Public Health Computing Group
Department of Epidemiology and Public Health

OpenHDS Mobile

aurelio.dipasquale@unibas.ch

Installing Mobile Apps
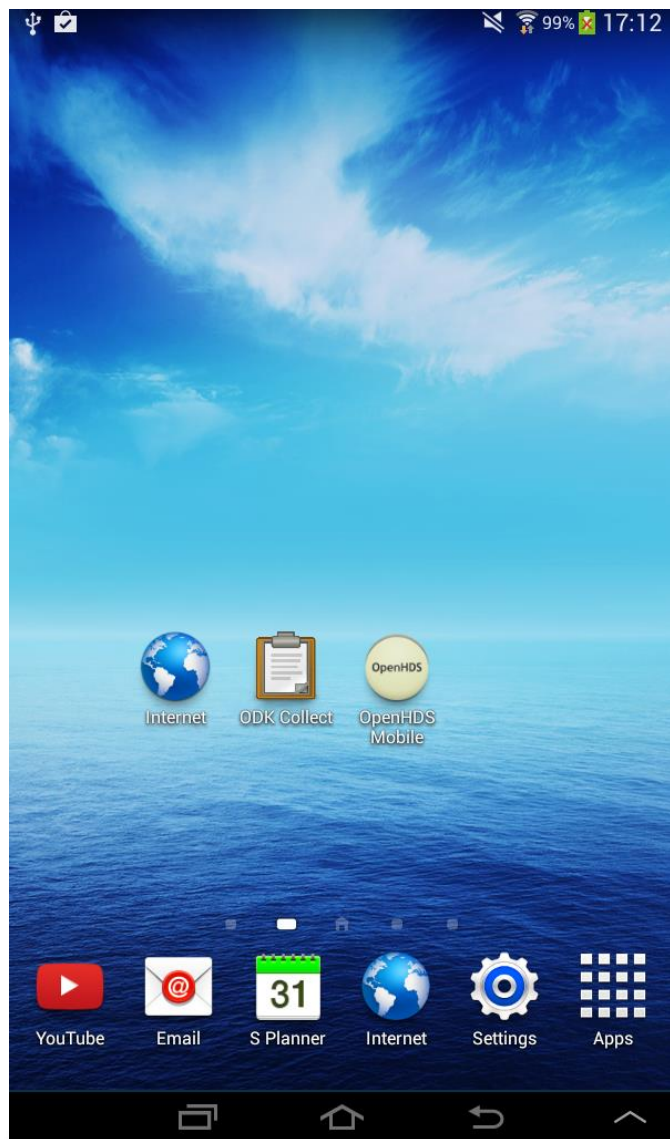
ODKCollect

Available on the Google Play or as direct download from:
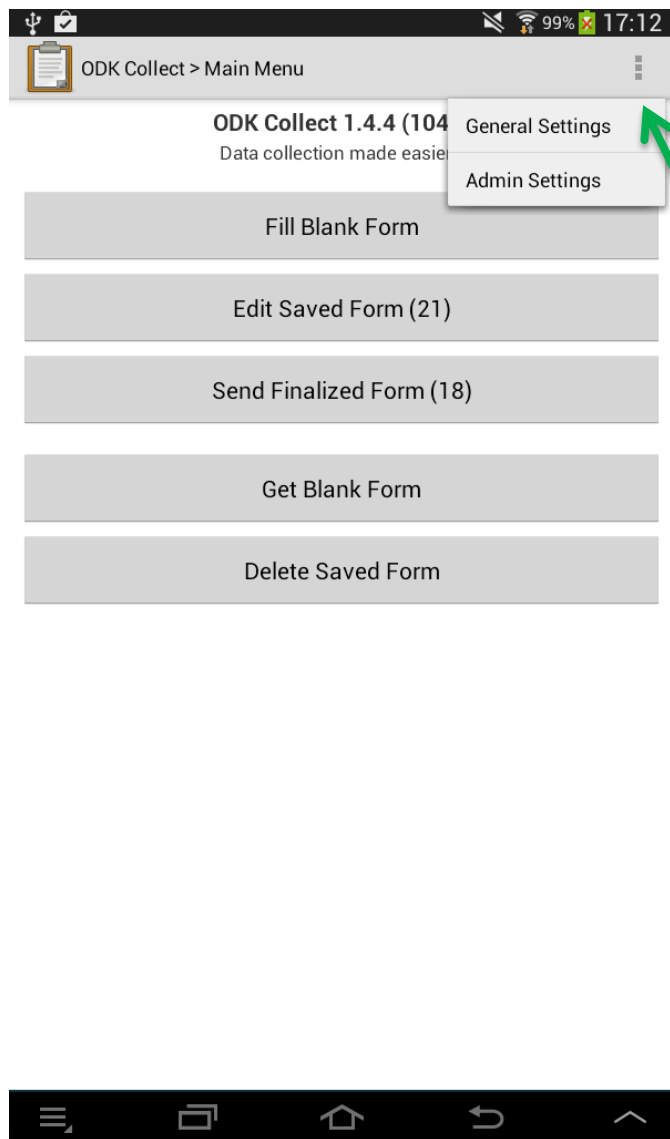https://opendatakit.org/downloads/download-info/odk-collect-apk/

Openhds mobile

Available on
https://github.com/SwissTPH/openhds-tablet/releases/download/1.5/openhdstablet_1_5.apk

