

A CAPI Logistic System

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IBUC 2015, April 13, 2015, Beijing, China



Statistics
Netherlands

Caribbean Netherlands (CN)

- Islands Bonaire, Saba and Sint-Eustatius
- Original part of the Dutch Antilles
- Since 2010 municipalities of The Netherlands
- Small office of Statistics Netherlands on Bonaire
- Languages: Dutch, English, Spanish and Papiamentu
- Currency: US \$

Starting with tablets

- Until 2012 all surveys paper based
- November 2012: study visit to Sint-Maarten
 - Using Android tablets, questionnaires with Open Data Kit (ODK)
- After the visit a successful Business Case was created
 - Windows tablets, questionnaires in Blaise
- 10 Dell tablets were bought and delivered first week of March 2013 and 5 more in May
- First pilot 15th March 2013 with existing Access application for Household Budget Survey

Pilot with Blaise

- Omnibus Survey: June - July 2013
 - Consumer Price Index: start Bonaire April 2013, Sint-Eustatius August 2013, Saba November 2013
 - Economic Cycle Survey: November 2013
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- Individual management shell
 - Improved but separate data import/export
 - No “track & trace”
 - Data communication with separate sending and receiving

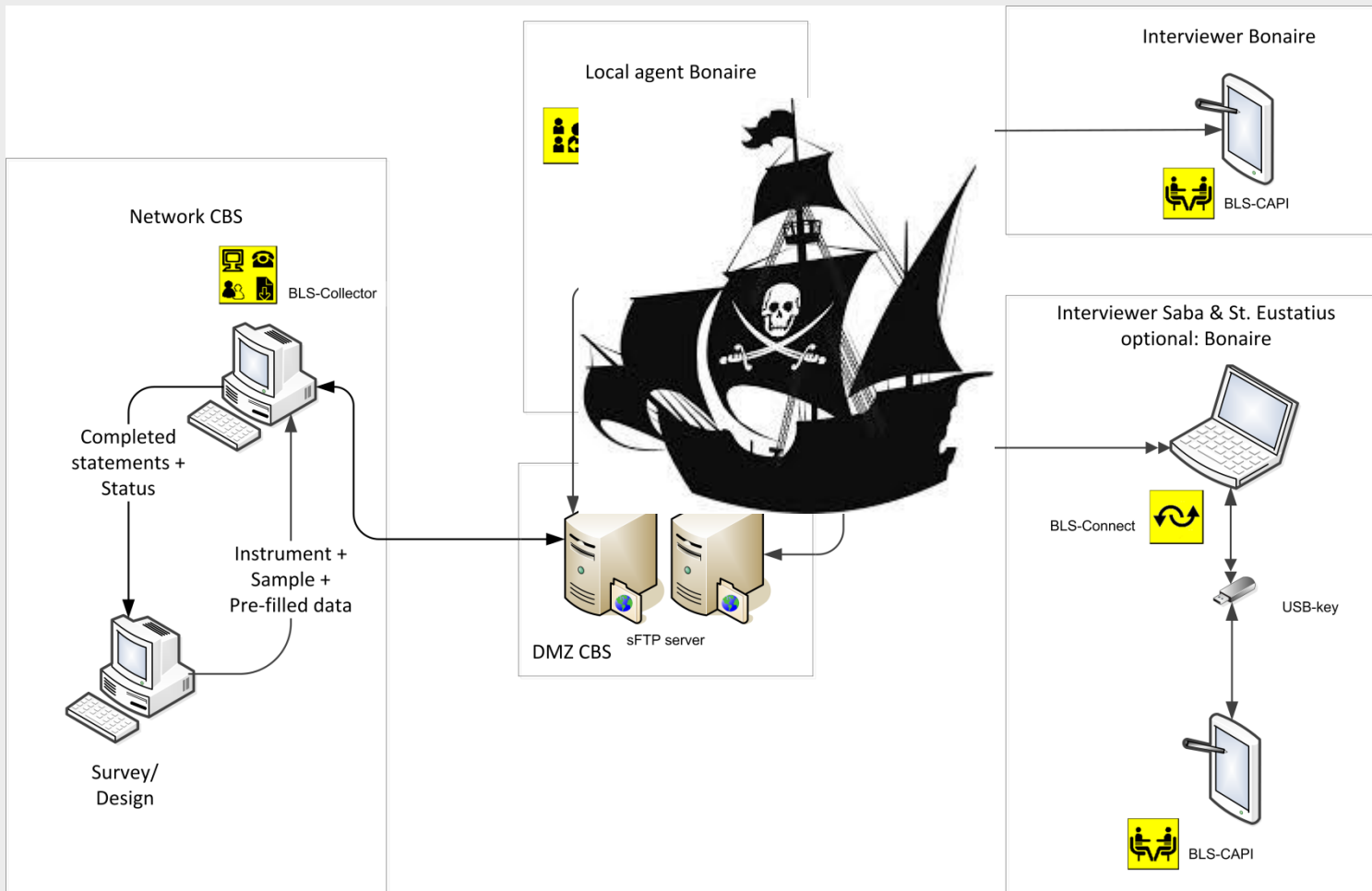
Needs and features

Next survey LFS (starting October 2014) but:

Need of a structural solution including:

- “Track & trace”
- Integrated 2-way data communication
- Multilingual
- Logging
- etc...

