Tablet API (ALT - Anoto Live tablet)

If working on this project, please bear in mind that it needs to work with **BOTH** Formidable 2.13 *AND* Live forms releases. This will remain the case until all customers can be suitably migrated to the ALF platform.

Things that the API needs to do

- 1. Login/Authentication COMPLETE
 - Basic HTTP authentication, already provided and not managed by API
- 2. List of form templates/models COMPLETE
 - o Name, Description, ID, Created Date, Modified Date
- 3. Download of form template with background image COMPLETE
 - o Config XML and background PNG's (base 64 encoded files PNG's are cached for speed)
- 4. List of submissions by form COMPLETE
 - Ideally we can grab a paged list of 20-50 submissions at a time.
 - Each item in list would contain: formIdentifier, Last Editor, Last Edit Date, Form State (Valid/Invalid, mandatory fields etc), form reference/key fields (if available)
- 5. Get form data by form Identifier COMPLETE
 - o For integration into the form layout.
 - This is no longer going to take place. No stroke capable forms will be available to tablet devices. There are too many sync issues which could also introduce trust issues. We are also not building a "Viewer" for the tablet. ~~Retrieval of the strokes on a page by page basis, either by themselves or rendered onto the background would allow pen data display within the tablet editor.~~
- 6. Update form data by form Identifier.
 - o To update text fields, radio/check boxes, ideally by sending a single xml document to the server.
 - An additional call to update drawing/signature fields would be a good feature.
- 7. Begin a new form.
 - To create and assign pattern to a form with new data.
 - This would need to be a synchronous call to return the new formIdentifier.
 - o For the ALE implementation we were able to use the pre-population API of the platform.
- 8. Get last modified date by formUnique (or by array of formUniques)
 - To allow tablet app to poll for changes to cached forms.
 - Better as a sub-function of point 5

Using the API

1. Listing the applications

URL endpoint: https://servername/alt/route/fetchapps

This will return an XML document with the following elements

Errors No errors should be generated by this call

2. Download form template with backgrounds

URL endpoint: https://servername/alt/route/fetchapp/appid/<appld>

• where <appld> comes from tablet->organisation->app->id in request 1.

This will return an XML document with the following elements

Errors This call could return one of the following errors. Only one error will appear at a time.

3. Get existing forms list

URL endpoint: https://servername/alt/route/formlist/appid/<appld>/next/<nextld>/limit/<limitDocs>

All of the following pairs are optional

- where <appld> comes from tablet->organisation->app->id in request 1. All documents accessible by the user will be returned when this is not present. With it, only documents for the specified application will be returned.
- where <nextld> is a doc ID. Only documents with an ID greater than this will be returned
- where where imitDocs> is a number, smaller numbers will return faster, but for most servers it won't make a difference.
 Only this number of results will be returned, or less if fewer than this are found

```
<?xml version="1.0"?>
1
2
    <tablet>
3
      <doc> <!-- Repeating block -->
<u>4</u>
<u>5</u>
        <id>1234</id> <!-- Document ID -->
        <appid>1</appid> <!-- Application ID -->
6
        <name>DocumentName< <!-- Doc Name, could be same as app name, modifie</pre>
    d by custom handler or set on tablet -->
        <address>0.0.0.1</address> <!-- Will always be 0.0.0.1 for tablet forms. No
    other forms will be sent back at present -->
        <last modified>yyy-mm-dd hh:mm:ss/last modified> <!-- The timestamp from t
10
    he last changeset/submission -->
      </doc>
    </tablet>
```

4. Get existing form data

URL endpoint: https://servername/alt/route/getdoc/docid/<docId>

• where <docld> comes from tablet->organisation->app->doc->id in request 3.

```
<?xml version="1.0"?>
 1
    <tablet>
      <page number="pNum">
        <field name="fName" type="fType">value</field> <!-- fType can be one of the
5
6
7
8
9
    following -->
        <field name="name" type="boxed">value</field>
        <field name="dob" type="textfield">value</field>
        <field name="text" type="textfieldmulti">Some value, may contain newlines</
    field>
10
        <field name="sex m" type="checkbox">Male</field>
        <field name="sex f" type="checkbox">false</field> <!-- false given as a val</pre>
   ue when field not marked, regardless of group member or not -->
        <field name="sex" type="group">Male</field> <!-- exists when fields are gro</pre>
    uped and takes value of last marked box c.f. HTML radio button -->
      </page>
    </tablet>
```

Errors This call could return one of the following errors. Only one error will appear at a time.

5. Update existing form data

URL endpoint: https://servername/alt/route/updatedoc/docid/<docId>

• where <docld> comes from tablet->organisation->app->doc->id in request 3.

Errors This call could return one of the following errors. Only one error will appear at a time.

6. Begin a new form

URL endpoint: https://servername/alt/route/startdoc/appid/<appld>

• where <appld> comes from tablet->organisation->app->id in request 1.

This will return an XML document with the following elements

Errors This call could return one of the following errors. Only one error will appear at a time.