

CAPI Release Summary - 2023

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15 Dec 2023

CAPI App now supports the ability to detect if the device has an active internet connection.

`GetOfflineInfo().IsConnected`

This script can be helpful in situations where online only APIs need to be called during a survey.

31 Oct 2023

CAPI App now supports the ability to download File Library files based on assigned respondents.

This is useful when custom images need to be shown for each respondent and avoids CAPI users downloading all files contained in the CAPICommon or other designated folders.

Here's how it works:

- In your survey, create a background variable using the following naming convention – “__offline_file_[any text]”
- This variable can be used to indicate the path to a single File Library file.
 - E.g.
<https://survey.euro.confirmat.com/isa/BDJPFRDMEYBPBKLVDAYFQCDAVI/OEQJR/1023.jpg>
- In the Respondent sample upload file, provide the full path to the target map image.
 - Tip: store the images in a folder that will *not* be downloaded by default by CAPI, so any folder other than root, CAPICommon, or assigned project folder. Store it in something like:
 - /Somefolder/...

- Then in your survey, to display the file, just reference the URL from the background variable. e.g.

```
var mapURL = GetRespondentValue('__offline_file_map');

if(mapURL) {

    var filename = mapURL.substring(mapURL.lastIndexOf('/') + 1);

    f('mapfilename').set(filename);

}


```

As part of the CAPI sync, CAPI will loop through each project and assigned respondent. For each background variable that matches the reserved prefix "__offline_file_" the app will make a request to download that specific file only.

This feature is an extension on the existing support for how File Library files are downloaded to CAPI App. The following File Library folders are currently downloaded during a synchronization:

- <Company root> - All CAPI users
 - /CAPICommon - All CAPI users
 - /<CAPI_UserName> - Files destined for that CAPI user. e.g. "CAPI_johnw"
 - /<ProjectId> - Files for specific survey only. e.g. "p1234567890"
-

20 Oct 2023

A new version of CAPI App is now available on Google Play, Apple Appstore and <https://forsta.com/apps> for Windows.

The new capabilities introduced in this version:

- Ability to open an external browser or another app from CAPI
- Ability for another app to open a respondent directly in CAPI

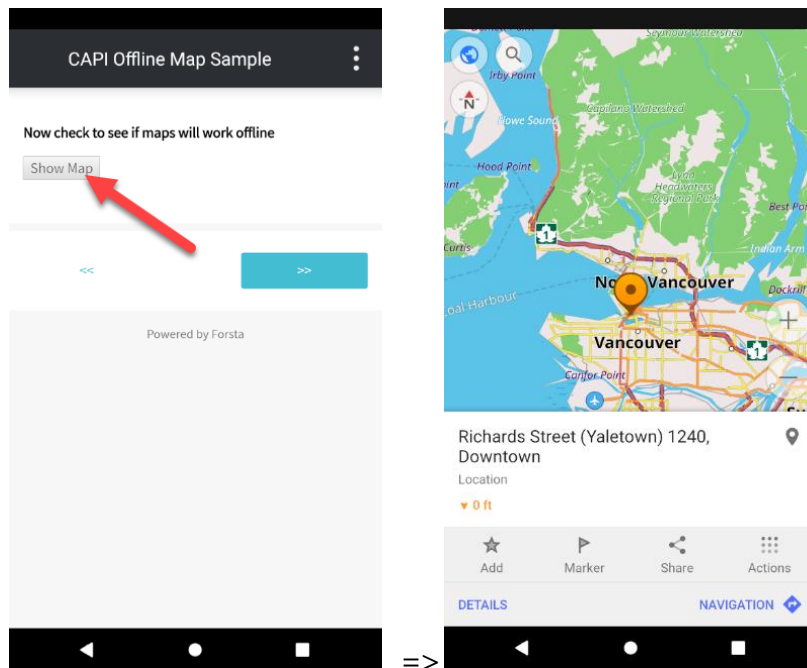
Open Browser or other Apps from a Survey (Android and iOS only)

The JavaScript function `window.open()` is now supported by CAPI App. When used within a survey, can be used to show any external web content within the built-in browser. E.g.

```
<button onclick="window.open('http://forsta.com'); return true;">Forsta</button>
```

However, it is also possible to **open other apps** via deeplinking such as Google Maps or [OsmAnd](#) (a great offline mapping app). Here is an example of opening an offline map app on an Android device:

```
<button onclick="window.open('geo:49.275085,-123.1247132?z=4'); return true;">Show Map</button>
```



Open a CAPI Respondent from Another App (Android Only)

A common use case for CAPI is for on-site door-to-door interviews. In situations where an interviewer receives a pre-loaded assignment of addresses, now with the above feature it is possible to show the interviewer where on a map to proceed. However, some clients have chosen to use another field work application and would like to automatically load that respondent within CAPI.

