or written understandings, communications, or agreements not specifically incorporated herein. CTA reserves the right to modify or revoke this Agreement at any time.

No Waiver

Waiver by CTA of strict performances of any provision of this Agreement will not be a waiver of or prejudice CTA's right to require strict performance of the same provision in the future or of any other provision of this Agreement.

Disclaimer

No provision of this Agreement, nor any act of the Licensee, or the CTA shall be deemed or construed by either of the parties, or by third persons, to create any relationship of third party beneficiary, or of principal or agent, or of limited or general partnership, or of joint venture, or of any association or relationship involving the Licensee and the CTA.