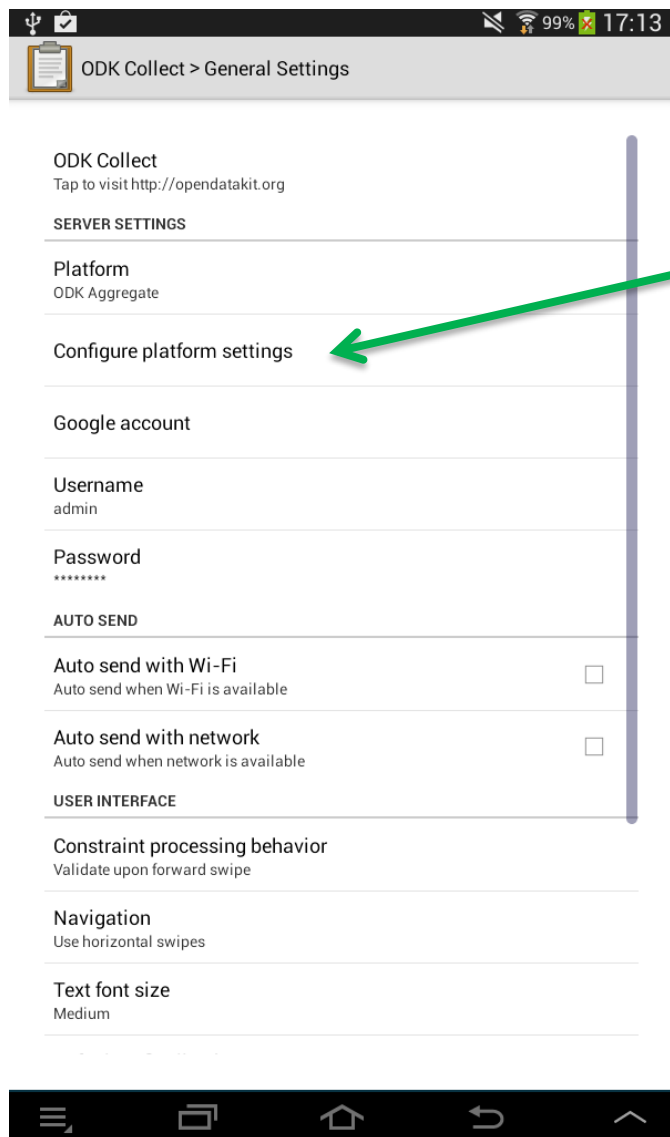Already installed on demo tablets

Setting-up ODK Collect

In ODK Collect Main Menu

Open the Menu at the upper right hand corner (or tap the hardware menu button on your device respectively) and select «*General Settings*»
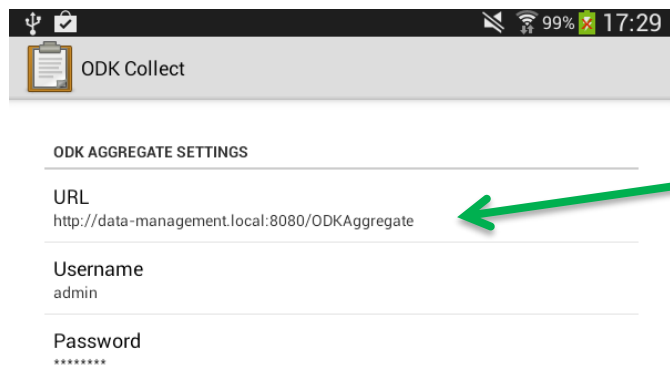
Setting-up ODK Collect (cont'd)

In ODK Collect General Settings

Select the option «*Configure platform settings*»

Setting-up ODK Collect (cont'd)
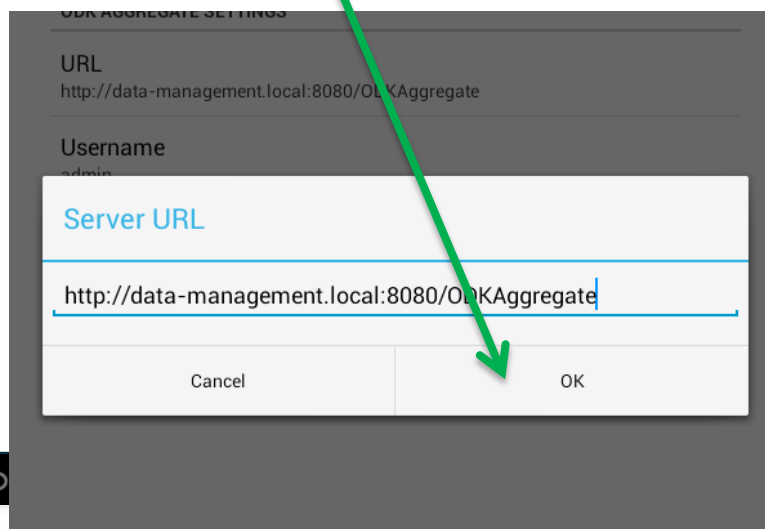

In ODK Aggregate Settings

Enter the URL to the ODKAggregate server and also provide a valid ODKAggreate Username/Password combination

Save each of the entries by confirming them by selecting «OK»
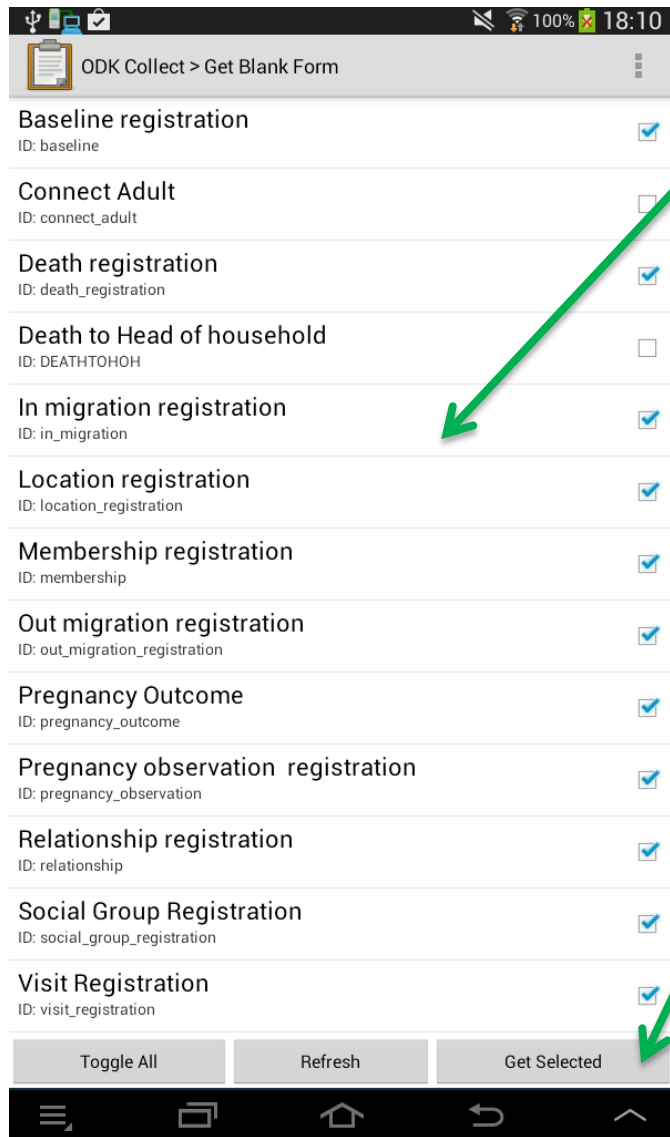
Synchronizing Forms in ODK Collect
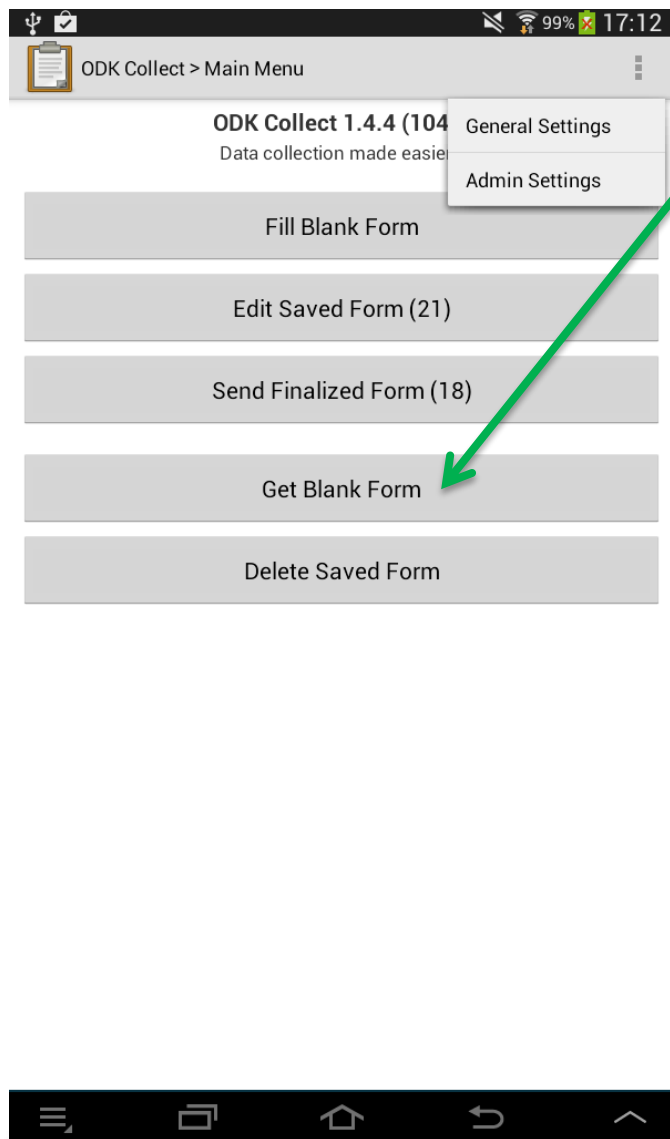
In ODK Collect main menu

