

Mobile Data Collection

For Enumerators

With Open Data Kit (ODK)
Android OS - Xperia Pro



Outline

- 👤 Android phones for mobile data collection
- 👤 Features of the phone, your responsibilities
- 👤 Letting the household know you are using new technology
- 👤 Introducing the XPeria Pro
- 👤 Power management and phone settings
- 👤 The application: ODK
- 👤 Some tips
- 👤 Final exercise



ANDROID PHONES



Android phones for mobile data collection


- Android phones have been used in nutrition surveys in more than 10 countries
- Pros
 - More accurate results
 - Faster
 - Easier to review, analyze, improved feedback from supervisors
- Cons
 - Expensive and fragile technology



Features of the phone, your responsibilities

- 👤 These phones are the property of UNHCR. When they are in the hands of the enumerator, they are under his personal responsibility
 - **Never** leave the phone unwatched
 - **Never** leave the phone on a desk or bed, keep it in your pocket or handbag
 - Be careful!
- 👤 Enumerators will have to sign a waiver to acknowledge their responsibility over the phone

PHONE OWNERSHIP AND RESPONSIBILITIES


UNHCR
The UN
Refugee Agency

ANDROID PHONE HANDOVER

General Statement

- The android phone issued is property of UNHCR and should be handled with utmost care against loss or damages of any kind.
- You are liable to ensure that the phone is returned in a good working condition
- This letter serves as a confirmation that you accept responsibility for the phone provided by UNHCR with the description attached:

PHONE IMEI:

I have received the above items in good working condition. I have also read and agree to the statement explained above and assume full responsibility

Name of receiver.....
Signature.....
Date.....

Name of issuer.....
Signature.....
Date.....

Date of final Return:
Signature of Responsible person:

This waiver must be signed once before the beginning of the survey, by each of the enumerators who will be in charge of the phones.



Phone ownership and responsibilities

Sondage de Sécurité alimentaire du Burkina Faso Inventaire des téléphones par équipe et par jour

DATE:

PreTest	Xperia Barcode/IMEI	G1 Barcode/IMEI	Team leader	Signature	Team colour
Team 1	351676030088209	12468001490007			red
Team 2	351677030034813	12468001495048			yellow
Team 3	351677030073092	12468001496087			pink
Team 4	351677030072961	12468001493050			orange
Team 5	351676030030847	12468001494843			blue
Team 6	351676030122990	12468001495998			green

Example of sheet that needs to be signed every morning by the team leaders and every night by the survey supervisor. Hence the team is responsible for the phones during the data collection period, but not overnight when the phones are with the survey manager.

LET THE HOUSEHOLD KNOW YOU WILL BE USING A PHONE...

- ⓘ Something to consider is that this new technology may be intimidating.
- ⓘ It is a good idea to let the person you are interviewing know what you are doing with this piece of equipment.



Introducing the Xperia Pro (1)

ON/OFF
(you can also use this button to put the phone in Flight mode)



MENU
(Button for options)

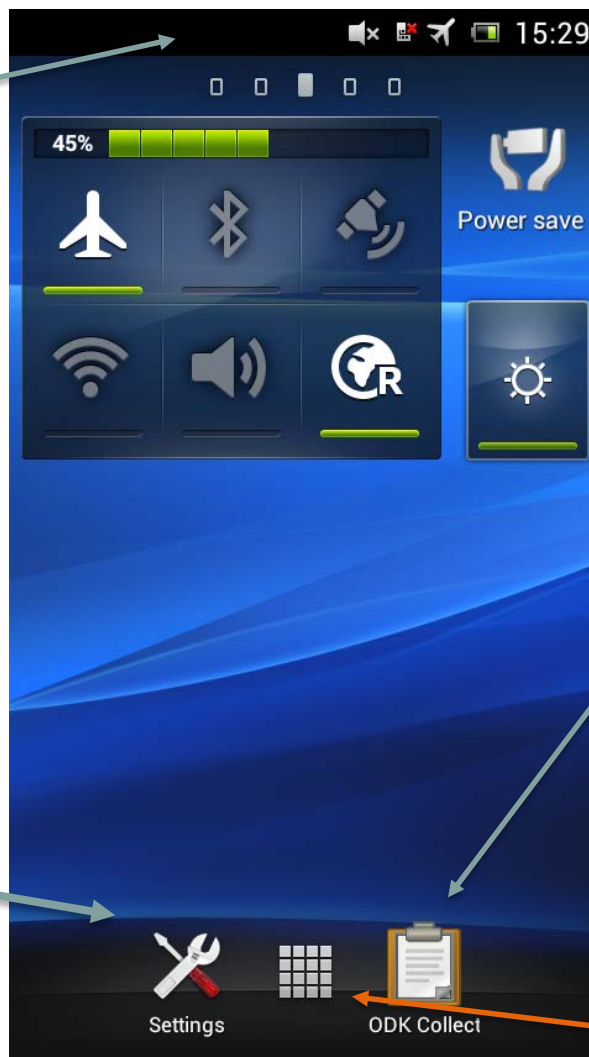
Home
(Unlock + go to homescreen)

