

International Passenger Survey Paper to Tablet Collection

Mike Hart

IPS – Paper to Tablets

- **To investigate and establish the technical feasibility of a corporate build tablet for the collection and transmission of IPS Data via a secure connection to ONS.**
- **Can we collect data on tablets**
- **Are Tablets usable in IPS locations**

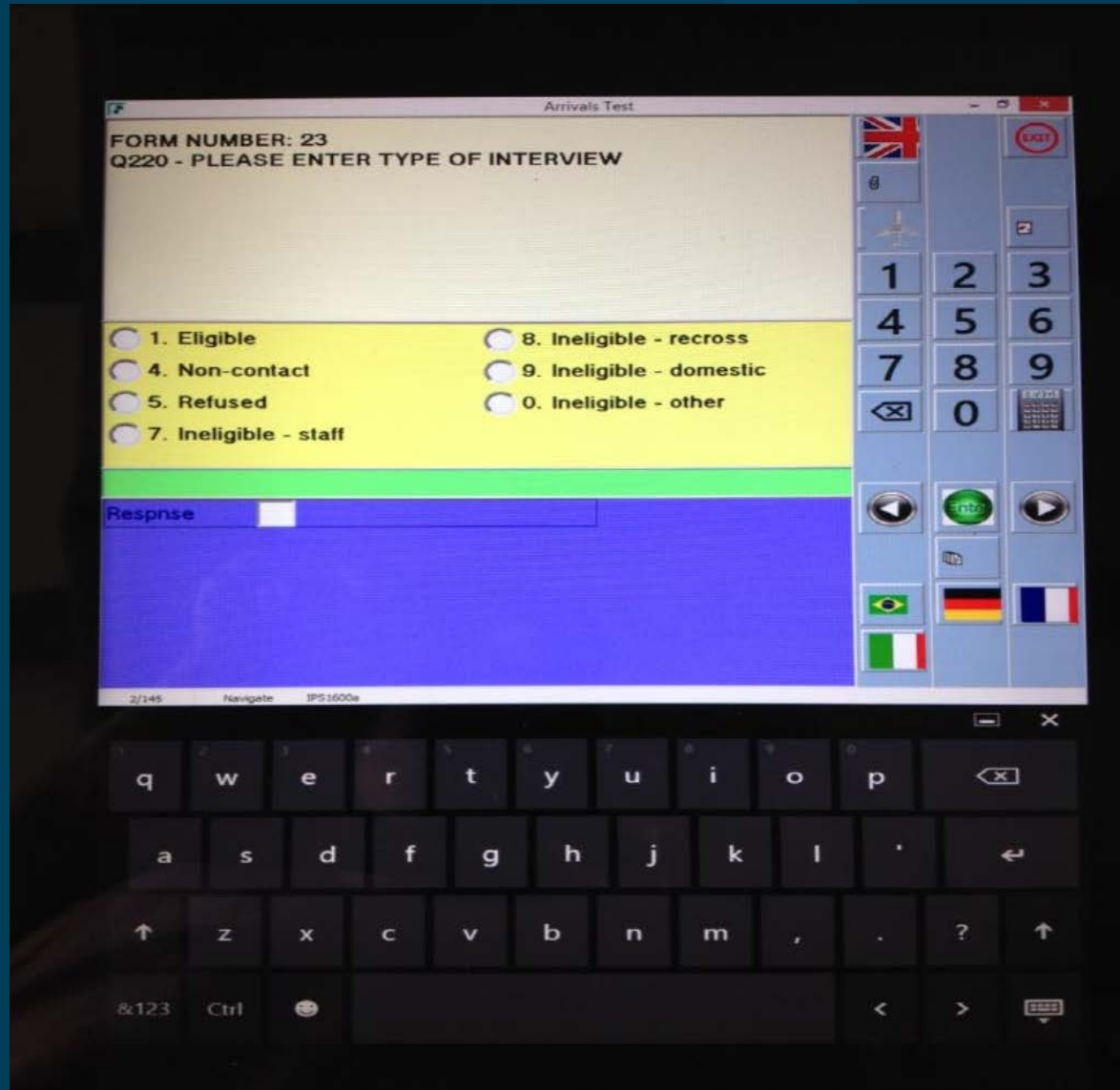
IPS – The Challenge

<p>55. While in the UK, did you use any of the following types of transport?</p> <p>Code all that apply</p> <p>Domestic flight <input type="checkbox"/> 1</p> <p>Bus, tube, tram or metro train (within town/city) <input type="checkbox"/> 2</p> <p>Train (outside town/city) <input type="checkbox"/> 3</p> <p>Taxi <input type="checkbox"/> 4</p> <p>Public bus/coach (outside town/city) <input type="checkbox"/> 5</p> <p>Private coach/minibus (for group only) <input type="checkbox"/> 6</p> <p>Hired self-drive car/hire car <input type="checkbox"/> 7</p> <p>Car/vehicle you/group brought to the UK <input type="checkbox"/> 8</p> <p>Ferry/boat <input type="checkbox"/> 9</p> <p>None of these <input type="checkbox"/> 10</p>		<p>200. SEX</p> <p>Male <input type="checkbox"/> 1 Female <input type="checkbox"/> 2</p>	
<p>56. During your UK visit did you buy any of these items to take home, either for yourself or for someone else?</p> <p>Code all that apply</p> <p>Clothes or shoes <input type="checkbox"/> 1</p> <p>Personal accessories e.g. jewellery <input type="checkbox"/> 2</p> <p>Bags, purses etc. <input type="checkbox"/> 3</p> <p>Cosmetics or toiletries e.g. perfume <input type="checkbox"/> 4</p> <p>Books or stationary <input type="checkbox"/> 5</p> <p>Games, toys or gifts for children <input type="checkbox"/> 6</p> <p>Food or drink <input type="checkbox"/> 7</p> <p>CDs, DVDs, computer games etc. <input type="checkbox"/> 8</p> <p>Electrical or electronic items e.g. camera <input type="checkbox"/> 9</p> <p>Items for your home e.g. furnishing <input type="checkbox"/> 10</p> <p>Other holiday souvenir (not mentioned above) <input type="checkbox"/> 11</p> <p>None of these <input type="checkbox"/> 12</p>		<p>201. AGE</p> <p>0-15 <input type="checkbox"/> 1 15-24 <input type="checkbox"/> 2</p> <p>0-15 party <input type="checkbox"/> 3 25-44 <input type="checkbox"/> 4</p> <p>10-24 <input type="checkbox"/> 5 45-54 <input type="checkbox"/> 6</p> <p>10-24 party <input type="checkbox"/> 7 55-64 <input type="checkbox"/> 8</p> <p>65 and over <input type="checkbox"/> 9</p>	