Select «*Get Blank Form*»

ODK Collect will now query for all available Forms directly on the server and display them in an overview
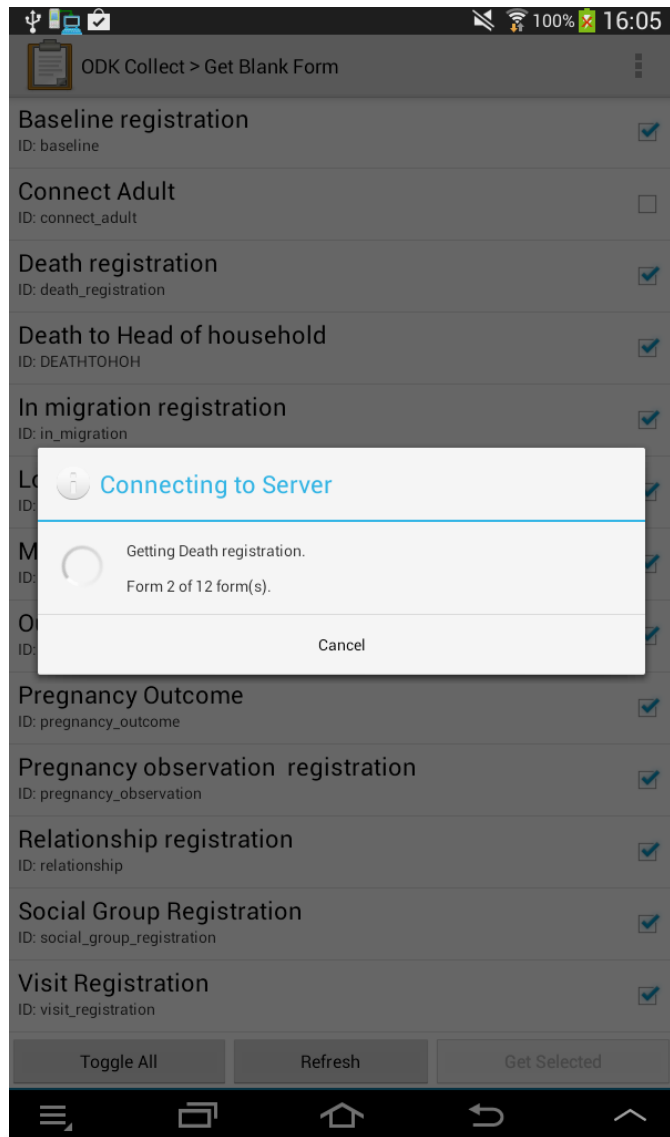
Synchronizing Forms in ODK Collect (cont'd)

In «*Get Blank Form*»

Select the Forms you want to synchronize with the tablet from the list

Click on «*Get Selected*» to start the import process

Synchronizing Forms in ODK Collect (cont'd)

In «*Get Blank Form*»

The selected forms are transferred and imported one by one into ODK Collect

The imported forms are displayed. Make sure there were no errors

Preparation for synchronization with OpenHDS Mobile

Create update round

Open the OpenHDS web application and log in

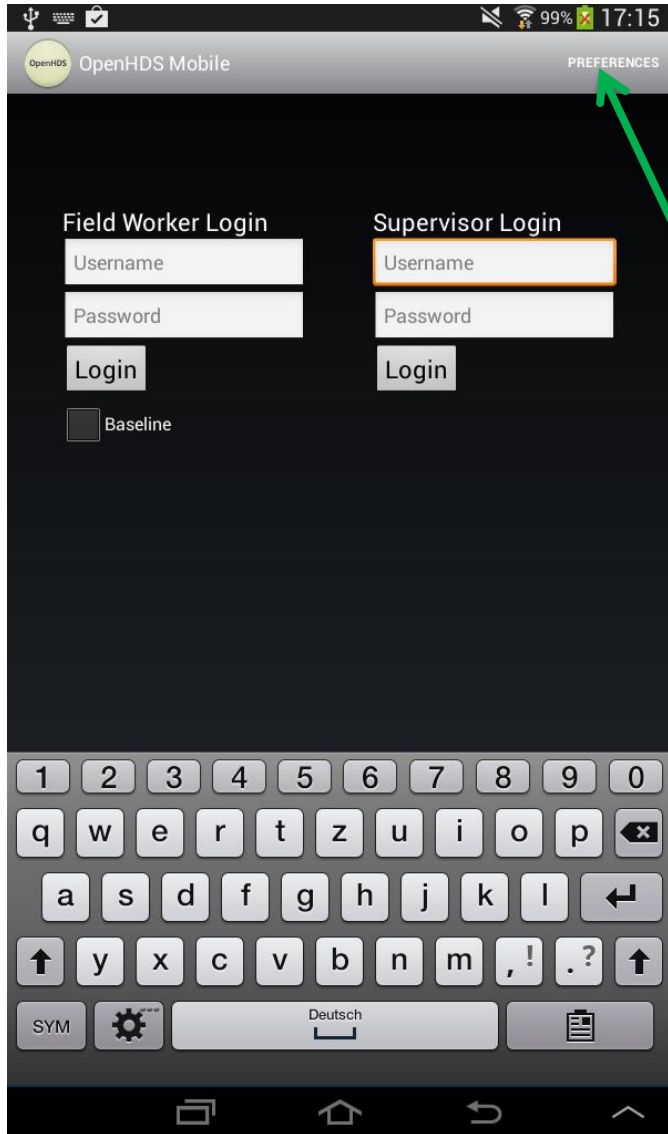Create a new Round under *Utility Routines* -> *Round Codes*

Navigate to the *Utility Routines* section and open the *Tasks* utility

Start a new *Visit Task* with *Round Number* XY (with start date today)

Subsequently start every other Task, going from *Individual Task* to *Social Group*, downwards

