codeREADr Postback with On-The-Fly Options

Normal postback information can be found at Postback Docs.

Example Scan Submit Flows

Normal Flow

1. App user scans value `A12X`

- Primary (first) submit to your Postback URL.
- Postback script determines `A12X` requires no questions.

2. Your server returns a *Normal Postback Response* with no on-the-fly questions.

- App displays response and the user can close or click **NEXT** to start another scan.

On-The-Fly Flow

1. App user scans value `A12X`
2. Primary (first) submit goes to your Postback URL.

- Postback script determines `A12X` **requires** more information.

3. Your server returns an *On-The-Fly Postback Response* with questions.

- App displays response asking your on-the-fly questions
- User answers questions and submits

4. Secondary submit goes to your Postback URL.

- Process the answers submitted in step 3.

- Determine if `A12X` still **requires** more information.
- Go back to *step 3* until satisfied.

5. Your server returns a *Normal Postback Response* with no on-the-fly questions.

- App displays response and the user can close or click **NEXT** to start another scan.

Normal Postback Response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xml>
    <message>
        <status>1</status>
        <text>Thanks for reviewing item 'A12X'</text>
    </message>
</xml>
```

On-The-Fly Postback Response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xml>
    <message>
        <status>1</status>
        <text>Please review item 'A12X'</text>
        <scanid>SCAN_ID_IF_DSU</scanid>
        <question id="123" type="manual" condition="post_submit">
            <text>Current Price</text>
            <answer id="1" autofill="1">$1,000.00</answer>
        </question>
        <question id="456" type="option" condition="post_submit">
            <text>Out of stock?</text>
            <answer id="2">Yes</answer>
            <answer id="3" autofill="1">No</answer>
        </question>
        <scan_display_config>
{
  "status_title_default":"Please Review",
  "status_color_default":"#d29935"
}
        </scan_display_config>
    </message>
</xml>
```

Nodes and Attributes Explained

Node	Attribute	Description
message		The main node that contains the postback response nodes. It's a child of the top level `xml` node.
status		Integer value representing the status of the scan (`1 = valid`, `0 = invalid`, `-1 = connection error`). Note that `-1` will prompt user to re-submit or save on-device. It's not a normal scan status.
text (inside message)		Response message for the scan record.
scanid		Optional - DSU (direct scan url) Postbacks can use it to identify the same scan record over multiple (secondary) submits if the scan value alone is not sufficient.
question		Node for defining a question on-the-fly. None (if any) of the default questions configured for the service will be asked if your postback response includes question nodes.
	id	A unique integer among all the questions you will ask to this service. Use IDs of questions created on codeREADr if scanning to codeREADr servers (i.e. not DSU).
	type	Type of question being asked (i.e. manualnumeric, dropdown)

Node	Attribute	Description
	condition	Set to `post_submit` as on-the-fly questions can only be asked on secondary submits in response to the primary scan submit.
text (inside question)		The label of the question being asked.
answer		Specifies the **text** of an answer option to the parent question. Include multiple nodes to specify multiple answers for types that expect it like `checkbox`, `dropdown`, `option` aka radiobutton.
	id	Unique integer among all the answer options of the parent question.
	autofill	Set to `1` to automatically fill in this answer in the UI of the parent question. This enables you to preload existing answers with data directly from your server.
scan_display_config		This allows you to override the default title and background color of the scan response view.

Question Type Examples

On-the-fly Notes.

- Use an empty question text node `<text></text>` to display question without a label.
- GPS question on-the-fly will not work if the service is not already configured to collect location.
- GPS question does not support `autofill`.
- Custom questions (type `webview`) and Photo and signature image collect questions (type `imagecollect`) are supported via question id already associated to the service.
- Remember to XML escape your question text and answer text.

Supported Types: `manual`, `manualmultiline`, `manualnumeric`, `barcode`, `barcodenumeric`, `barcodemultiline`, `imagecollect`, `option`, `checkbox`, `dropdown`, `gps`

```
  <question id="874965" type="manual" condition="post_submit">
     <text>Short Answer (Manual)</text>
  </question>
  <question id="874967" type="manualmultiline" condition="post_submit">
     <text>Short Answer (Manual Multiline)</text>
  </question>
  <question id="874966" type="manualnumeric" condition="post_submit">
     <text>Short Answer (Manual Numeric)</text>
  </question>

  <question id="7939" type="barcode" condition="post_submit">
     <text>Barcode Regular</text>
  </question>
  <question id="7938" type="barcodenumeric" condition="post_submit">
     <text>Barcode Numeric</text>
  </question>
  <question id="517854" type="barcodemultiline" condition="post_submit">
     <text>Barcode Multiline</text>
  </question>

  <question id="874971" type="option" condition="post_submit">
     <text>Multiple Choice (Single Answer)</text>
     <answer id="1477941">choice 1</answer>
     <answer id="1477942">choice 2</answer>
  </question>
  <question id="874972" type="checkbox" condition="post_submit">
     <text>Multiple Choice (Multiple Answer)</text>
     <answer id="1477943">Value 1</answer>
     <answer id="1477944">Value 2</answer>
  </question>
  <question id="874973" type="dropdown" condition="post_submit">
     <text>Multiple Choice (Drop-Down Menu)</text>
     <answer id="1477945">Option 1</answer>
     <answer id="1477946">Option 2</answer>
  </question>

  <question id="874290" type="gps" condition="post_submit">
     <text>You Location</text>
```

```
   </question>

   <question id="874970" type="webview" condition="post_submit">
      <text>My Custom Question</text>
   </question>

   <question id="874968" type="imagecollect" condition="post_submit">
      <text>ake or Choose Photo</text>
   </question>
   <question id="874969" type="imagecollect" condition="post_submit">
      <text>Sign for the package</text>
   </question>
```

On-the-fly questions leveraging ID

If you create the question on codereadr.com and associated it to the service using your postback, then when returning your response you only have to include details to the question that should be different from how it is defined in codereadr.com.

For example, on our website you may have created these questions and associated them to your service: question ID `123` (a Custom question with HTML source) and `456` (Image collect question uploading to Dropbox). Then on-the-fly you decide that you want to ask those questions but only needed to modify one of them with a different label and an answer autofilled.

You would return this:

```
<question id="123" required="1">
   <text>OVERRIDE LABEL</text>
   <answer autofill="true">My Answer...</answer>
</question>

<question id="456" />
```