<p>57. Stayed in Wales <input type="checkbox"/> X</p> <p>All others <input type="checkbox"/> Z</p>		<p>220. Response</p> <p>Complete <input type="checkbox"/> 1</p> <p>Partial <input type="checkbox"/> 2</p> <p>Minimum <input type="checkbox"/> 3</p> <p>Non-contact <input type="checkbox"/> 4</p> <p>Refused <input type="checkbox"/> 5</p> <p>Ineligible</p> <p>staff <input type="checkbox"/> 7</p> <p>refuses <input type="checkbox"/> 8</p> <p>domestic <input type="checkbox"/> 9</p> <p>other SPECIFY <input type="checkbox"/> 0</p>	
<p>58. During your visit to Wales, which of the following activities did you take part in?</p> <p>Code all that apply</p> <p>Visiting parks or gardens <input type="checkbox"/> 1</p> <p>Visiting castles/historic houses <input type="checkbox"/> 2</p> <p>Visiting religious buildings <input type="checkbox"/> 3</p> <p>Visiting museums or art galleries <input type="checkbox"/> 4</p> <p>Theatre/musicals/opera/ballet <input type="checkbox"/> 5</p> <p>Attend a festival <input type="checkbox"/> 6</p> <p>Going to the pub <input type="checkbox"/> 7</p> <p>Going to coast or beaches <input type="checkbox"/> 8</p> <p>Going to countryside/villages <input type="checkbox"/> 9</p> <p>Going to live sports events <input type="checkbox"/> 10</p> <p>Take part in sports activities <input type="checkbox"/> 11</p> <p>None of these <input type="checkbox"/> 12</p>		<p>202. Date</p> <p>2013</p>	
<p>59. In which, if any of these ways did the Games influence your visit?</p> <p>Code all that apply</p> <p>I would not have visited the UK otherwise <input type="checkbox"/> 1</p> <p>I was inspired to visit earlier <input type="checkbox"/> 2</p> <p>I visited (later) than I would have otherwise <input type="checkbox"/> 3</p> <p>I visited different parts of the UK <input type="checkbox"/> 4</p> <p>Other (please specify) <input type="checkbox"/> 5</p>		<p>203. Interviewer name</p> <p>TICK HERE TO INDICATE ANY QUERIES ON QUESTIONNAIRE</p>	