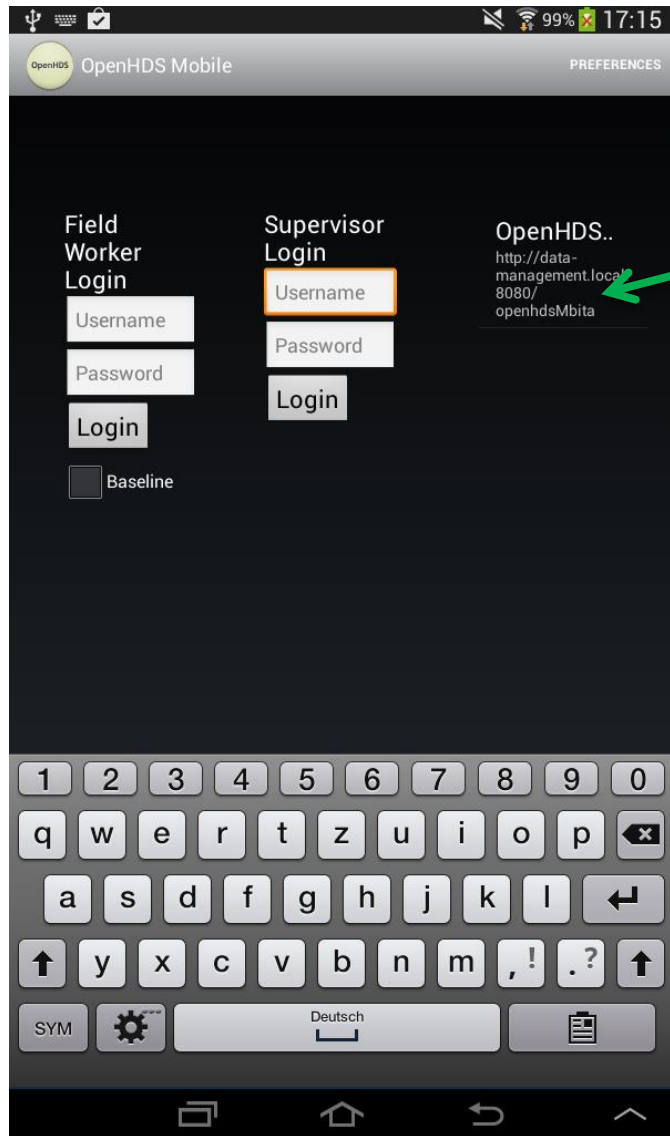Wait until each task completed, before continuing

Setting-up OpenHDS Mobile

In OpenHDS Mobile Main Menu

Tap the «*Preferences*» button at the upper right hand corner
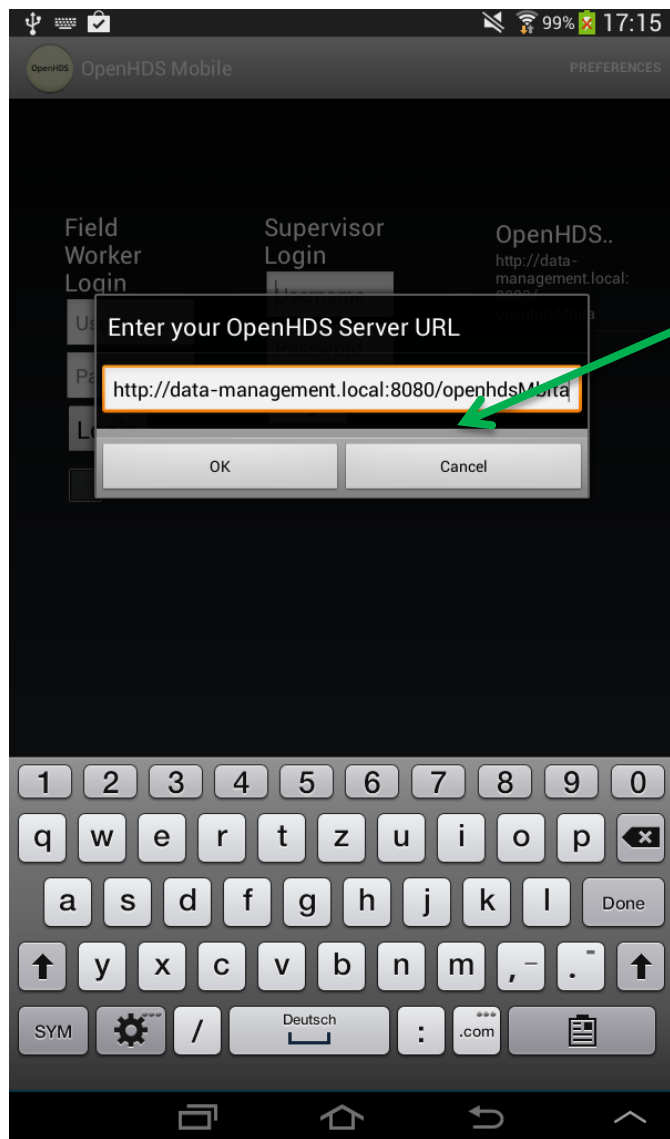
Setting-up OpenHDS Mobile (cont'd)

In OpenHDS Preferences

Click on the URL to start editing the entry

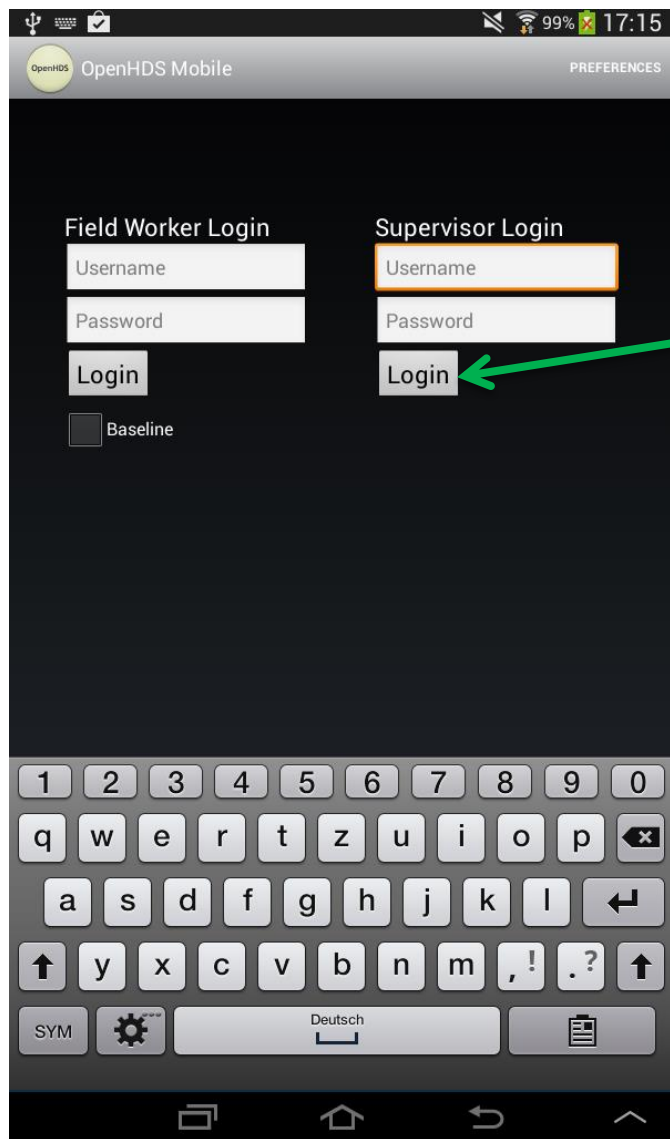# Setting-up OpenHDS Mobile (cont'd)

