

Less Apps, More Chats

Secure Messaging Interactives

(a.k.a. chatbots you can trust)

With the great power
to build native mobile apps,
comes great responsibility

All the things to consider...

Have you made a good user experience that matches mainstream apps?

Is it responsive, and impact battery life and memory usage appropriately?

Does it work with all versions of Android devices your users have?

Is it available in the all languages and localizations necessary?

Threats to keep you up at night...

Is it secure? Did you implement encryption properly? Was it audited?

Have you kept up to date with all the possible vulnerabilities & exploits?

Is the data safe?

Are your users physically at risk for having your app installed?

Is the network tracking or blocking access for your users to your server?

Are you ready for attacks?

Are you prepared to continue to worry
about these things (and fix them)
for the 24 month or longer
lifespan of your app?

For most, the answer is “No”.

For others, “we’ll try our best!”

Instead, what if you could just focus on what you know best, the unique content and useful services, and reduce risk for your user communities ?

This is what can be done with
Secure Messaging Interactives

Some might say that
Secure Messaging Interactives
is just a fancy way of saying “chatbots”

They aren't wrong, but we think there is
so much more possible than idle banter

Secure Messaging Interactives

build upon existing privacy-focused apps
and protocols like Signal, ChatSecure &
others that are trusted quantities with
millions of users

What can Secure Messaging Interactives do?

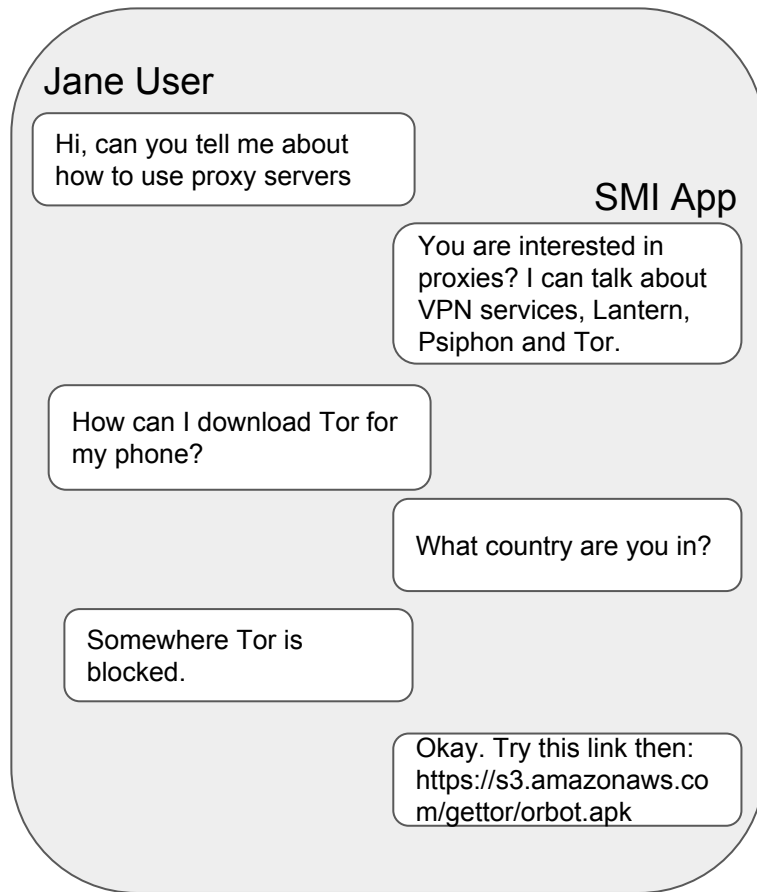
- Send broadcast text and multimedia message alerts to opt-in subscribers
- Accept secure submission of mobile multimedia for humanitarian reporting, election monitoring and whistleblowing
- Support geolocation check-in, panic message and callback support for high risk situations
- Provide help desk, training and knowledge base support responses
- Support mixture of scripted, static and dynamic / human communications
- Enable multi-step querying and survey capabilities for data gathering, other advanced flows

Help Desk

A user can send a message to a specific number or user account, and ask for information on a kind of tool.

A SMI app built to look for certain keywords can respond with questions to guide them towards what they might want to learn about.

The user can ask for both explanations, but also links to download software. SMI can clarify their location, and trigger special logic based on their response.