This capability is now supported with CAPI App for Android using a deeplink that can be called from the source app (or even simply a web browser), e.g.

`forsta://capiapp?projectId=p123456789&respondentId=1234`

17 Aug 2023

Key Highlights:

- Custom data table lookup with offline support
- Secondary screen support

Download:

- Android (v2023.7.6): [Google Play](#)
- Apple (v2023.7.6): [App Store](#)
- Windows (v2023.7.7): <https://forsta.com/apps>

SmartHub Custom Data Table lookup - with offline support!

Something that has been supported within Forsta Plus surveys for a while now is the ability to use a SmartHub Custom Data Table as the source for long list lookups within a

survey. I am very pleased to share that we have now added this same support to CAPI App – and it works offline 🍷

For more details on how to use a Custom Data Table within Survey Designer, see:

<https://forstasurveydesigner.zendesk.com/hc/en-us/articles/6680088194587--SmartHub-Custom-Data-Tables>

As well, it is possible to also perform scripted lookups within a data table rather than simply use it in a visible question. In this way, you can have a very large dataset to perform any type of data lookup, (e.g. list of postal codes, drug list, address list, etc). For more information on performing scripted lookups, see:

<https://forstascripting.zendesk.com/hc/en-us/articles/9948917022363-GetHubCustomTableColumnValues>

Pro TIP: In order for CAPI App to know that a data table should be downloaded with a survey, it is necessary to add a "Table lookup/hierarchy" question to the survey, even if you only plan to perform a scripted lookup. In this event, add the question and simply set to hidden.

FAQs

Q: What is the maximum table size that is supported?

A: Although the existing custom data table AUP is 1m rows, testing has revealed that it is suggested to keep table lookup support to under 100k rows.

Q: If a custom table is referenced by more than one survey assigned to a CAPI user, will the table be downloaded and stored separately for each survey?

A: No, only a single copy of the table will be downloaded/stored, and able to be referenced by more than one survey

Q: How much time does it take to download a large table?

A: Initial download is quite fast (compared to say the entire CAPI sync which is currently a bit slow), here are some approximate speeds (WiFi)

- 4MB table (1000 rows x 100 columns): ~5-10 seconds

Q: Can I change the table schema (e.g. add another column) once the survey is live?

A: Yes, if a schema change is detected, the entire table is redownloaded.

Q: What happens if I add/remove rows from the table or update data in an existing row?

A: CAPI App only downloads the changed records (unless there are a large number of changes, in which event the entire table will be redownloaded, similar to a schema change)

Q: When are custom data tables downloaded/updated?

A: Only during a normal "full" Sync (tapping the sync button)

Secondary Screen Support (Android only)

This provides the ability to have an interview setting where the respondent can be handed a separate Android device (phone or tablet) so that during the interview the interviewer can directly present images or videos directly on the participants device. This provides a way for the interviewer to listen to feedback provided by the respondent to record their experience without having to hand over their primary interviewing device.

Assumptions / Limitations

- Both Primary and Secondary device need to be Android devices (the apps is using an Android specific method to connect)
- Wi-Fi must be On and Location enabled on both devices (but no Wi-Fi network connection is needed either for setup or survey capture as it uses Wi-Fi Direct peer-to-peer)
- Only images or videos can be shown currently (but this could be extended if needed) and files need to be from the File Library (so they are available locally/offline)
- Both Primary and Secondary device need to have the same survey assigned (can be done by simply logging in using the same CAPI Interviewer)

Survey Design

Use JavaScript within the survey to call new functions:

- CapiApp.ShowImage(FileLibraryPath)
- CapiApp.ShowVideo(FileLibraryPath)

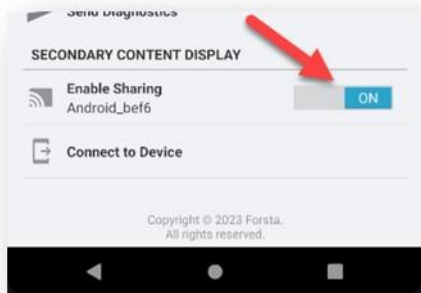
An example of this is to use an HTML button on any question text, for example:

```
<button  
onclick="CapiApp.ShowImage('/isa/BDJPFRDMEYBPBKLVA DAYFQCDAVIOEQJR/capicommon/map.png')">Show Image</button>
```

When the button is tapped, the image/video is immediately shown on the secondary device (using a webview).