In OpenHDS Server URL dialog

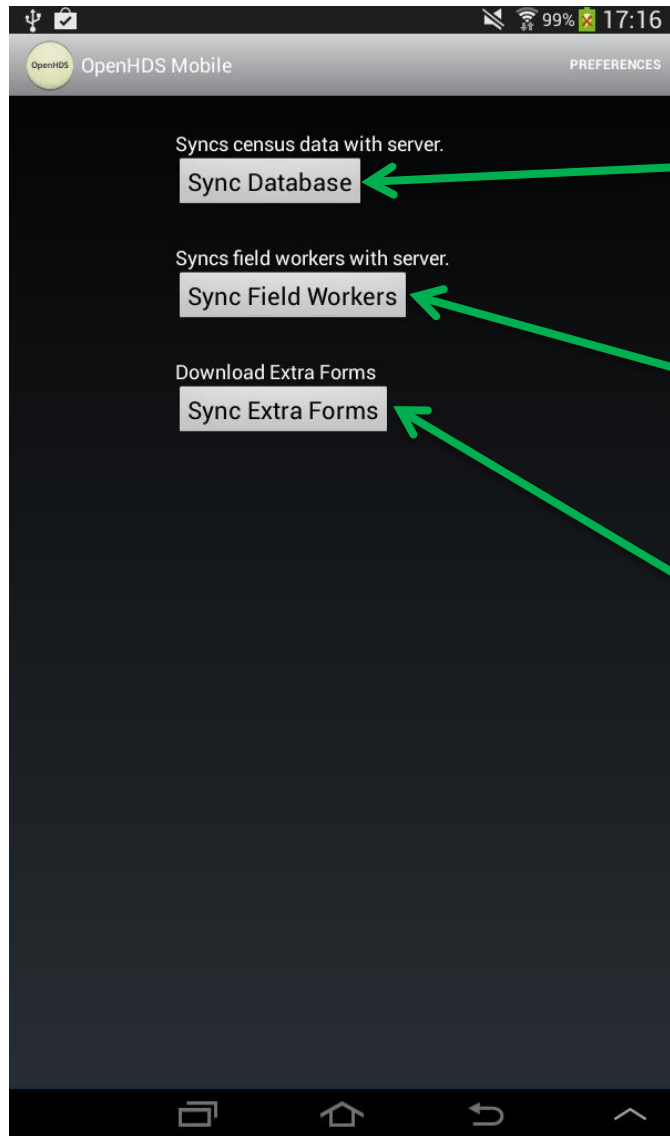Enter the URL to the OpenHDS server and confirm your input with a click on «*OK*»

Synchronizing OpenHDS Mobile

In OpenHDS Mobile main menu

In the «*Supervisor Login*» section, provide the user credentials and click on «*Login*»

Synchronizing OpenHDS Mobile (cont'd)

In OpenHDS Mobile Supervisor Menu

Select «*Sync Database*» to download the OpenHDS Entities onto the tablet

Select «*Sync Field Workers*» to download the OpenHDS Field Workers onto the tablet

Select «*Sync Extra Forms*» to download the Extra Form definitions onto the tablet

OpenHDS Mobile : Login

In OpenHDS Main Menu

To test a successful synchronization, try logging in as Field Worker in the Field Worker Login section

OpenHDS Mobile

In OpenHDS Mobile Round

If the login was successful, the main data entry screen is displayed
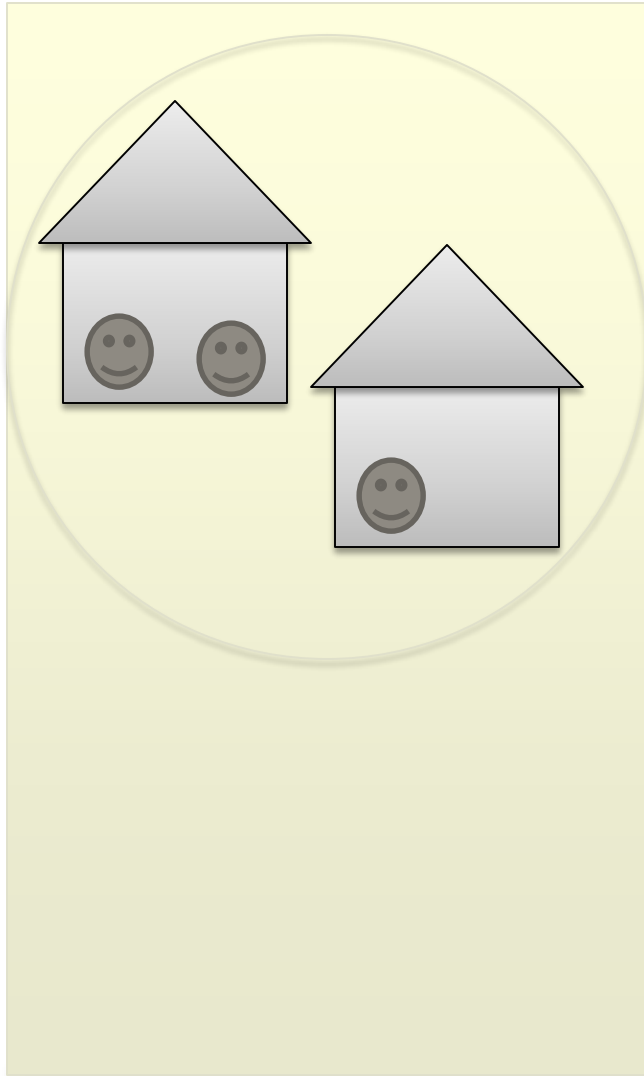
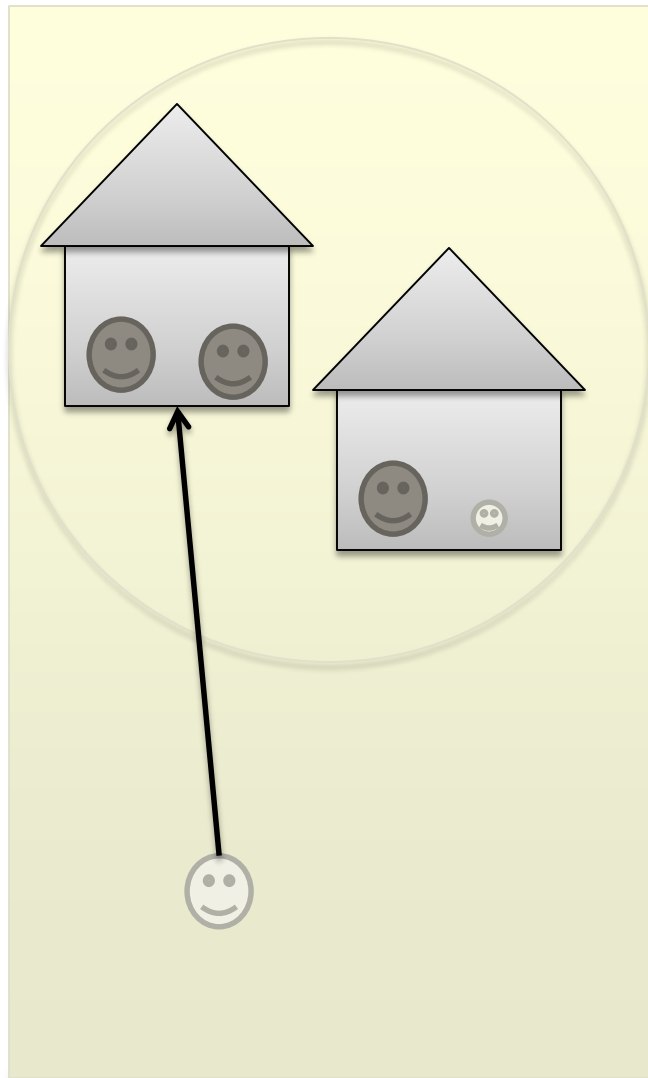# Field processes
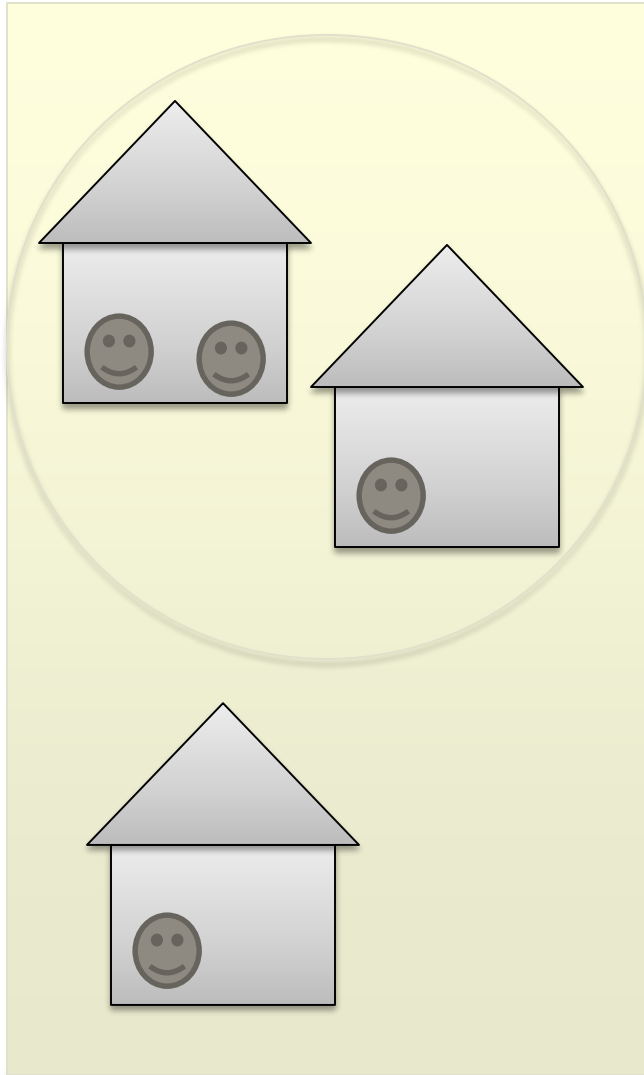
Rounds