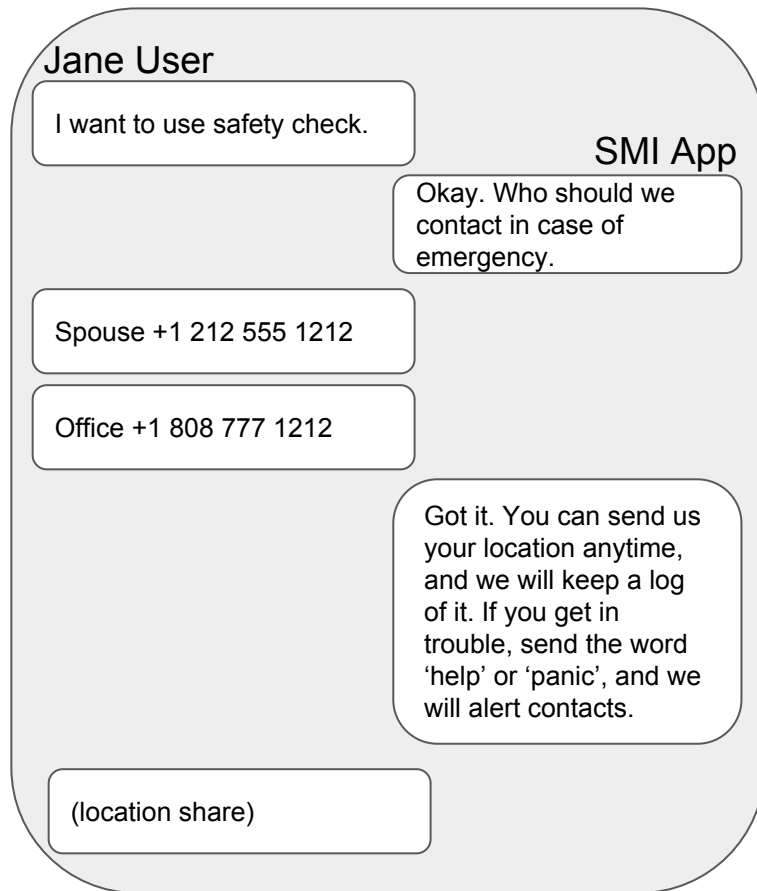


Safety Check

This is a simple SMI app where the user can configure a set of stored “in case of emergency” contacts.

They can then send regular location check-ins to the app to keep a log of their movement. If there is an emergency, they can send a ‘help’ or ‘panic’ keyword, and the app will alert their contacts with information about their recent locations.

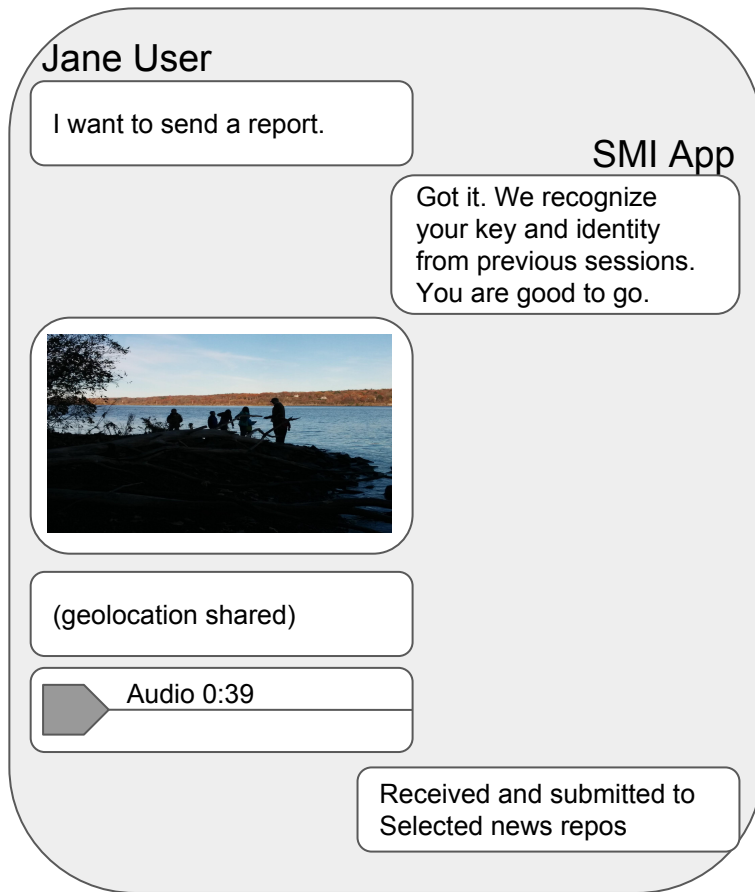
The app could also support a text/callback logic to check if they are okay after a certain period of time, such as with a border crossing situation.



Incident Reports

Apps like Signal and ChatSecure support rich media sharing, including secure photos and voice messaging, as well as geolocation sharing. SMI apps can support receiving this data and using it as part of their app logic, including sharing to other upstream servers and contacts.

In this case, media that would normally have to be uploaded to a web server in multiple uploads, can be shared in a secure chat, queued for when a connection is available, and sent without the user having to wait or worry about transmission.



