### Mobile & Cloud Technology: Doing More With Less

Jeremiah Church C3Backflow

#### Background







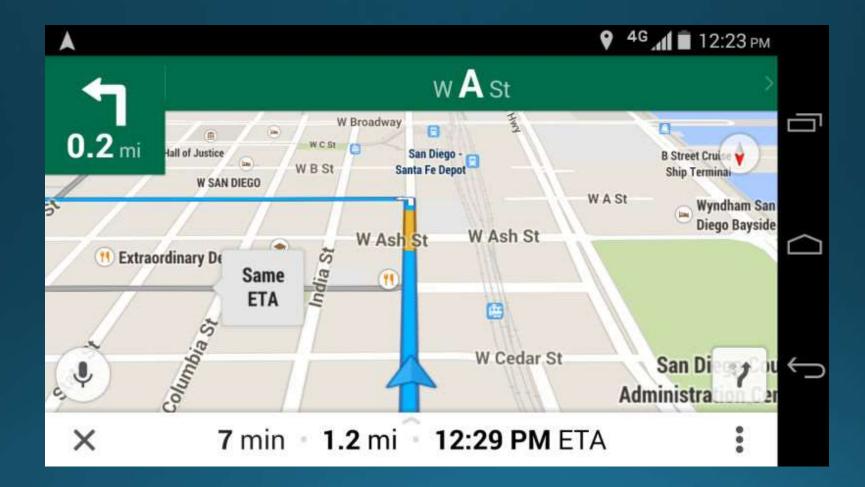
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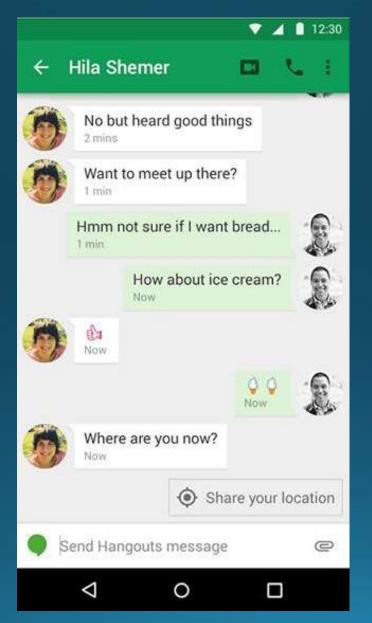
# Mobile & Cloud Benefits & Drawbacks Making the Switch



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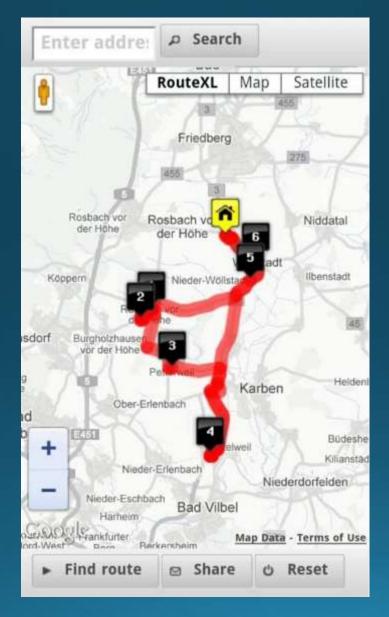


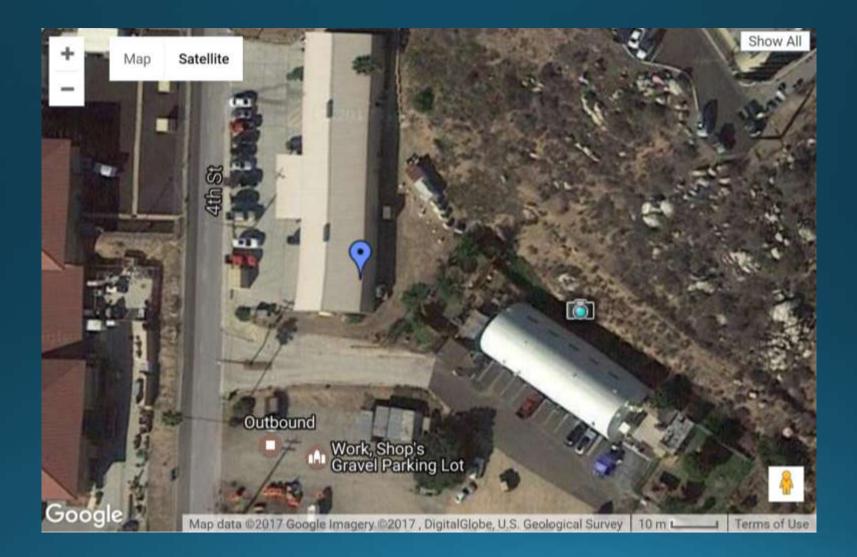
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#### **Benefits**

- Already in your pocket
- Your employees are already comfortable with it
- Information where you are
- No limitations on how much you can carry