<p>Questionnaire Number</p>		<p>AIR DEPARTURES 2013 (2) IN CONFIDENCE</p>	
<p>C. AM <input type="checkbox"/> 1 PM <input type="checkbox"/> 2</p>		<p>1. What nationality passport do you hold?</p> <p>UK <input type="checkbox"/> 1 Irish Rep. <input type="checkbox"/> 3</p> <p>Germany <input type="checkbox"/> 2 USA <input type="checkbox"/> 4</p>	
<p>F. FLIGHT</p> <p>Interviewer record <input type="checkbox"/> H</p> <p>Selection time <input type="checkbox"/> H</p>		<p>ALL OTHERS:</p> <p><input type="checkbox"/></p>	
<p>H. Which flight are you leaving on?</p> <p><input type="checkbox"/> J</p>		<p>2. In which countries have you been living (working/studying) for the last 12 months?</p> <p>UK <input type="checkbox"/> 1</p> <p>Germany <input type="checkbox"/> 2 Irish Rep. <input type="checkbox"/> 3 USA <input type="checkbox"/> 4</p>	
<p>J. Which airport are you going to on this particular flight?</p> <p><input type="checkbox"/> K</p>		<p>ALL OTHERS:</p> <p><input type="checkbox"/> 5</p>	
<p>K. Are you going there just to change planes or will your air journey end there?</p> <p>Change <input type="checkbox"/> 1</p> <p>End <input type="checkbox"/> 2</p>		<p>3. Where are you living (working/studying) now?</p> <p>2+ countries <input type="checkbox"/> X</p> <p>Foreign resident <input type="checkbox"/> Y</p>	
<p>L. At which airport will your (air) journey end?</p> <p>(Exclude other transit stops)</p> <p><input type="checkbox"/> M</p>		<p>4. Will you complete 12 months in (country at Q2) in total - including time spent away on holiday or business?</p> <p>Yes, UK resident <input type="checkbox"/> X</p> <p>Yes, Foreign resident <input type="checkbox"/> Y</p> <p>No <input type="checkbox"/> Z</p>	
<p>M. INTERVIEWER CODE:</p> <p>Type of flight at K</p> <p>Private <input type="checkbox"/> 1</p> <p>Scheduled <input type="checkbox"/> 2</p> <p>Charter <input type="checkbox"/> 3</p>		<p>5. Which is the last country you have lived in for 12 months or longer?</p> <p>(If UK total over 12 months ago, take country lived in longest since then)</p> <p>UK resident <input type="checkbox"/> X</p> <p>Foreign resident <input type="checkbox"/> Y</p> <p>Not clear <input type="checkbox"/> Z</p>	
<p>N. Destination of flight from the UK (given on Mayfly)</p> <p><input type="checkbox"/> I</p>		<p>6. Residents of Austria, China, Denmark, Norway or Russia <input type="checkbox"/> X</p> <p>All other foreign residents <input type="checkbox"/> Y</p>	
<p>TICK HERE TO INDICATE ANY QUERIES ON QUESTIONNAIRE</p>		<p>(a) Do you live in any of these cities? IF NO, ASK WHICH REGION/STATE (Use scale to ensure correct coding)</p> <p>Use code 98 for quarter code 99 for UK <input type="checkbox"/> 10</p>	
<p>7. Which countries are you visiting on this trip? (Record ONLY countries will spend the most time in)</p> <p>Spain <input type="checkbox"/> 1 France <input type="checkbox"/> 3</p> <p>Germany <input type="checkbox"/> 2 USA <input type="checkbox"/> 4</p>		<p>11. ASK OR RECORD</p> <p>Will you stay away from the UK for more than 3 months?</p> <p>Yes <input type="checkbox"/> 1</p> <p>DK, possibly more than 3 months <input type="checkbox"/> 2</p> <p>No <input type="checkbox"/> 3</p>	
<p>ALL OTHERS:</p> <p><input type="checkbox"/> 5</p>		<p>12. ASK OR RECORD</p> <p>Will you stay away from the UK for more than 6 months?</p> <p>Yes <input type="checkbox"/> 1</p> <p>DK, possibly more than 6 months <input type="checkbox"/> 2</p> <p>No <input type="checkbox"/> 3</p>	
<p>14. ASK OR RECORD</p> <p>(May I just check) will you or might you be working during your visit?</p> <p>Yes <input type="checkbox"/> 1</p> <p>No <input type="checkbox"/> 2</p>		<p>13. ASK OR RECORD</p> <p>Will you stay away from the UK for more than 6 months?</p> <p>Yes <input type="checkbox"/> 1</p> <p>DK, possibly more than 6 months <input type="checkbox"/> 2</p> <p>No <input type="checkbox"/> 3</p>	
<p>15. Could this work keep you abroad for more than 3 months?</p> <p>Yes <input type="checkbox"/> 1</p> <p>DK, possibly <input type="checkbox"/> 2</p> <p>No <input type="checkbox"/> 3</p>		<p>14. ASK OR RECORD</p> <p>(May I just check) will you or might you be working during your visit?</p> <p>Yes <input type="checkbox"/> 1</p> <p>No <input type="checkbox"/> 2</p>	