Back

Introducing the Xperia Pro (2)

1 STATUS BAR: WIFI/Network/Flight mode/USB Connect

Here you can check the status of your phone. For data collection you want to have it in Flight mode (little plane), for Synchronization in WIFI (waves) and for connecting to the computer via a cable in USB storage or USB Debug mode. You can also check the power left in your battery here.



3 ODK Collect

This is the software enumerators use to collect the information .

2 Settings

Change the settings of the phone (Wifi, USB debug mode) here.

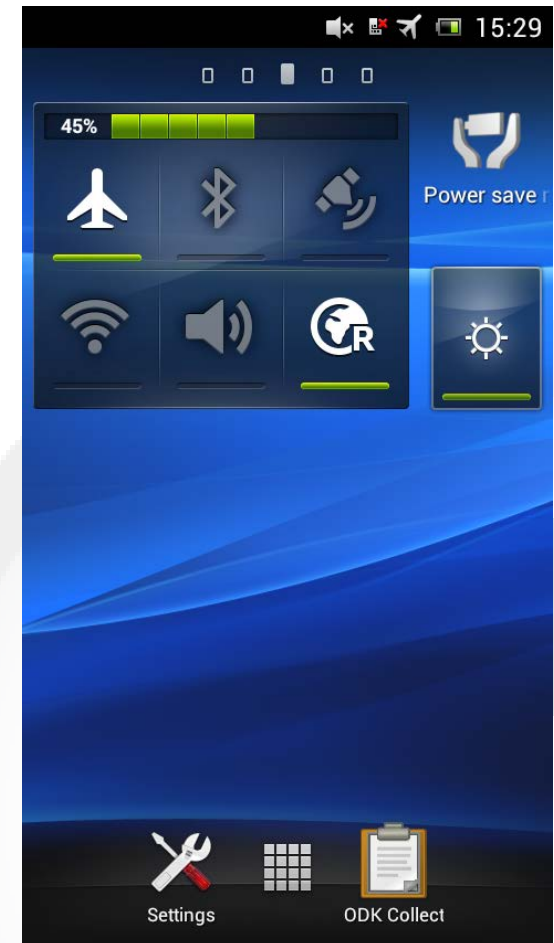
4 Applications

This button gets you into the application menu to access other apps.

