

Mobile Forms for Data Collection

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SC4CCM Project



What logistics data can the tool provide to program implementers and decision makers?

- Physical counts
- Stockout rates
- Stock Status
- Order Fill Rates
- Lead times
- Reporting, training, coverage
- Any system level
- *M&E data*

Who is trained to use the technology?

- Intuitive design interface
- Data collectors need basic training – SC4CCM held 7-8 day training on Magpi and SC, including 2-day pre-test
- Simple to enter, edit, save and send data using forms

What kinds of hardware are needed/can be used?

- *Design*: Computer with internet (high speed preferred), and mobile device to verify functions work correctly
- *Data collection*: any of 47 models of mobile device (brands include Nokia, Samsung, SonyEricsson, Apple, Android)
- Nokia e71, used by SC4CCM, costs around \$120

What software is used and approximately what does it cost?

- The application is called Magpi, available for **free** download
- Additional costs for greater storage space, special features
- Data can be loaded and sent to the online database by cellular, wifi, or cable connection to the mobile device

Data Security

Phone

- Password protected on all devices
- Encryption
- All Blackberry, iPhone/iPad
- Some Android (not all devices)

Transmission/Uploading

- Encrypted to 256 bit strong standard

Online

- Password protected, encrypted, backed up 4x daily (including to remote site), monitored 24/7/365

