

# First Widget ITMS API

[ Base URL: [api.firstwidget.com/itms/api/](http://api.firstwidget.com/itms/api/) ]

The ITMS is an API that manages the integrity of First Widget employees. It provides the following methods:

- Employee information: get, insert, update or delete
- National Crime Database (NCDB): get and insert an alert about an employee.
- Credit Bureau (CB): get and insert employee financial activity

In addition to the web methods, the API accepts web sockets from clients to push notifications of alerts received from the National Crime Database and from the Credit Bureau.

The API is accessible to authorized clients only. An authorized client needs to pass an API key with each request as an HTTP header named Authorization.

## Employee Information

GET	employee/{SSN}	Employee information by Social Security Number
POST	employee	Insert employee information
PUT	employee	Update employee information
DELETE	employee/{SSN}	Delete employee record

Employee GET, POST and PUT use the following json object:

```
{
  SSN:<9 digits, required for POST and PUT>,
  first_name:<string 20 chars max, optional for POST and PUT>,
  last_name:<string 250 chars max, optional for POST and PUT>,
  address:<string 250 chars max, optional for POST and PUT>,
  city:<string 50 chars max, optional for POST and PUT>,
  state:<string 50 chars max, optional for POST and PUT>
}
```

## National Crime Database

This method will be called by NCDB whenever an alert is generated by NCDB.

POST	ncdb/alert	Insert an alert for an employee by SSN
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Body:

```
{
  SSN:<9 digits, required for POST and PUT>,
  alert_message:<string>
}
```

## Credit Bureau

This method will be called by CB whenever an alert is generated by CB.

POST	cb/alert	Insert an alert for an employee by SSN
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Body:

```
{
  SSN:<9 digits, required for POST and PUT>,
  alert_message:<string>
}
```

## Client Notification of Incoming Alert

ITMS provides websocket implementation per RFC 6455 specifications. The URL for the incoming alerts from NCDB and CB is:

wss://api.firstwidget.com/itms/socketserver

The format of the message from the API to the client is a json object:

```
{
  SSN:<9 digits, required for POST and PUT>,
  alert_message:<string>
}
```