Power management and phone settings

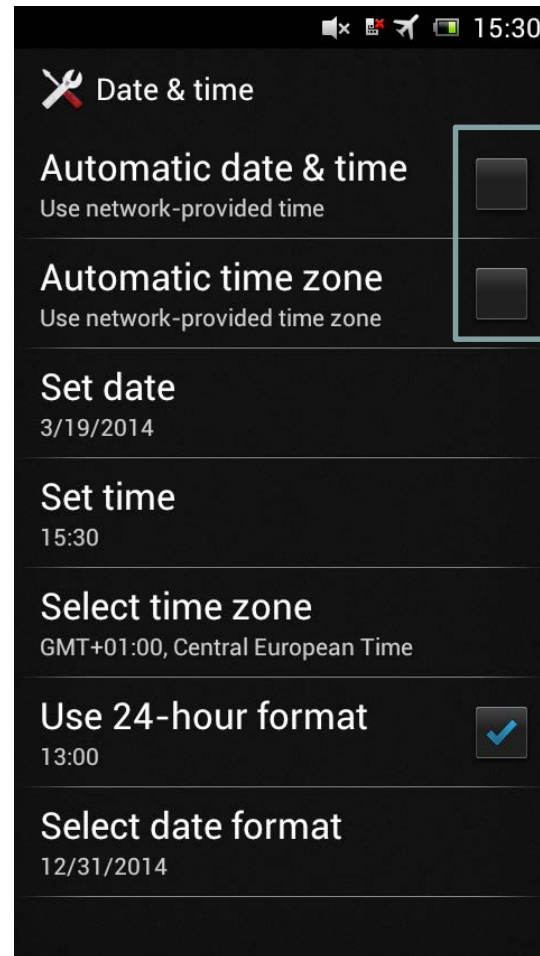
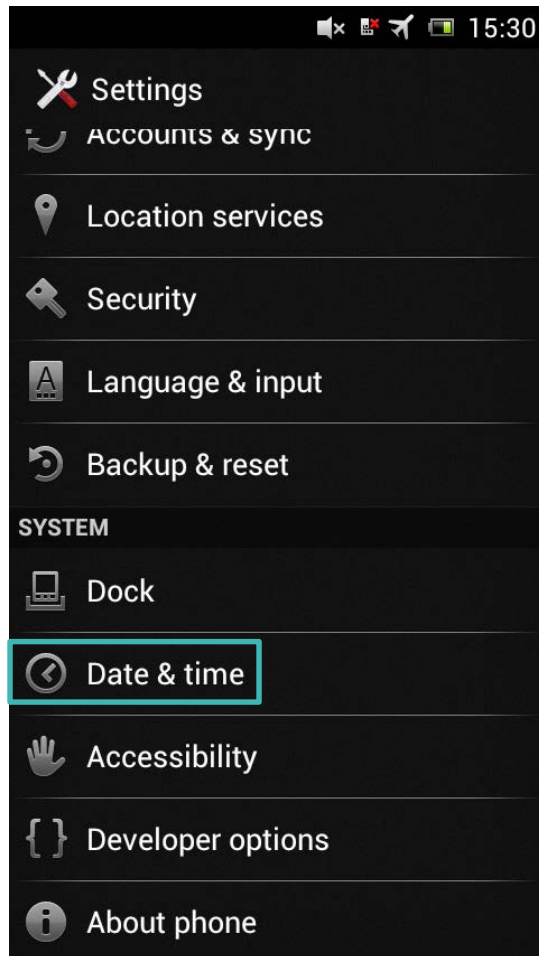
To save power...

- Flight mode
- WIFI **off**
- The screen's luminosity must be low
- Recharge the battery if necessary



Power management and phone settings

Make sure the date is correctly set



If not, unselect “Automatic” and enter the current date/hour

 Set up the time zone first, and then the date/hour.

Exercise

Exercise 1: Adjust your phone's settings

Set the date to June 20th, 2008, in the UTC time zone, at 8.45AM.

Make sure your phone is in Flight mode, that the WiFi is off and the luminosity of the phone is set to low.

Group discussion:

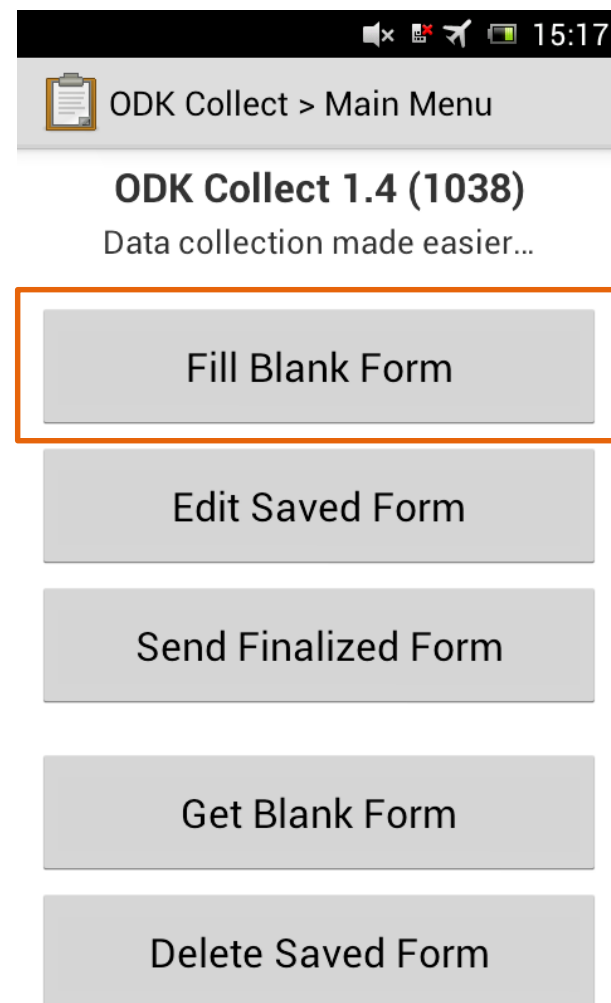
- What are the consequences of the phone's date on the survey?
- What happens if you accidentally delete the ODK application from the home screen?