IPS – The Challenge



IPS – Blaise 5 to Blaise 4

Office for National Statistics **Main Questionnaire**

Are you going there to change planes or will your air journey end there?

Change

End

? At which airport will your (next) air journey end?

Don't know

Airport name cannot be found. Please enter query details

some information...

SAMSUNG

Office for National Statistics **Main Questionnaire**

How satisfied were you with the food and drink in the UK?

Very satisfied

Quite satisfied

Neither

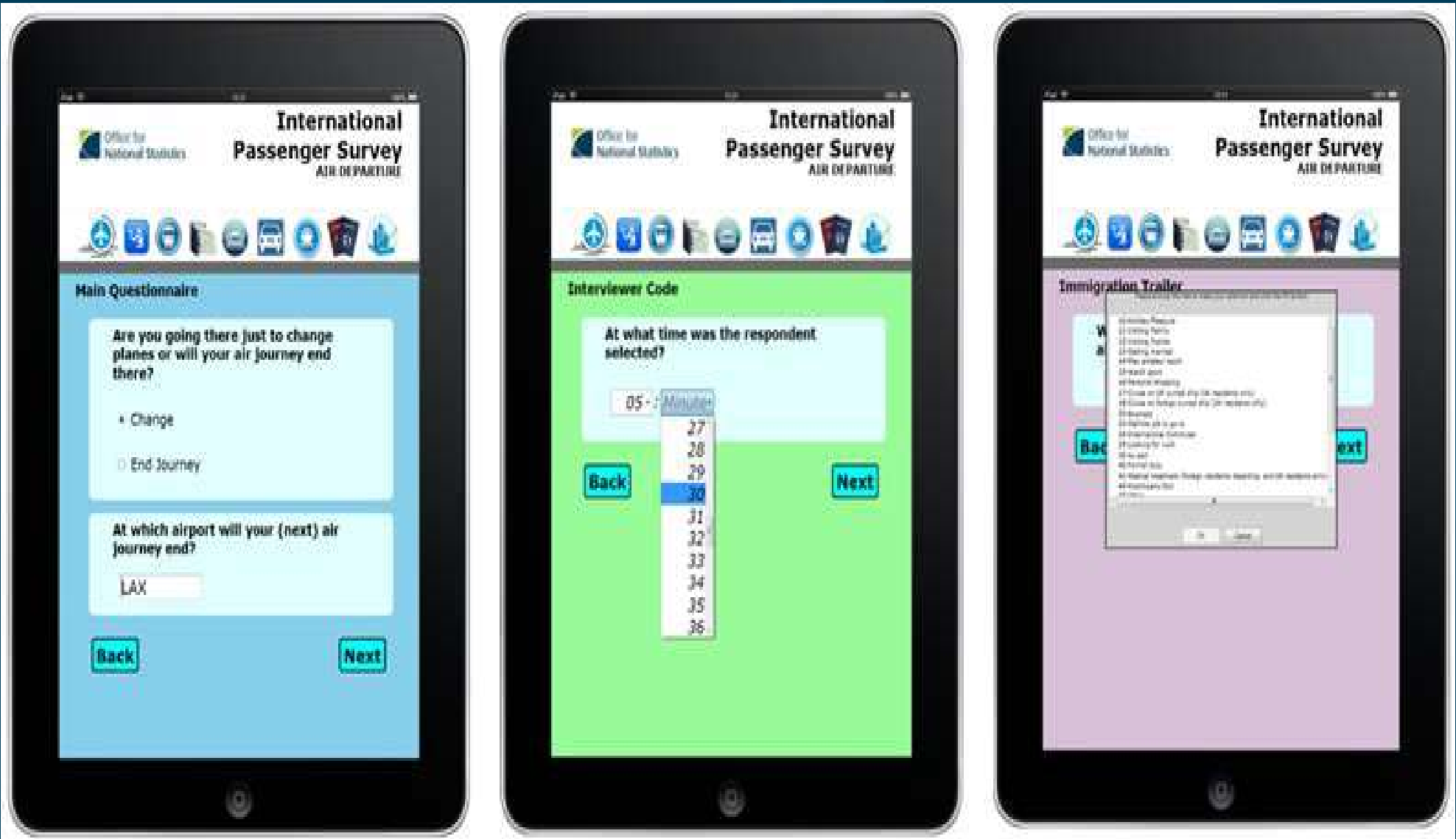
Quite dissatisfied

Very dissatisfied

Don't know/NA

SAMSUNG

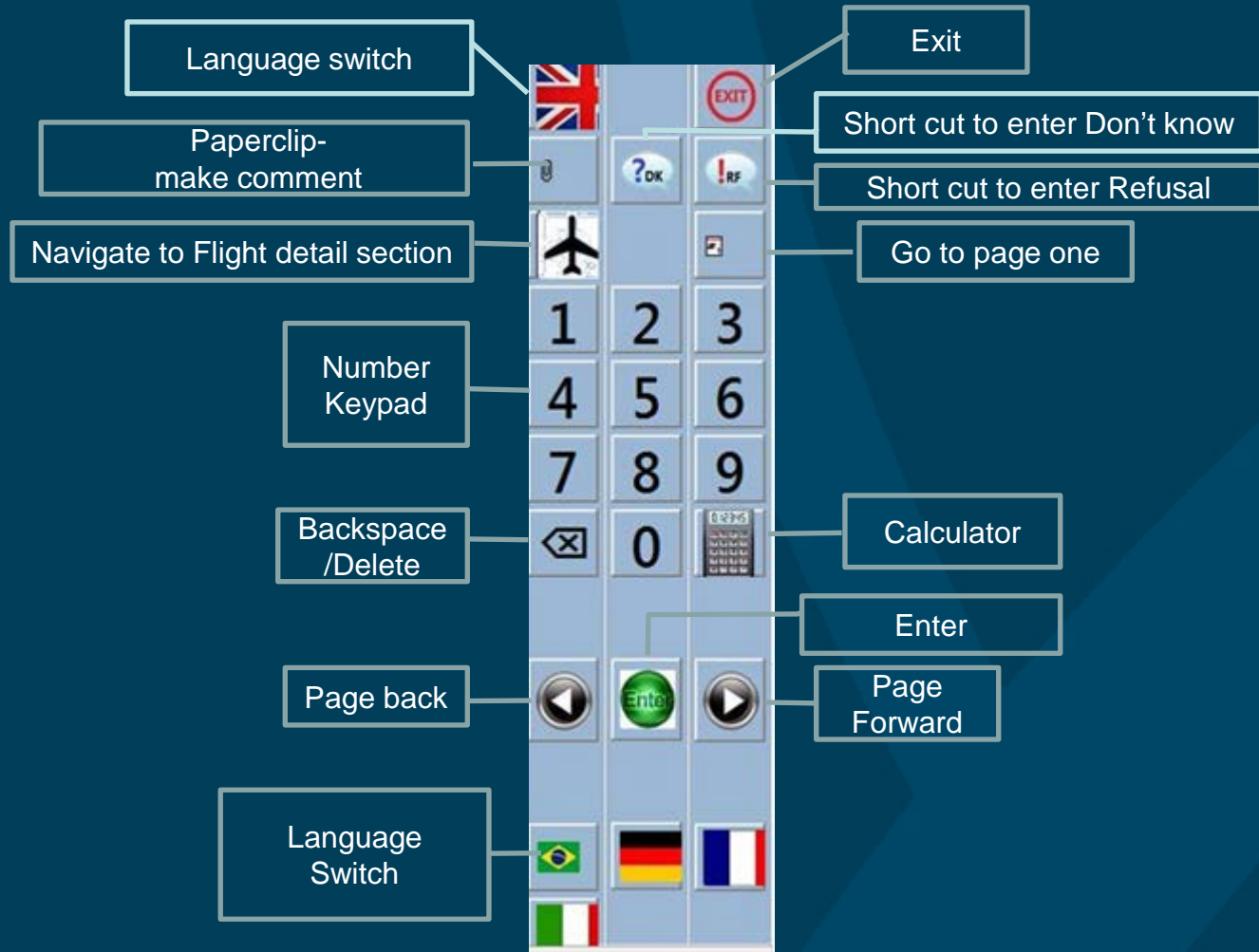
IPS – Blaise 5 to Blaise 4



IPS – AGILE Development