Prerequisites

Follow-up visit

Rounds

Baseline Round
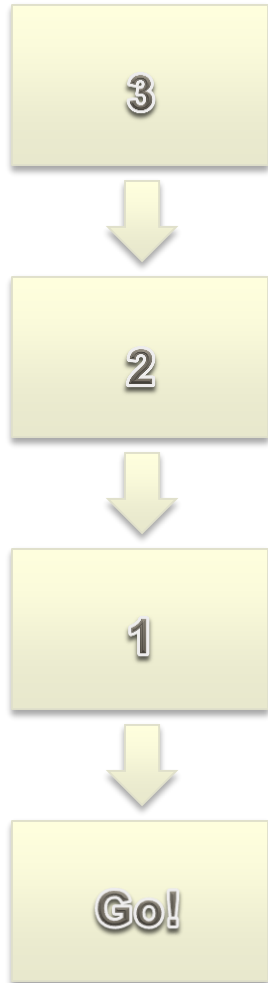
We will not discuss this, as it does not apply for you

Rounds

Update Round

Prerequisites

Prerequisites for mobile data collection

Field Worker records available

Location Hierarchy set up

Round set up and Tasks configured

XForms uploaded to ODKAggregate

OpenHDS Mobile set-up and synchronized

ODK Collect set-up and synchronized

Follow-up visit (Updates)

Login

Field Worker Login

Uncheck the 'Baseline' checkbox

Follow-up visit (2)

Select location hierarchy

Top-down location hierarchy selection

Follow-up visit (3)

Select location hierarchy

Top-down location hierarchy selection

Follow-up visit (4)

Select current round

Select the current round you're working on
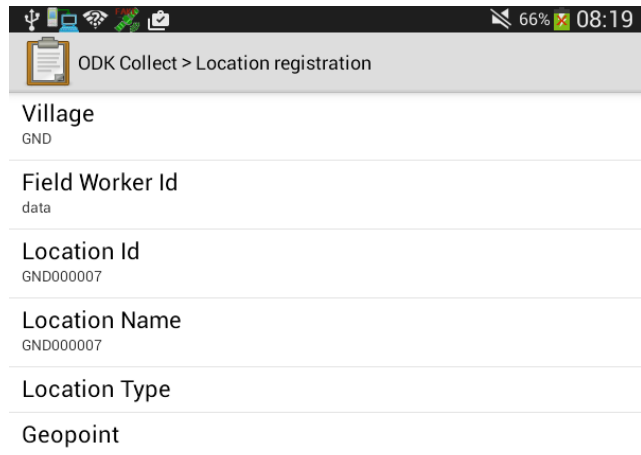
Follow-up visit (5)

Location

Select the location from the List or filter for a specific location

Follow-up visit (6)

Create New Location

Upon selecting " Creating Location" you will be able to fill in a new Location registration form

Follow-up visit (7)

Visits

Create a Visit

Filter individual

Follow-up visit (8)

Visit registration form

After selecting the individual, the Visit Registration form will open, prefilled with previously selected data

Follow-up visit (9)

Select Individual individual

Select an individual living at the current location or *In Migrate* an individual

Follow-up visit (10)

Events

Available events:

External / Internal Inmigration

Outmigration

Membership

Relationship

Pregnancy Observation

Pregnancy Outcome

Death

Filling in event forms

Filling in event forms

Selecting an event opens the corresponding XForm.

The form is pre-populated with the relevant Id information.

This prevents the most frequent source of error in the data collection process.

Finishing visit
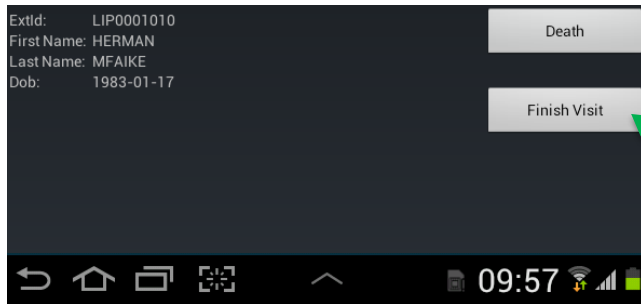
Finishing a Visit

Finish Visit

Confirmation Dialog
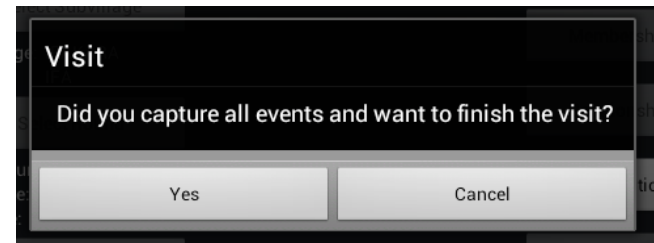
Id Generation

The individual extId is generated based on the location extId. E.g. if the location extId is GND000001 then the individual extId becomes GND000001001, GND000001002, etc.