THE ODK APPLICATION




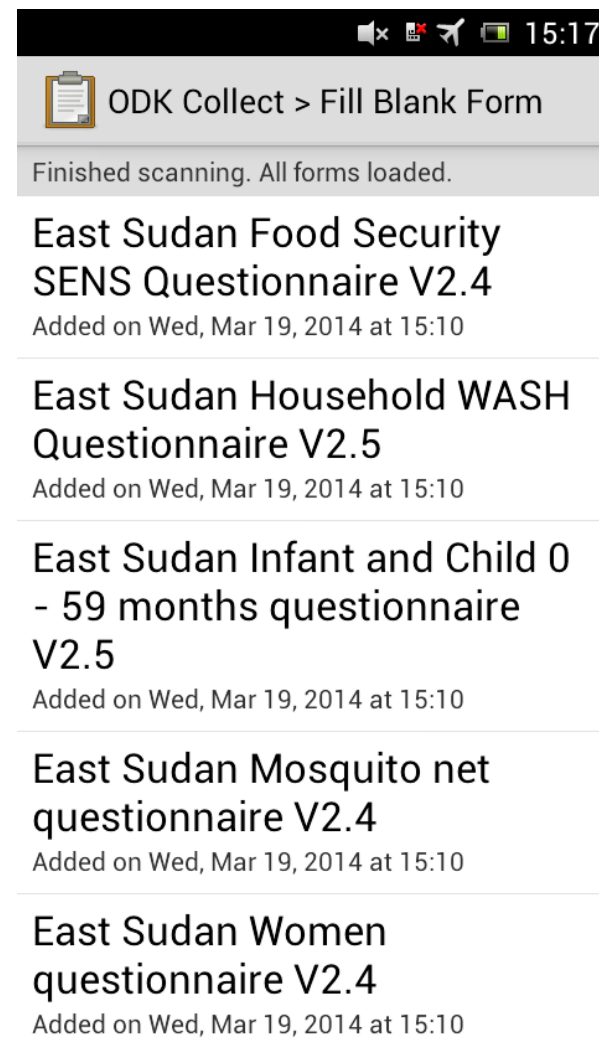
ODK Main menu

- 👤 This is the application where enumerators enter data.
- 👤 Enumerators will mainly use the 'Fill Blank Form' button.



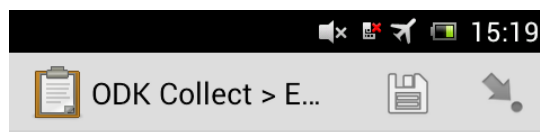
ODK Choosing the form

-  After selecting 'Fill blank form', enumerators select any of the forms.
- Food Security
 - WASH
 - Mosquito Net
 - Children (0-59 months)
 - Women

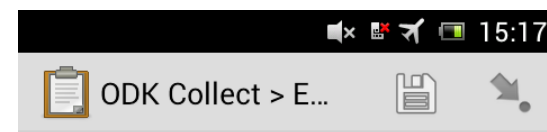
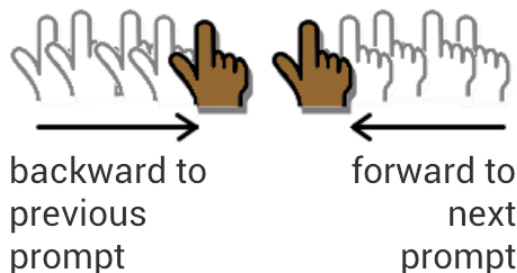


ODK Browsing through the form

- To go to the next question of the form you can either “swipe” the screen with the finger, or use the button at the bottom of the screen.



You are at the start of East Sudan Food Security SENS Questionnaire V2.4. Swipe the screen as shown below or tap the arrow buttons to go backward and forward.



THIS QUESTIONNAIRE IS TO BE ADMINISTERED TO THE MAIN CARETAKER WHO IS RESPONSIBLE FOR COOKING THE MEALS.