- **Satisfy the customer through early and continuous delivery of software**
- **Fail fast - fail often**
- **DevOps Teams**

Navigation Panel



Collecting dates

Data model for January 2016 version a - Field A version
Show Watch Window

Q25 - On what date did you arrive in the UK?

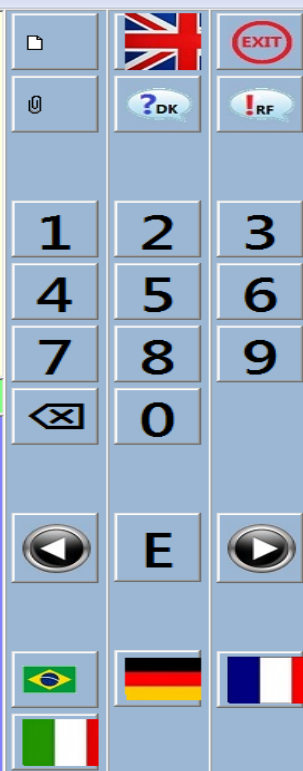
(ENTER dd mm yyyy shown in BOTTOM BOX)

Enter a valid date

VisitBegan 27/01/2016

January 2016						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

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Collecting dates

Data model for January 2016 version a - Field A version

Show Watch Window

Q25 - On what date did you arrive in the UK?
(ENTER dd mm yyyy shown in BOTTOM BOX)

