

ODK Viewer

A tool to visualise ODK (version 1) data on Android devices

User Manual

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March 2014



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Introduction


Open Data Kit¹ (ODK) is a tool for collecting data on Android Mobile devices. It presents a survey as a series of pages with questions. One of the features of ODK is that the user can send data directly from the field to a server on the Internet. However, once the data have been sent it is not possible to edit and resend.

Monitoring research quality in the field is an important element of carrying out good research, along with data cleaning processes and other data management activities. This initial monitoring and reviewing of the data is an ideal time for capturing and correcting initial errors while the data collection activity is fresh in the mind of the enumerators. With standard ODK (Version 1) reviewing and correcting the data on the device before sending is difficult as it requires scrolling through the survey pages and questions individually which can take a lot of time for larger surveys with many tabular questions.

ODK Viewer is a tool that complements ODK by displaying on-device data in tabular form and easier reviewing and editing of data before transfer to the server.

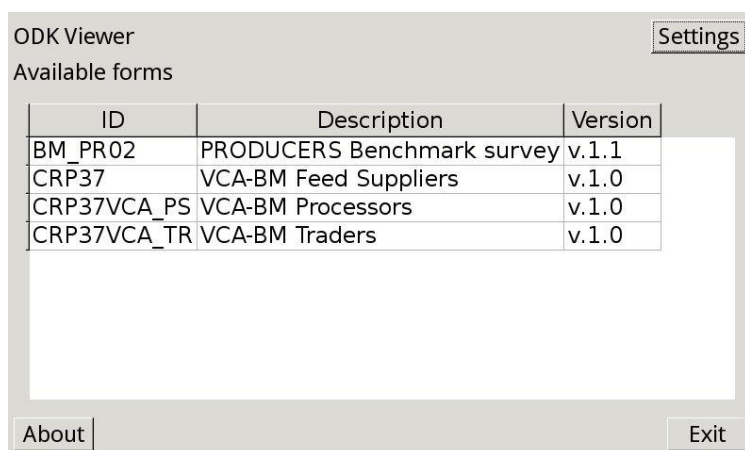
¹ Open Data Kit is Copyright of the University of Washington – version 1 was used in the development of ODK Viewer

Installation procedure

1. Download ODK Viewer APK from <http://data.ilri.org/apks/odkviewer.apk>
2. Set up your Android device to allow the 'installation of Apps outside Android App Store'
3. Using the Android File Manager App browse to the download directory on your device
4. Tap on the file "odkviewer.apk"; the device will ask to allow the installation; click install
5. ODK Viewer will appear in the installed Apps with the icon 

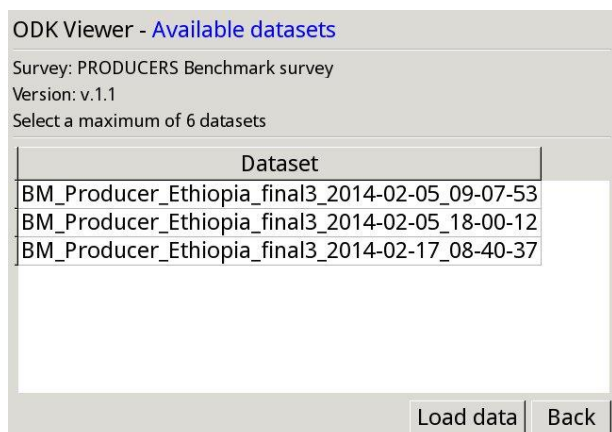
Usage

Tap on the ODK Viewer App; the "Form Selection" section will appear:



Note: By default ODK Viewer looks for ODK forms in "External Storage"/ODK/forms; to look in another location tap on your device's "Settings" button.

Select one form by tapping on it from the list of Available Forms. ODK Viewer will take a little time loading the datasets available for the selected form. Once they are loaded the "Select Dataset" section will appear showing each dataset:



On Android devices you can select up to three datasets at a time². Select one or more datasets by tapping on them from the list of available datasets. To load the data click on the “Load data button”; the “Data Editor” will appear:

Survey Structure: ODK stores data inside or outside repeats (*Series of questions that are repeated a certain number of times*). Data outside a repeat is stored in what ODK Viewer calls “Main Module”. Repeats can be inside the Main Module or inside another repeat. It is not easy to determine the description of every repeat from an ODK XML Form file therefore ODK Viewer shows the code of the repeats and not its description.

A column in **blue** represents categorical variables with a defined list of possible entries / values

NA values represent data that does not appear in the ODK XML data file. NA values cannot be changed – but should refer to cells which should be empty by definition

Changes made to the data are indicated as **red** cells.

ODK Viewer - Data editor

Survey: PRODUCERS Benchmark survey
Version: v.1.1

Hide/Show Structure Hide/Show Dataset Name

Survey Structure

- mainModule
 - rpt_secb
 - rpt_secc
 - rpt_secd
 - rpt_secg1_sheep
 - rpt_secg1_gt
 - rpt_secg_species
 - rpt_secg_inflowsh
 - rpt_secg_inflowgt
 - rpt_secg_outflows
 - rpt_secg_outflowE
 - rpt_sech1_salegts
 - rpt_sech1_salegt
 - rpt_sech2_purcgt
 - rpt_sech2_purcgt

	Name	B1. Relationship to HH head	B1. Other(specify)	B2. Gender	B3. Age	B4. Mar
BM_Producer_Ethiopia_final3_2014-02-05_09-07-53	Campos	3	NA	1	5.0	7
BM_Producer_Ethiopia_final3_2014-02-05_18-00-12	Quiros	1	NA	1	56.0	3
BM_Producer_Ethiopia_final3_2014-02-17_08-40-37	Carlos	1	NA	1	23.1	4
BM_Producer_Ethiopia_final3_2014-02-17_08-40-37	Fernando	1	NA	1	23.0	4

Edit Cell Cancel Save

Back

To edit the data tap on a cell and then tap on the “Edit Cell” button; to save changes tap on the “Save” button or to cancel changes tap on the “Cancel” button.

² Android devices have limited memory compared to standard laptops and desktops.

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Source code

The source code is available at <https://github.com/ilri/odkviewer>