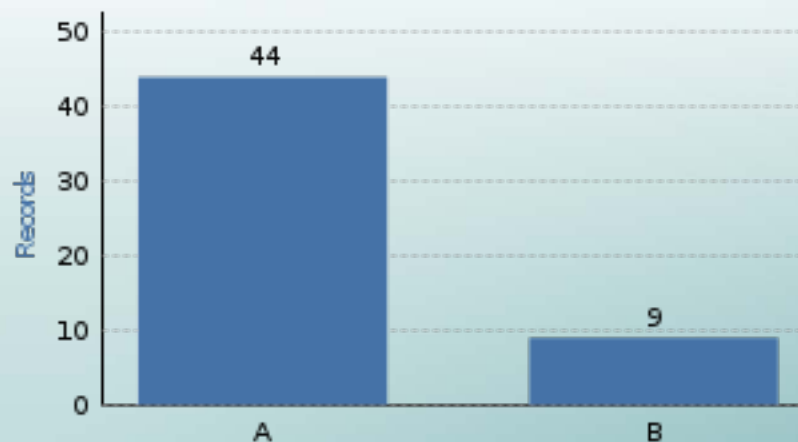
Data Outputs

	A	B	C	D	E	F	G	H
1	Last Submitter	Start Record Date	End Record Date	Last Submission Date	region	Arm	WoredaName	HealthCenter
2	mnoel@jsi.com	2012-07-11 11:33:33	2012-07-11 11:33:33	2012-07-11 11:33:33	TI	intensive	Adwa	eshir
3	mnoel@jsi.com	2012-07-12 17:13:13	2012-07-12 17:13:13	2012-07-12 17:13:13	TI	non-intensive	Asiged Tsimbla	maihanse
4	mnoel@jsi.com	2012-07-12 14:59:59	2012-07-12 14:59:59	2012-07-12 14:59:59	TI	non-intensive	Asiged Tsimbla	kisad gaba
5	mnoel@jsi.com	2012-07-13 10:38:38	2012-07-13 10:38:38	2012-07-13 10:38:38	TI	non-intensive	Asiged Tsimbla	edaga hibret
6	mnoel@jsi.com	2012-07-13 12:09:09	2012-07-13 12:09:09	2012-07-13 12:09:09	TI	non-intensive	Asiged Tsimbla	endabaguna
7	mnoel@jsi.com	2012-07-12 11:36:36	2012-07-12 11:36:36	2012-07-12 11:36:36	TI	non-intensive	Asiged Tsimbla	debremariam
8	mnoel@jsi.com	2012-07-11 17:22:22	2012-07-11 17:22:22	2012-07-11 17:22:22	TI	non-intensive	Asiged Tsimbla	adi gebru
9	mnoel@jsi.com	2012-07-10 14:41:41	2012-07-10 14:41:41	2012-07-10 14:41:41	TI	intensive	Adwa	yeha
10	mnoel@jsi.com	2012-07-10 10:10:08	2012-07-10 10:10:08	2012-07-10 10:10:08	TI	intensive	Adwa	wedi keshi
11	mnoel@jsi.com	2012-07-09 16:10:10	2012-07-09 16:10:10	2012-07-09 16:10:10	TI	intensive	Adwa	rahiya
12	mnoel@jsi.com	2012-07-10 16:26:26	2012-07-10 16:26:26	2012-07-10 16:26:26	TI	intensive	Adwa	gendebta
13	mnoel@jsi.com	2012-07-10 12:22:22	2012-07-10 12:22:22	2012-07-10 12:22:22	TI	intensive	Adwa	bete yohanis
14	mnoel@jsi.com	2012-05-15 11:04:04	2012-05-15 11:04:04	2012-05-15 11:04:04	AM	intensive	Mecha	merawi
15	mnoel@jsi.com	2012-05-13 10:00:09	2012-05-13 10:00:09	2012-05-13 10:00:09	AM	intensive	Yilmana Densa	enegadi
16	mnoel@jsi.com	2012-05-22 16:16:16	2012-05-22 16:16:16	2012-05-22 16:16:16	AM	non-intensive	Tenta	fito
17	mnoel@jsi.com	2012-05-25 09:48:48	2012-05-25 09:48:48	2012-05-25 09:48:48	AM	non-intensive	Tenta	billa
18	mnoel@jsi.com	2012-05-23 09:49:49	2012-05-23 09:49:49	2012-05-23 09:49:49	AM	non-intensive	Tenta	ajbar
19	mnoel@jsi.com	2012-05-24 15:01:01	2012-05-24 15:01:01	2012-05-24 15:01:01	AM	non-intensive	Mekdela	gogos
20	mnoel@jsi.com	2012-05-24 11:33:33	2012-05-24 11:33:33	2012-05-24 11:33:33	AM	non-intensive	Mekdela	debrezeit
21	mnoel@jsi.com	2012-05-26 10:01:03	2012-05-26 10:01:03	2012-05-26 10:01:03	AM	non-intensive	Kalu	ketetiya
22	mnoel@jsi.com	2012-05-26 15:51:02	2012-05-26 15:51:02	2012-05-26 15:51:02	AM	non-intensive	Kalu	degan
23	mnoel@jsi.com	2012-05-26 14:42:42	2012-05-26 14:42:42	2012-05-26 14:42:42	AM	non-intensive	Kalu	endode

Basic Analysis

Is the stock card available for cotrimoxazole 120mg tabs?

Label	Name	Code	Value	%
A	Yes	1	44	59.5
B	No	0	9	12.2
		Total	53	71.7



What is the physical count (usable stock only) of cotrimoxazole 480mg tabs today?

Measure	Value
Mean	89742.2
Maximum	816400.0
Minimum	0.0

Advantages

- Easy to design data collection tools
- Flexible to accept many kinds of data – open text, bivariate, multiple response, coded - numeric or text
- Multiple ways to transmit data to site
- Relatively low cost, especially formatted text option
- Best for short monitoring reports

Limitations

- Limited ability to perform calculations within the program – do this after data are collected, ex.OFR, stock status
- Smart phones can be prohibitively expensive for community and low resource settings
- Heavy front end work (design and training) required for larger data collection activities

Programs:

- Available programs using ODK (Open Data Kit) platforms:
 - iFormBuilder, FormHub, ODK Collect, KoBo Toolbox
 - Proprietary software:
 - Magpi, CommCare
- * All require some programming skills **except Magpi***

Thank you!