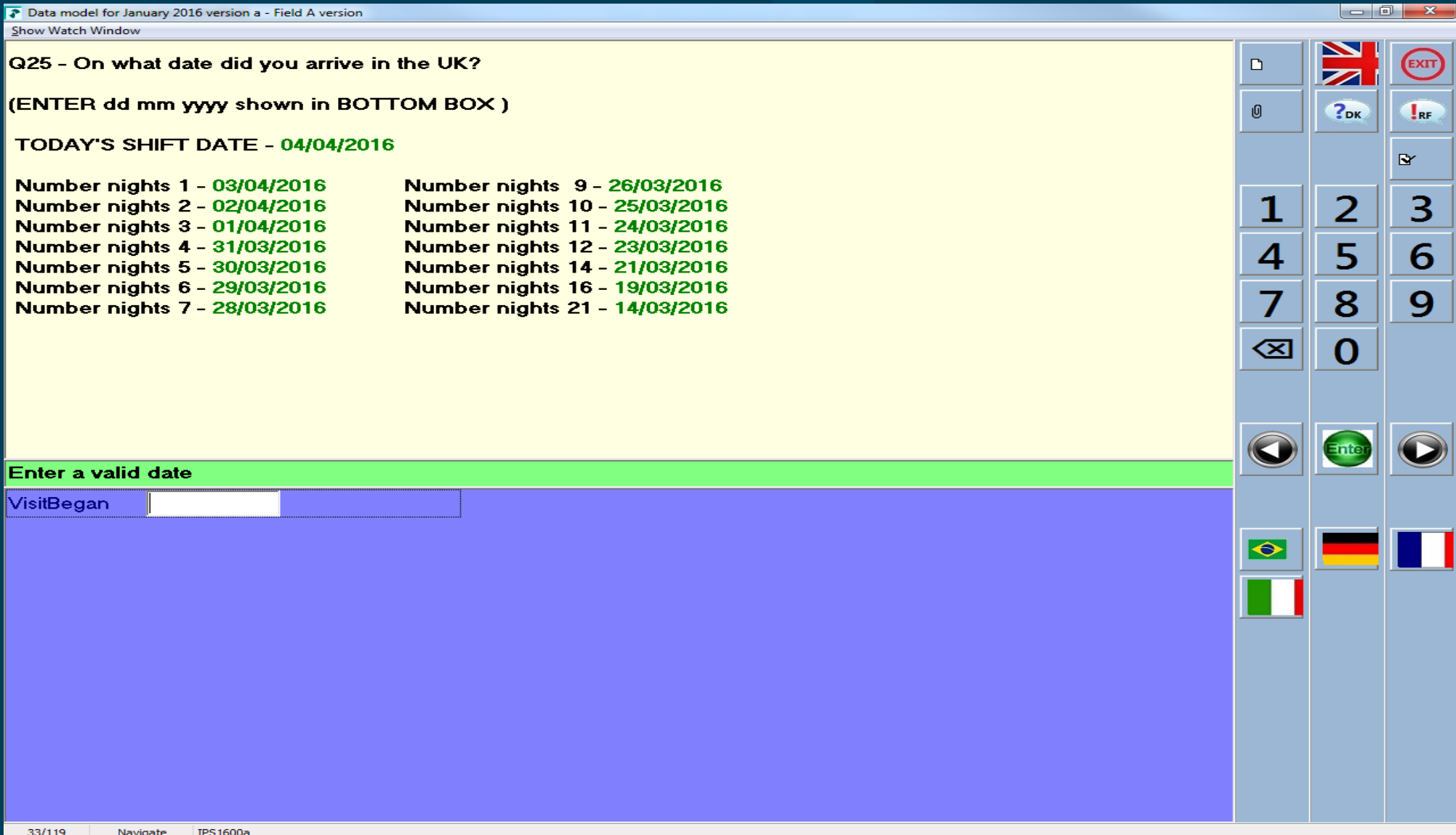
TODAY'S SHIFT DATE - 04/04/2016

Number nights 1 - 03/04/2016	Number nights 9 - 26/03/2016
Number nights 2 - 02/04/2016	Number nights 10 - 25/03/2016
Number nights 3 - 01/04/2016	Number nights 11 - 24/03/2016
Number nights 4 - 31/03/2016	Number nights 12 - 23/03/2016
Number nights 5 - 30/03/2016	Number nights 14 - 21/03/2016
Number nights 6 - 29/03/2016	Number nights 16 - 19/03/2016
Number nights 7 - 28/03/2016	Number nights 21 - 14/03/2016

Enter a valid date

VisitBegan

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The interface includes a numeric keypad on the right side with buttons for digits 0-9, a backspace key, and navigation keys (left and right arrows). There are also buttons for language selection (UK, Brazil, Germany, France, Italy) and function keys like '?DK', '!RF', and 'EXIT'. The 'Enter' key is highlighted in green.

Maps – what to do with them



Cities and Regions

Data model for January 2016 version a - Field A version
Show Watch Window

Q6 Do you live in any of these cities?

Basel

Bern City

Biel / Bienne

Geneve / Genf City

Lugano

Lausanne

St. Gallen (City)

Winterthur

Zurich (City)

None of these

TownSwed
StateSwed
TownSwiss
StateSwiss

Navigation and Control Panel:

- EXIT
- ?DK
- !RF
- 1-9, 0
- Enter
- Navigation arrows
- Flags: UK, Brazil, Germany, France, Italy

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Nationality

Data model for January 2016 version a - Field A version

Show Watch Window

Q1 - What nationality passport do you hold?