A CAPI Logistic System: The "PILOT OF THE CARIBBEAN"!





BLS-Collector

- Runs on the network (or computer) in the main office of the data collector
- Controls the complete data collection process
- Instruments and Surveys are supported in BLS-Collector before they are sent directly to interviewers
- The completed status is reported by BLS-Collector and distributed to the survey departments
- This action is registered so the main office always has an overview of the progress of the data collection





BLS-Agent

- Runs on the computer of a local agent (a local agent is an interface between the main office and a group of interviewers)
- Receives and distributes survey cases sent with the BLS-Agent
- Collects data and divides them over interviewers
- The data is sent to the main office
- This action is registered so the local agent always has an overview of the progress of the data collection





BLS-Connect

- Serves as a connection point between a main office or local agent on one side and a remote office on the other side
- Connects 2 different networks e.g. secure FTP (sFTP)



BLS-CAPI

- Runs on the laptop of the
- Manages the assignment
- Communicates with the
the messaging function
- A laptop or tablet can be used
with his or her own



office using

ervers each


Configurations

- BLS-Collector — BLS-CAPI
- BLS-Collector — BLS-CAPI
- BLS-Collector — BLS-CAPI
- BLS-Collector — BLS-CAPI connect — BLS-CAPI



The dashboard (BLS-CAPI)

BLS-CAPI - Interviewer 04662504

 Interview Administration Messages Receive/send View Program
Questionnaire Administration Open Start Options Addresses Language Exit
Undo Appointment Channel: Key/card Settings

Questionnaires

Code	Name	Duration
AKO_CN	Labour force survey Caribbean Netherlands	1:30
BEO_CN	Visitors exit survey	0:15
LeisureSurvey	Leisure survey	0:10

1:3

Addresses (AKO_CN) Sortorder: ZIP-code Show addresses sent

ZIP-code	Address	Name (telephone)	From	Untill	Appointment	Status
3005-110	BELLEVUEROAD 2F	Medill, Mary				[opened]
3005-110	BELLEVUEROAD 4F	Taylor, Joseph Frank				
3005-110	BELLEVUEROAD 7F					
3005-110	BIG PASTUREROAD 1F	Wesley, Patricia Winifred				
3005-110	BIG PASTUREROAD 3F	Tolboom, Johanna Grada				
3005-110	BIGSTONEROAD 0	Palermo, Joey Charles				
3005-110	BIGSTONEROAD 5	Pharo, Craig Forbes Tempest				
3005-110	FRENCH LEAVEROAD 0	Zagers, Dean Stuart				

1:23



Results (1)

- The interviewers were quite satisfied with the tablets and the application
- No problem with the size or the weight of the Dell tablets
- The contrast of the screen was sufficient
- As the interviews were held inside they were not bothered by sunlight
- The battery lasted several days so there was no problem during interviews with the power



Results (2)

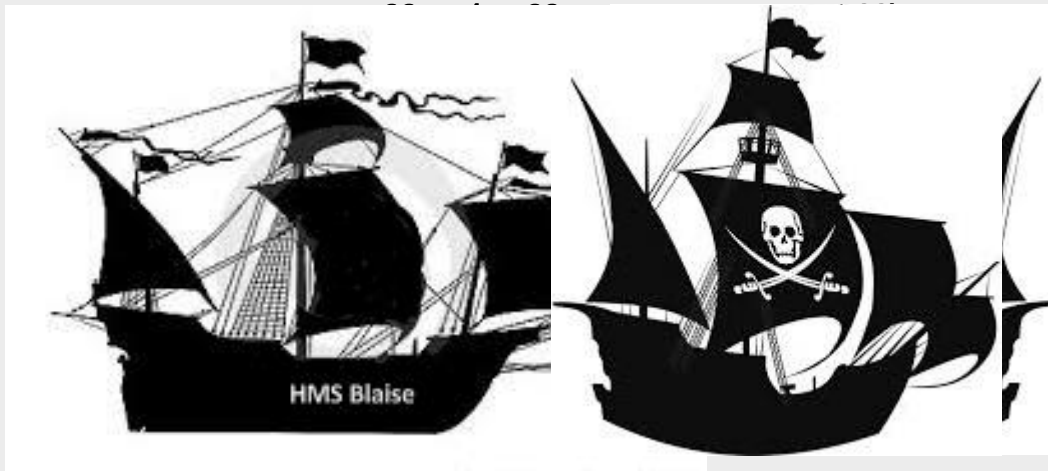
- Logging on twice (tablet and application) was annoying
- This protection is regarded as necessary: pre-filled interviewer number added in later version
- The layout was ok
- All the texts were clear and no buttons were missing
- No need for context sensitive help

Faculty USB-keys, a firewall and the migration of the sFTP-server caused errors: the data communication should be more robust



Datacom

- Separate configurable scripts, multi channel



...s the server

...per client

...payload

- Robust
 - Receipt confirmations
 - “Resend” setting at client side

What next?

In Caribbean Netherlands:

- First week of May: implementation of new version
- Price Level Survey (Maniplus instrument)
- Visitors Exit Survey (Blaise 5 instrument)

In The Netherlands:

- Not yet sure: an investigation if the CPLS can be connected to the current survey system “SEA” (a small PoC showed the data is rich enough)

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DEMO TOMORROW!