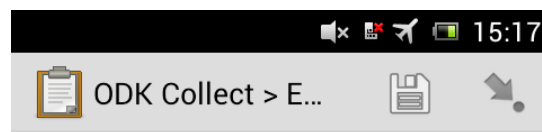
Tick the camp in which you conduct this survey

- Wad Shariffe
- Kilo 26
- Shagarab I
- Shagarab II
- Shagarab III
- Girba
- Um Gargour

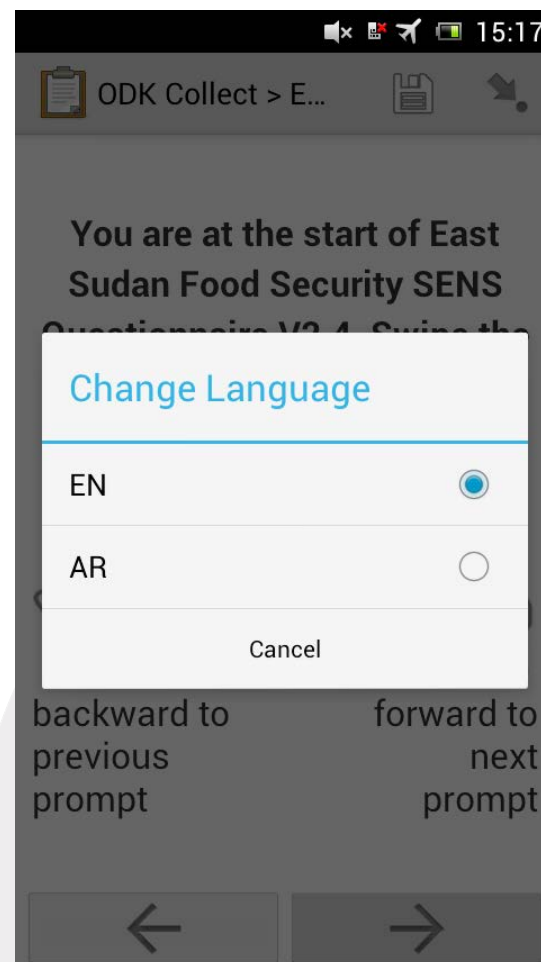
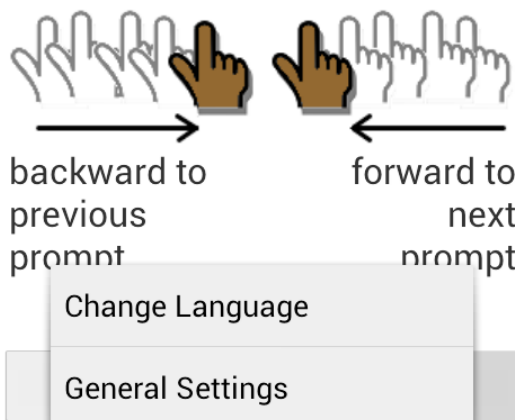


ODK Changing the language

- 👤 To change the language of a questionnaire: once the form is opened, click on the Menu button (bottom right button of the phone) and choose "change language"



You are at the start of East Sudan Food Security SENS Questionnaire V2.4. Swipe the screen as shown below or tap the arrow buttons to go backward and forward.



ODK Select an option

- 👤 This is an example of selecting one of the items on the form.
- 👤 When there is a circle (radio button), only one can be checked.

ODK Collect > E...

THIS QUESTIONNAIRE IS TO BE ADMINISTERED TO THE MAIN CARETAKER WHO IS RESPONSIBLE FOR COOKING THE MEALS.

Tick the camp in which you conduct this survey

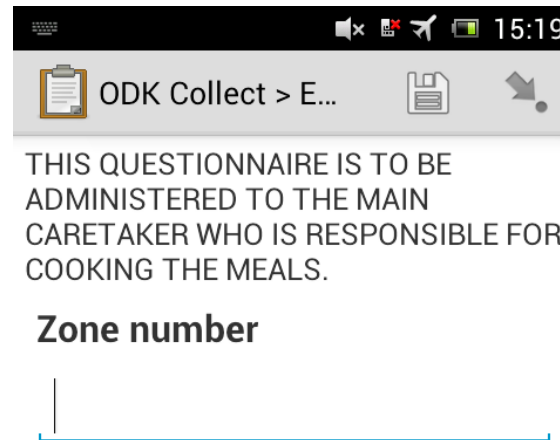
- Wad Shariffe
- Kilo 26
- Shagarab I
- Shagarab II
- Shagarab III
- Girba
- Um Gargour

← →

ODK Enter numbers/text

Example:

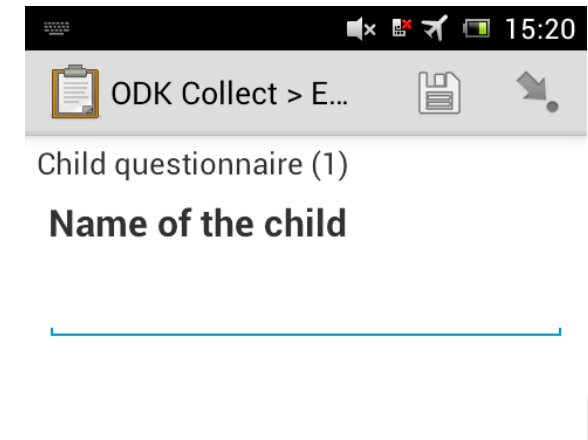
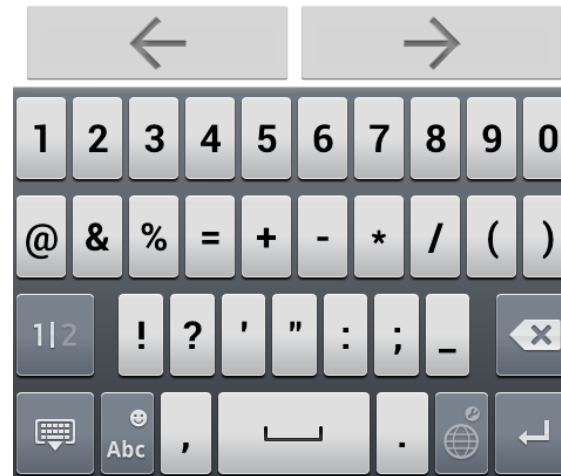
- 👤 This is an example of where an enumerator would fill out a form with text.
- 👤 The enumerator can use the key pad on the screen, or the phone key pad.
- 👤 For some fields, **only** letters can be used, and for other fields, **only** numbers can be used. Ranges can be set by managers.



ODK Collect > E...

THIS QUESTIONNAIRE IS TO BE ADMINISTERED TO THE MAIN CARETAKER WHO IS RESPONSIBLE FOR COOKING THE MEALS.

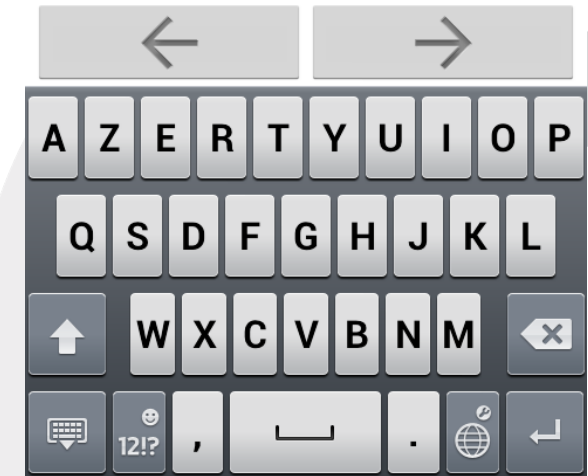
Zone number



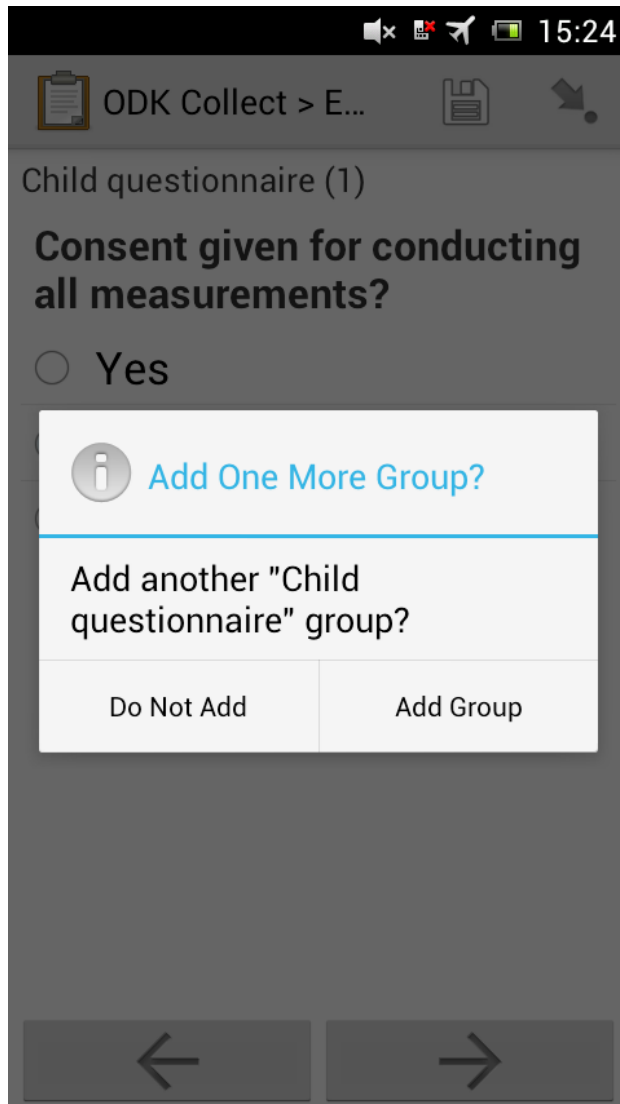
ODK Collect > E...

