



## Alpha offers the most complete and powerful set of application development tools for building robust offline-capable mobile apps

Most people never think about their Wifi or cell connection, until they don't have one.

For workers in the field, having a spotty or non-existent Internet connection happens surprisingly often. As connected as the world has become, places like hospitals, factories, warehouses, and rural (and even some urban) areas are often internet dead zones. So, any mobile business app needs to factor in what happens when users don't have connectivity.

### Full Functionality Without Signal

This one may seem obvious, but...

All of the features and functions a worker needs to do their job must be available to them in the field, even if they lose signal...  
...or never had signal too begin with.

When signal drops, an application must perform as if nothing happened.



*Alpha Understands these challenges and as a result has put together the most comprehensive portfolio of patented capabilities designed to make building mobile apps that deal with the offline challenge as easy and hassle free as possible!*



### Access to Onboard Assets

Phones and tablets can store lots of helpful assets that are available to worker even when offline.

Some of the many examples include;

- databases
- blueprints
- CAD drawings
- service manuals
- cross-reference charts
- and even how-to videos.



## Smart Signal Detection

As you know, Internet connections can greatly vary. Just because a phone or tablet has an Internet connection doesn't mean that it's a fast connection - or an inexpensive one.

Imagine a worker on a construction site has filled in checklist and taken a bunch of high resolution photos of the state of the project. A smart application can sense if it is one a cell signal versus Wifi, and behave accordingly.

For example, the app can upload just the checklist items so that are available immediately to the crew, while waiting to upload the photos until its connected to Wifi so that the pictures upload faster, and so the user doesn't burn through their cellular data quota.



## Respect for Workers' Phones

In many cases workers bring their own phones to work and use them on the job, also known as BYOD (bring your own device). For reasons of security and privacy a worker's personal data and work data need to be kept strictly separate.

For example, if a worker needs to take a photo to fill out a report, their work photos should be kept separate from the phone's camera roll, where the worker may have personal pictures. And because phones have limited storage capacity - files should automatically be deleted from the device as soon as they are safely uploaded to the server when a connection becomes available.



## Intelligent Conflict Resolution

What happens if two workers change the same data at the same time?

This can happen often when a crew (or multiple crews) are assigned to the same project. With **Intelligent Conflict Resolution** you have some flexibility in how to handle these situations. You can decide based on who submitted data first or last, you can decide based on the rank of the user (such as a foreman vs a line worker), or they system can alert the user to the conflict and ask they user how they would like to handle it.



With Alpha - your applications will pass these offline tests with flying colors. For documentation or to speak with a solutions architect, contact us at: [tfservice@alphasoftware.com](mailto:tfservice@alphasoftware.com).