The SocialGroup extId is generated from the Hierarchy extId, parts of the location extId and an appended 00.

The visit extId is generated from the location extId and the round number

The location extId is generated from the Hierarchy extId with an appended 000001, 000002, 000003, etc.

Issues: Migration, Multiple tablets per village

Exercises

Topics covered

1

OpenHDS Mobile (40')

2

OpenHDS Mobile

Tasks

1

1. Set-up *OpenHDS Mobile (URL with Port!)*

2. In your Dashboard: Generate test data; run *Fieldwork Simulator* with the scenario "01: *Baseline with fixed events"* (make sure the appropriate Mirth-Channels are started)

3. In OpenHDS: Create a new Round with id 1: *Utility Routines->Round Codes*

4. Navigate to the *Utility Routines* section and open the *Tasks* utility

5. Under Tasks: Start a new *Visit Task* with *Round Number* 1

6. Subsequently start every other Task, going from *Individual Task* to *Social Group*, downwards

7. Set the form w. id *extra_form* as *ODK Extra Form* under Utility Routines (active/for all)

OpenHDS Mobile (2)

Tasks

1

7. In OpenHDS Mobile: Login as Supervisor admin/test and synchronize the Database, Field Workers and Extra Forms (please make sure you close ODKCollect before)

8. Login as *Field Worker data/data (uncheck Baseline)*

9. Navigate through Location Hierarchy (NW -> Basel ->Basel-Stadt ->Gundeldingen)

10. Select the round 1

11. Select the *Location with id GND000001*

12. Create a *Visit*

13. *Search and select the individual with Id GND000001001*

14. *Fill out the visit form*

OpenHDS Mobile (3)

Tasks

15. *Inmigrate (external) a new Individual (create a woman over age 18)*

16. *Create a membership for the new individual*

17. Create a Pregnancy Observation *Event*

18. Open the Extra Form you defined earlier and fill it out

19. Finish the *Visit*

20. Open *ODKCollect* and open the *Finalized Forms* view.

21. Verify that the forms you filled out in the last few steps are there under *Finalized Forms*
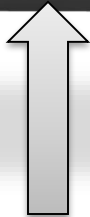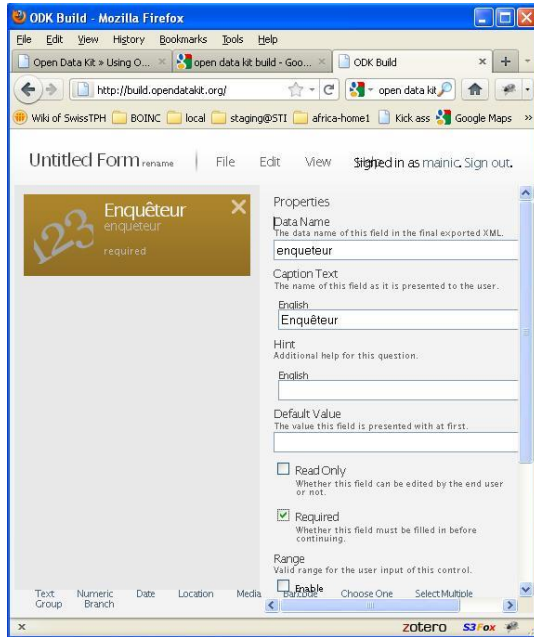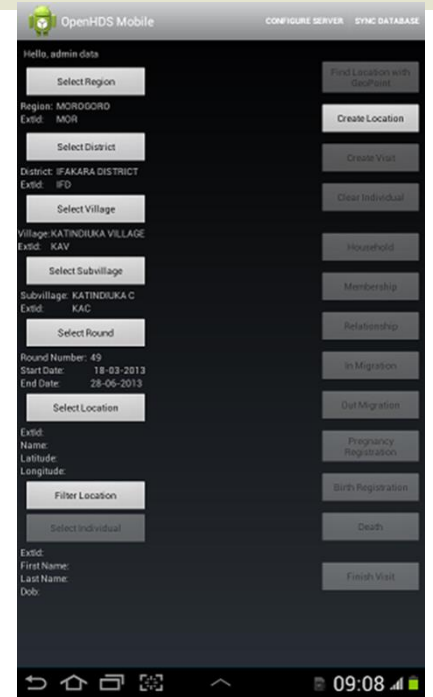
Time: 40 minutes

1

Sending data to the server

ODK Collect

ODK Aggregate

OpenHDS/ODK integration

ODK Build/ XLSForm

OpenHDS Mobile

Download Form

ODK Aggregate Server

Publish form

Upload Data

Download Information
Update Location Information
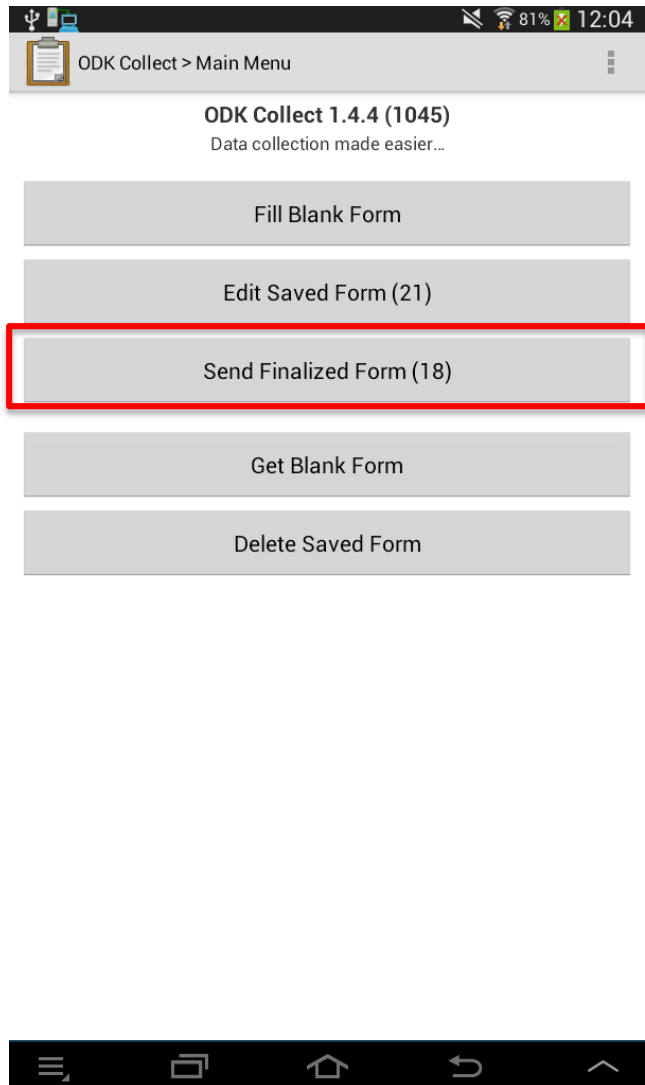
Sync Data

OpenHDS

Submit data

ODKCollect

Open the *ODKCollect* application

Submit data (2)