1. UK - United Kingdom

2. USA - United States of America

3. France

4. Germany

5. Poland

6. EIRE - Republic of Ireland

7. Italy

8. Spain / Balearic

9. Netherlands

10. OZ - Australia

11. India

12. Canada

13. Romania

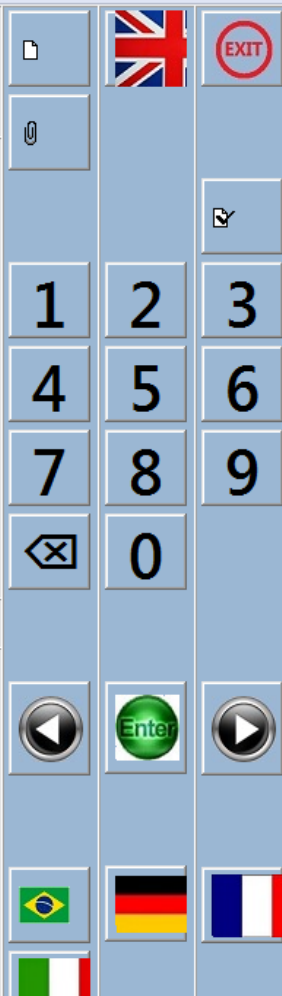
14. Sweden

15. None of these

900 threeNat

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10:22
07/04/2016



The navigation panel on the right side of the screen contains several elements: a document icon, a paperclip icon, a checkmark icon, a numeric keypad (0-9), a back arrow icon, an 'Enter' button, a forward arrow icon, and flags for the United Kingdom, Brazil, Germany, France, and Italy. There is also a red 'EXIT' button in the top right corner.

Nationality

Data model for January 2016 version a - Field A version

Hide Watch Window

Q1 - What nationalities are represented in the data?
FOR FURTHER INFORMATION
FREQUENTLY USED NATIONALITIES

- Australia OZ
- Austria AS
- Belgium BE
- Canada CD
- India IDA
- Chnnl Islands CH
- Indonesia ISA
- New Zealand NZ
- Malta MLA
- Norway NV
- Turkey TK
- Turkish Republic of

Enter a text of at most 30 characters

900 threeNat

Nationality 3 code

THEKEY	NUMKEYS	COUNTRYA	CODE	HARMON
SWI	3	Switzerland	2600	CH
SWITZERLAND	11	Switzerland	2600	CH

Search: swi

1:2

Select Cancel

18/119 Insert IPS1600a

10:18 07/04/2016

IPS – Live Tests

- **Bristol Trial – Air Departures**
- **Heathrow – Air Departures**
- **Manchester – Air Arrivals**
- **Portsmouth – Port Arrivals**

IPS Next Steps

High level (epic) features

Maturity Level 1

- Questionnaire User Interface for tablet

Maturity Level 2

- Corporate Windows tablet build
- Corporate wifi data transmission system
- Tablet specific IPS questionnaire developed
- Implementation strategy defined

Maturity Level 3

- Live data collection via tablets at one or more port (s)
- Live data transmission and processing
- Capacity to deliver concurrent data collection and transmission over multiple sites

IPS Tablet Data Collection Beta

Maturity Level 4

- Electronic data collection for all IPS shift types
- Electronic shift return
- Deployment to all remaining IPS sites initiated
- Reduced site accommodation

Jul–Sep 16

Sep 16–Jan 17

Feb 17–Apr 17

May 17–Sep 17

Business Process Change

• Knowledge of User Interfaces developed

- Revised tablet based navigation and control
- Scatter/gather of questionnaire objects reviewed
- DTM/SSD Tablet support

• IA Requirements and discontinuity measures understood

- Commence procurement of tablets and peripherals
- IA requirements understood
- New DTM/SSD Tablet support function established
- Discontinuity measures agreed and management process established
- Implementation strategy defined and tested
- MI, coding validation and edit incorporated into tablet
- Review Interviewer guidance/training
- Review organisational design and staffing requirements

• Digital Data Collection at a number of IPS sites

- Review data and implement discontinuity management
- Source data for MI collection confirmed
- Coding, validation and edit impact understood
- Revised Interviewer guidance and training delivered
- Review IPS Team Leader/ Site Manager Role(s)
- Review site/accommodation requirements

• Digital Data Collection at all IPS sites

- Reduced/ eliminated print costs
- Reduced site/accommodation costs
- Revised back-end processes implemented
- Implement revised organisational design
- Review paper archive requirement

Questions?