Secure Messaging Interactives

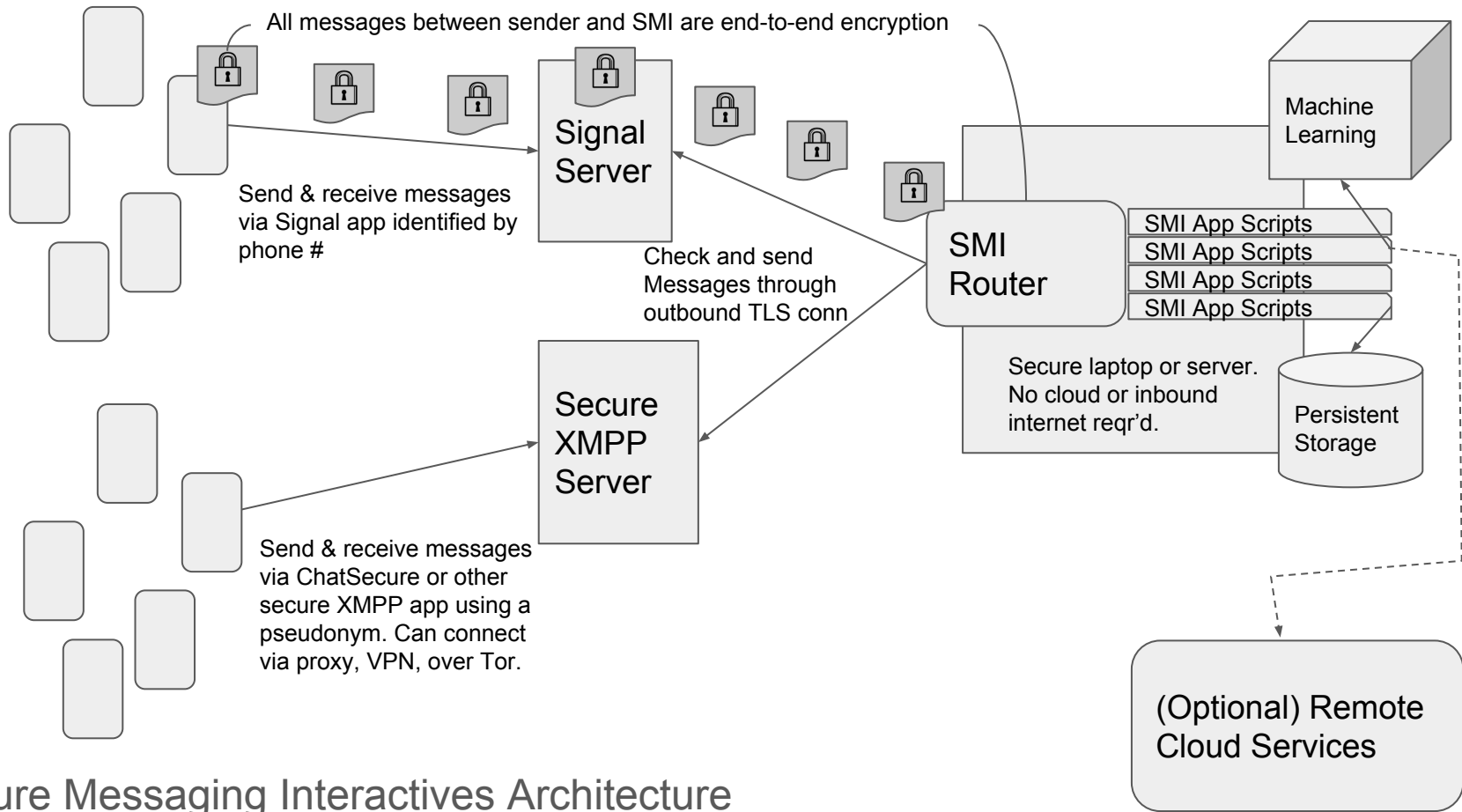
offer app functionality through
conversational text, voice messaging,
photo sharing, geolocation and more

Secure Messaging Interactives

are fully private and secured thanks to the encryption, authentication and strong identity provides by apps like Signal, ChatSecure and others

Secure Messaging Interactives

protect your users and community by
avoiding specialized apps,
protocols and training



Secure Messaging Interactives Architecture

SMI Apps are Easy

Our router and app engine is currently implemented in Java and NodeJS and offers support for custom language logic, as well as conversational platforms like Rivescript.

RiveScript exposes a simple plain text scripting language that's easy to learn and begin writing in quickly. It has a handful of simple rules that can be combined in powerful ways to build an impressive chatbot personality.

SMI can also support local machine learning options, or integrated with trusted remote cloud services for more advanced features, access to remote data and more.

```
// RIVESCRIPT SAMPLE SCRIPTS
+ (what is my name|who am i|do you know my name|do you know who i
am){weight=10}
- Your name is <get name>.
- You told me your name is <get name>.
- Aren't you <get name>?

// Tests the JAVA native logic integration
! local concat = space

+ reverse *{weight=2}
- Ok: <call>javatest <star></call>

+ java test
* <get java> <> undefined => Last time you used "reverse ____", I set
^ the "java" user variable to the following: <get java>.
- Say something like "reverse hello world" and then say "java test" again.
```

Secure Messaging Interactives

A new offering by Guardian Project

coming soon to a secure messaging app you likely already have installed