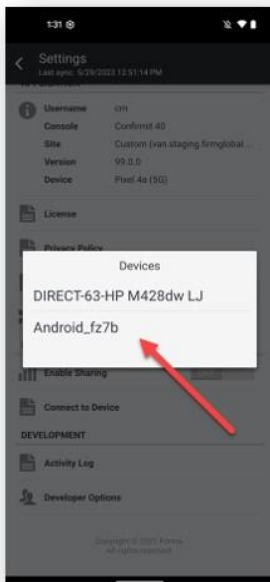
Primary Device Setup

A new app setting is available, simply enable. The name that will be broadcasted will be shown (e.g. Android_fz7b)

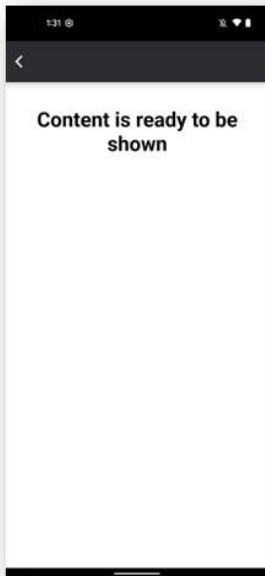


Secondary Device Setup

Connects to the Primary device through a new settings option "Connect to Device"



Once connected, a waiting screen is shown. This is simply a web view waiting for messages from the Primary device

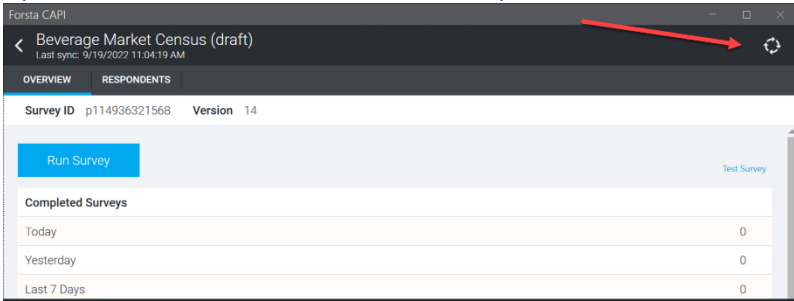


How to show an image/video

When the JS function is called within the survey on the Primary device (e.g. tap button), the image or video is immediately shown on the Secondary device. There is no delay because both devices have access to the same File Library resources as part of the same survey.



Other Misc Features and Bug Fixes

Jira	Summary
CAPI-1631	Added au.hxplatform.com (new Australia Multi Tenant Cloud Site) as for server selection option
CAPI-1526	Disable F5 key (during survey capture, was causing survey to be in an unusable state) CAPI App for Windows only
CAPI-1256	Sync button added to Start Survey screen 
CAPI-1537	Option to display answer codes within survey presentation now supported. This is particularly helpful for Full Keyboard Support on CAPI App for Windows (released in 2023.1.6 in Jan 2023)

CAPI-
1644

Open Text Background variable shows as date in app when populated with something like 7:55

13 Jan 2023

Included in this update:

- CAPI App for iOS minimum OS is now OS 14
- Upgrade to the latest Survey Engine (to match web surveys)
- Support for PG HX Platform site
- Full Keyboard Support (below)

Full Keyboard Support

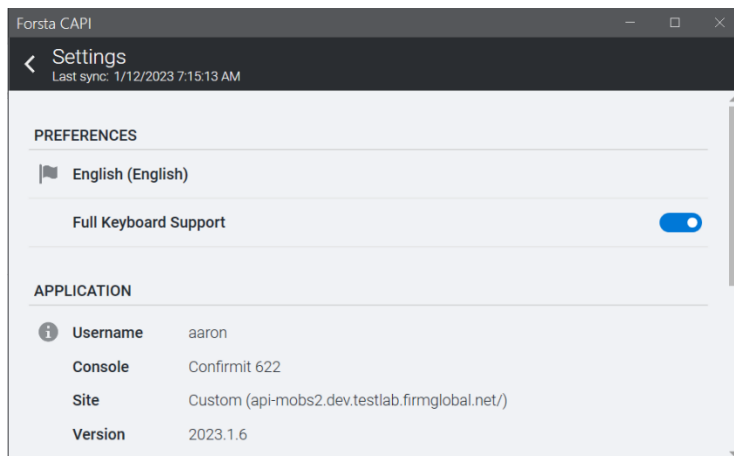
Provides a way for an interviewer to work more efficiently during an interview session by using the device keyboard to navigate the survey for the majority of the interview rather than clicking a mouse or device touchscreen.