Child questionnaire (1)

Name of the child



ODK Add a group



ODK Collect > E...

Child questionnaire (1)

Consent given for conducting all measurements?


Yes

Add One More Group?

Add another "Child questionnaire" group?

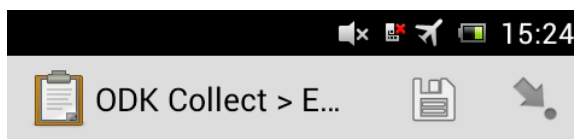
Do Not Add Add Group

Example:

-  Add another group; if there are more than one woman or child in one household you can add them all one by one.

ODK End of the form

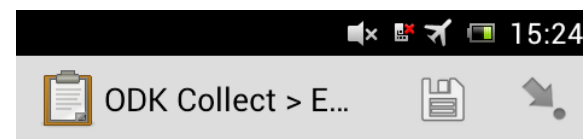
- When enumerators are at the end of the questionnaire and have finished all questionnaires in this household:
 - Tick 'Yes' to the question "Interviewer: I confirm that questionnaire is complete"
 - Tick 'No' to the question "Supervisor: I confirm that questionnaire is complete" (it will be filled by the supervisor later)



ODK Collect > E...

Interviewer: I confirm that questionnaire is complete

- Yes
- No



ODK Collect > E...

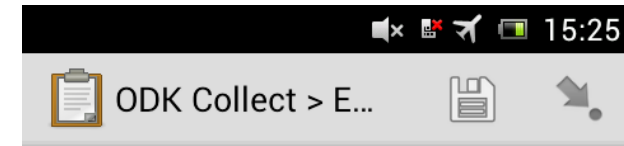
Supervisor: I confirm that questionnaire is complete

- Yes
- No



ODK Save Questionnaire

- ❗ Do **NOT** tick “Mark form as finalized”
- ❗ Rename the form
 - Depending on the structure of the camp, the naming conventions should be decided during the training (usual pattern: FS-HH45B3S5 for House (HH) 45, Block 3, Section 5)
- ❗ Click on « Save Form and exit »
- ❗ Forms will be reviewed by supervisors every night



You are at the end of East Sudan Infant and Child 0 - 59 months questionnaire V2.5.