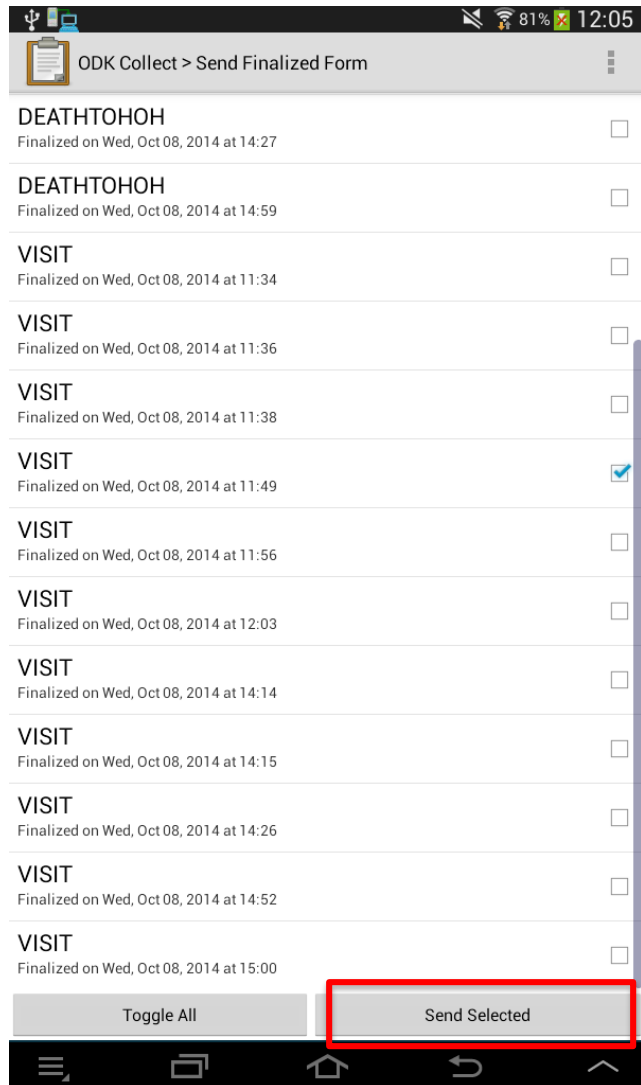**Send Finalized Form**

Enter the 'Send Finalized Form' section

Submit data (3)

Select relevant forms

Select all the forms to submit from the list view or select them all by clicking on "Toggle All"
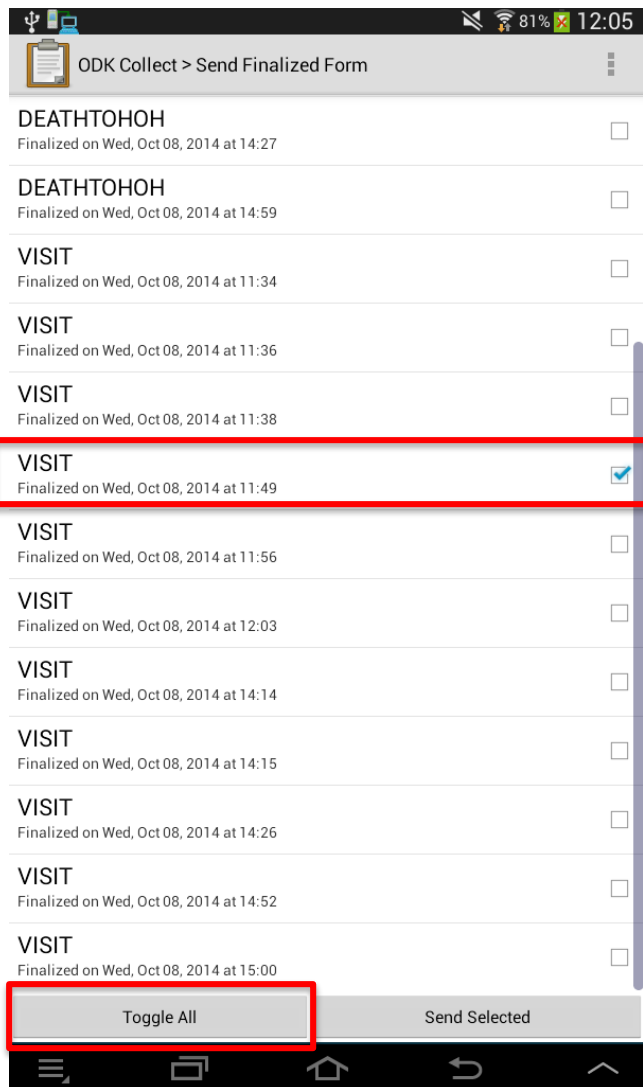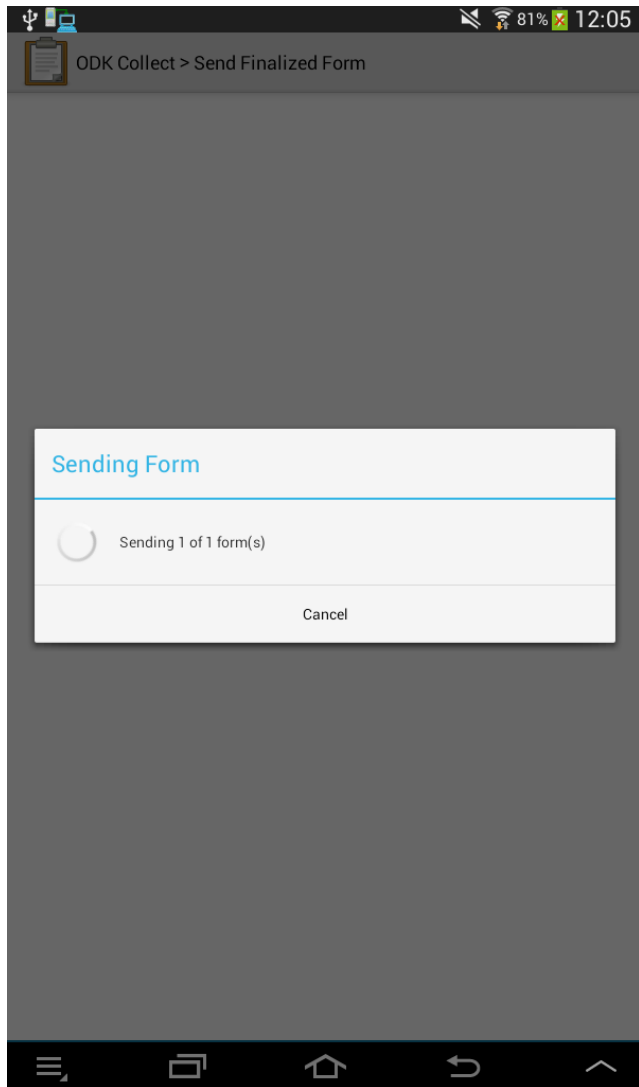
Submit data (4)

Submit data

Click on 'Send selected' to synchronize the finalized forms

Submit data (5)

Submit data

The finalized forms are sent to the
ODKAggregate server

ODKAggregate

Submissions View

Open the ODKAggregate Webapplication and go to the *Submissions* tab

ODKAggregate (2)

Submissions View

Switch to different Forms from the drop-down to view the submitted data