Note:

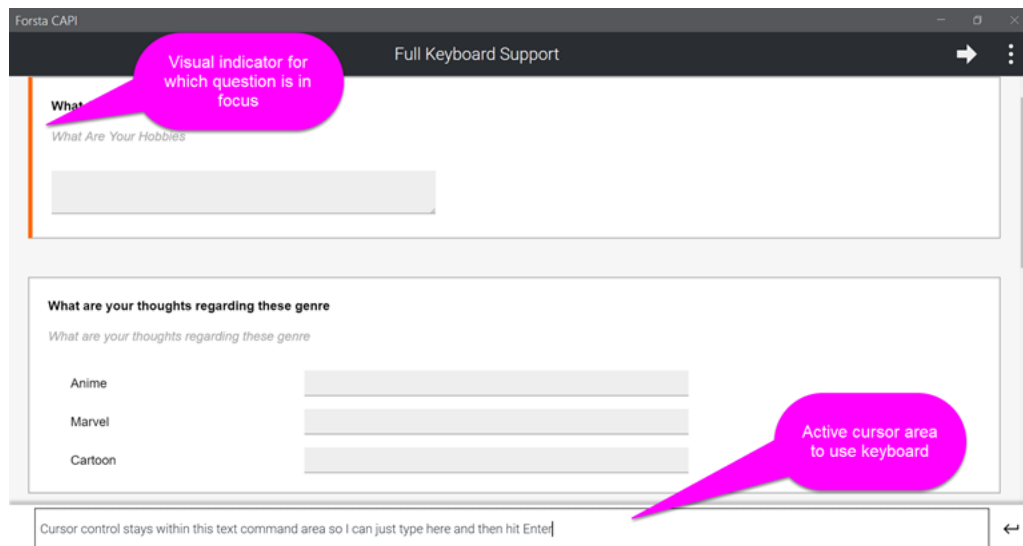
- CAPI App for Windows only
- Requires survey layout Responsive v1 or higher

How it works:

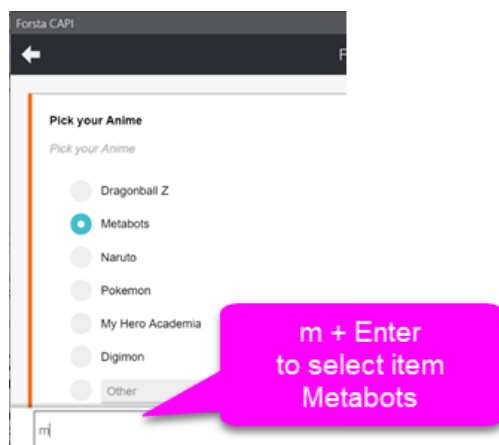
Keyboard shortcuts is controlled per device within the app settings menu:



Once this is enabled, any survey that is opened on the device will contain a special command/text area at the bottom of the screen:



Most questions can be answered directly with keyboard only, the most common example is Single/multiple choice questions. Enter the category code value and Enter. This can be numeric or even text codes. E.g.



Special keyboard sequences supported to assist with navigation:

- **Up, Shift + Tab** - highlights the previous question on the page.
- **Down, Tab** - highlights the next question on the page.
- **Left, Page Up** - goes to previous page (the same occurs if you click the **Previous** button).
- **Right, Page Down** - goes to next page (the same occurs if you click the **Next** button).
- **Home** - highlights the first sub question (if one exists) of the current question.
- **End** - highlights the last sub question (if one exists) of the current question.
- **Ctrl + Home** - highlights the first sub question (if one exists) of the first question on the page.

- **Ctrl + End** - highlights the last sub question (if one exists) of the last question on the page.
- **F2** – focus moves to Text Area or Input textbox of the current question (when current question is Open/Multi question)
- **Esc** – focus moves to keyboard entry text area.
- **Enter** – submits the text currently entered in the keyboard entry text area. Pressing **Enter** when no text submits the question.
- **Shift + Enter** – enter a newline within the keyboard entry text area.