Name this form

East Sudan Infant and Child (

Mark form as finalized

Save Form and Exit

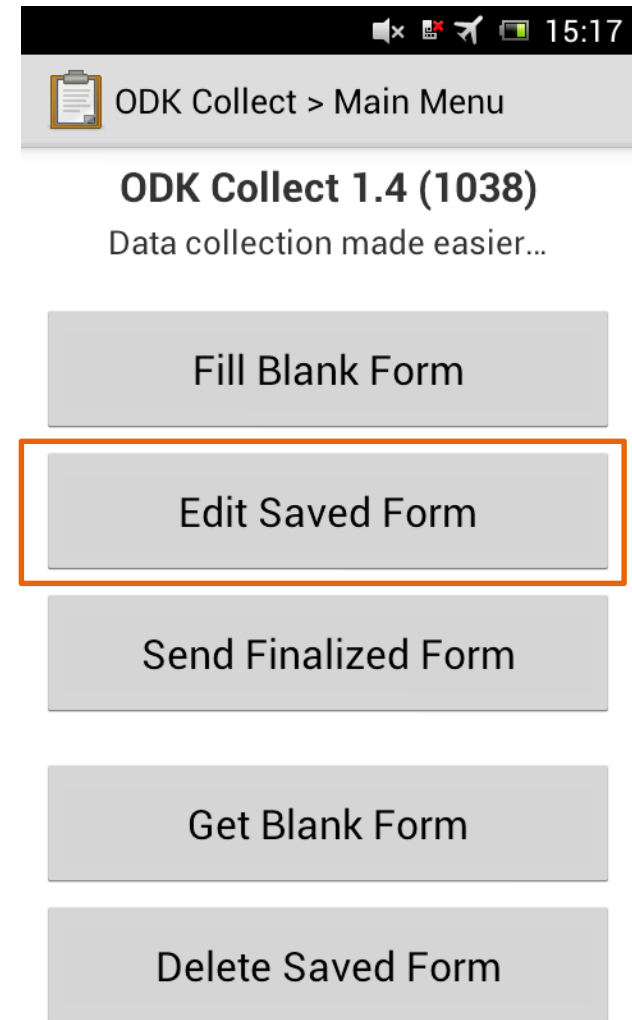


Forms name

Name of empty form	Name to use
Food Security	FSHHxxBxx
WASH	WSHHxxBxx
Mosquito Net	MNHHxxBxx
Children (0-59 mois)	CHHHxxBxx
Women	WOHHxxBxx

ODK Review data

- 👤 Enumerators or supervisors can review saved data, by pressing the “Edit Saved Form” button in the main menu
- 👤 The questionnaires will appear in the same sequence as they were saved.



Some tips

- 👤 If you accidentally closed ODK: restart the application, most of the time it will open again where you left it.
- 👤 If the application crashes: turn the phone off and back on again. Restart the application and check if the data from the form you were editing have been saved. You should find it back in the “Edit Saved Form” menu
- 👤 If the screen goes black: the phone just went to sleep mode, press the On/Off button!

Exercises

Exercise 2: Get familiar with the phone

Fill an “Infant and Child” form and a “Food Security” Form. Fill it with random data, but try to make it as realistic as possible. Once these forms are complete, save them.

Group discussion

Were there questions you haven't understood?

Which form was the easier to fill, and why?

FOLLOW-UP DOCUMENTS



List of visited households

- ☾ Gives an overview of visited households
- ☾ One for each block

Utilisez une feuille par bloc. Les cellules en gris signifient que les mesures ne devraient pas être faites dans ce ménage. Cette feuille est pour aider les énumérateurs dans leur travail quotidien et les superviseur à avoir une vue d'ensemble du travail des énumérateurs.

Date de l'enquête: / / 2014			Bloc No.:			No d'équipe:			IYCF		WASH	Food Security	Mosquito Net	
No MN	Anthropometry and health Enfants 6-59 mo.		Anaemia Enfants 6-59 mo.			Anaemia Femmes 15-49 y			Enfants 0-23 mo.		1=Complété 2=absent 3=Refus	1=Complété 2=absent 3=Refus	1=Complété 2=absent 3=Refus	
	No. dans MN	No. surveyed	No. Référés	No. dans MN	No. surveyed	No. référés	No. dans MN	No. surveyed	No. referred	No. in HH				No. surveyed





Household composition sheet

- ☉ Gives an overview of the household structure
- ☉ One for each household

UNHCR SENS, Household Listing Form

UNHCR SENS, Household Listing Form									
Date __/__/2014		Camp _		Bloc _ _		MN Numéro _ _ _		Numéro d'équipe _	
Identification et âge				Anthropométrie				Anémie	
#	Nom	M/F	Age • Si âge ≥5 ans: en années • Si âge <5 ans: en mois	Poids Kg Enfants 6-59	Taille cm Enfants 6-59	MUAC cm / mm Enfants 6-59	Référé? Oui/Non Enfants 6-59	Hb g/dL • Enfant 6-59 • Femmes non-enceinte	Référé? Oui/Non
1									
2									
3									
4									
5									
6									
7									
8									

Standard Operating Procedure

- ☾  Record carefully the list of families you need to interview during the day (list of households)
- ☾  Make sure to have a clear overview of the household you're interviewing (use the *Household composition sheet*)
- ☾  Plan your routine
 - We advise you to fill first the individual forms, then the household forms
- ☾  Record it on the *List of visited households* if you have to get back to one

FINAL EXERCISE



Final exercise

Exercise 3: Scenario

WASH form: you are interviewing household 24 in block 4. The household has four members: one woman (pregnant), one child (24 months), one teenage daughter (15 years old) and an adult man. They own two 10 liters containers which they fill twice a day. Additionally, they have two containers of 3 liters which they also fill twice a day. They use water from a standpipe, which fortunately for them is just in the courtyard. They use a pit latrine which is shared with the neighbouring household.

After you completed and saved the form, record the number of liters per person per day used by this family.

You also need to fill the Reproductive Women questionnaire for this household.

The daughter is ok with having the Hemoglobin taken and she is measured at 12.3 g/dL, and the women is not receiving the iron pills yet.

Also fill the *Household composition sheet* and the *List of visited households*.

Don't forget to name the form following the pattern learnt during the training.