

Before we get started....

- ✓ Please mute your phone!
- ✓ If you have a question, feel free to use the chat window on the Go To Meeting Toolbar





REST API opens a host of advanced integration options to our customers

- 1. Integrates form data with your back-end systems
 - Function with most programming languages
- 2. Organizes very complex application data the way you want
- 3. Gives you a simple framework to work with
 - Use standard HTTP request methods with or without SSL and JSON data format
 - It's much more simple than SOAP
- 4. Securely automates data communication between your back office system and Strider
 - Operating system and programming language agnostic
 - High performance stateless network interface
 - Compatible with firewalls, proxies, etc.
- 5. Allows you to put data into Strider from your back-end systems



Strider Rest API Overview

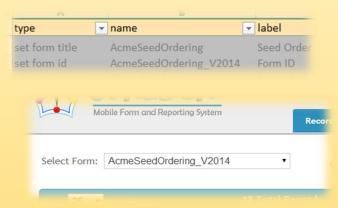
- Representational State Transfer (REST)
- Communications will be in JSON (JavaScript Object Notation) (media type "application/json")
- Communications can be secured with SSL
- "Basic access Authentication" used, so use of SSL is highly recommended.
- Examples in the demo will be in C# using a console application



The URL Structure

https://forms.agterra.com/api/{FormId}/{Action}/{ID}

The Form Id



Actions

- 1. Get Get Single Entry (GET, Id Required)
 - a. Single by ID
- 2. Filtered Get multiple entries based on queries. (POST)
 - a. Query Objects expected (by post)
 - i. IsAnd BOOL (true false)
 - ii. FilterName STRING
 - iii. Operator STRING (=, >, <, <=, >=, !=, <>, !<, !>)
 - iv. Value STRING ("Null" Translated into DB NULL)
- 3. Put Update Entry(POST, Id Required)
 - a. Bypasses business logic (Constraints, calculates, etc)
- 4. Post Create entry(POST)
 - a. Bypasses business logic (Constraints, calculates, etc)
- 5. Delete Delete Entry(GET, Id Required)



Strider Rest API – Expected JSON

```
1
        "Expenses V2": [
 3
             " ID": 10,
             " CREATOR USER ID": "3
             " CREATION DATE": "201
             " LAST UPDATE USER ID"
            " LAST UPDATE DATE": "
 8
             "purpose": "Wyoming Se
             "start": "2013-11-12T1
            "end": "2013-11-14T13:
11
            "reimbtotal": 0.000000
12
            "trip notes": null,
            "sig": "/9j/4AAQSkZJRg
13
14
        }],
15
        "travelcostgroup": [{
16
             " ID": 111,
             " PARENT ID": 10,
18
             "expense item": "Emplo
19
            "quest": "No",
            "reimbursable": "No",
```

Tip: When starting, its always good to write the JSON to a file for easy review and to see what should be expected.

- Main Table (Main Form)
- Sub-Tables (Repeat Data)
- Images are Base64 encoded data
- Metadata columns are not updatable
- Field names are the same as in the XLS spreadsheet
- GeoPoint fields are appended with _LAT, _LNG, _ALT, _ACC





Expected changes

- ID will become optional on Post and Filtered queries
- User GUIDs will be translated into usernames.

1 Visual Studio Express can be downloaded for free C# project posted on the AgTerra website.

www.AgTerra.com

Look for the "strider updates" blog post (Use the search)

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