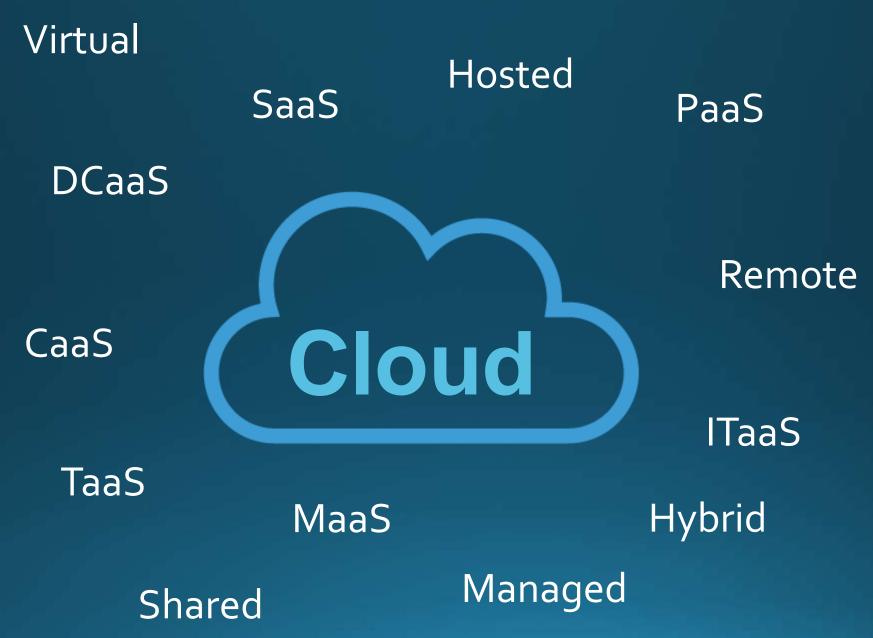
#### Drawbacks

- Cell coverage can be spotty
- Devices & data can be expensive
- Increased security exposure

#### **Questions To Ask**

- Will this benefit my business?
- Do I need to buy new devices to use this solution?
- Will my people use it?
- Who will support us when we have problems?
- Battery life in the field?
- How well do the devices standup to the environment?





#### Service

Used to be service provider or managed service provider (MSP)

Now the term is X as a Service

Done correctly you get the expertise & economies of scale for much less than you would spend internally

#### **Common Tools - Files**





Simple, Secure Sharing from Anywhere.





#### **Common Tools - Productivity**





#### **Common Tools - Finance**







OuickBooks. Square

stripe

#### **Common Tools - Notes**





#### **Common Tools - Phone**





## • Grasshopper

The Entrepreneur's Phone System



Workflow management Backflow testing Surveys Customer notifications Annual compliance reporting

Form management Storage

Integration with existing systems

Compliance with existing requirements Data management Hosting requirements Security / access control

#### **Benefits**

- Known costs upfront
- Dramatically lower costs overall
- Increased security
- Better availability
- Constantly improving

#### Drawbacks

• Out of sight out of mind

- Lack of control
- Lack of customization

#### **Questions To Ask**

Do I own the exclusive rights to any data I provide to your system? If it isn't exclusive what rights do I have to my data?

What is your uptime guarantee? What's your average uptime? Do you have any maintenance windows?

How do I get my data back if I want to leave?

Contract Terms – lock-in period, etc

Support – how fast will you respond to my issue? How fast will you fix it? Biz hours only? What timezone?

Data safety/backups – how often?

### Switch

## Making



The

Staying in compliance – know your regs!

Security & fraud protection

- Use the mobile you have to ensure the tester is in the field at that device!
- Historical analysis of results & tester data submission

Use the right forms – minimal or no changes from established

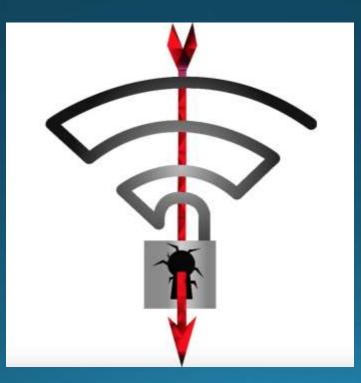
Training & Documentation

Data backup & retention

• 5 years for testers & purveyors in WA

#### Security





In Texas this is nicely laid out by the TCEQ in RG-478

- 1. What are the **deviations from the official TCEQ forms**?
- 2. What precautions have you taken to **prevent data loss**?
- 3. What precautions have you taken to **ensure data integrity** (fraud prevention, consistency with USC test procedures)?
- 4. How will the software comply with **record-retention requirements** (BPAT retention: three years; CSI retention: 10 years or indefinitely)?
- 5. Will the PWS be able to produce a hard copy of the records when requested during a comprehensive compliance inspection by the TCEQ regional investigators?
- 6. Will training be available to the PWS to ensure that its staff knows enough to be able to supply required information during a comprehensive compliance inspection?
- 7. Will the software identify when values that are out of acceptable parameters are entered?
- 8. Will the software alert the tester that a backflow preventer has failed a test?
- 9. Will the software record that a backflow preventer failed a test, was repaired, and passed the test after repair?
- 10. What precautions are taken when the tester has successfully tested a backflow preventer and, for some reason, the software is not available (malfunction, user error, etc.)?
- 11. Where an unscrupulous person is misusing the software, can it confirm that the tester actually went on-site to conduct the test?

#### **Hidden Costs**

- Training
- System Setup
- Lost Efficiency
- Research, Negotiation, & Decision Time

#### **Questions To Ask**

- What's included in the migration/onboarding for your product?
- What data will be lost/not migrated?
- What interfaces will be substantially different than my current?
- How much training/onboarding time is needed for a group my size?
- How much training do you include?
- Is there any customizations we will need not included in your standard pricing?
- Will this synchronize with my existing systems? How often will it sync? What is the delay?

What datacenter compliance requirements do you meet? SAS 70, ISO 27001, FedRAMP

#### Review

Mobile: giving you & your staff the information they need wherever you are

Cloud: specialized expertise & systems without the need for headcount

Making the switch can be tough but its worth it

Tester's - If you aren't doing this your competition is Less efficient means you're losing your customers Harder to sell without system & paper trail

Utilities - there's probably pressure from your finance folks to show you're as efficient as possible

#### Questions?

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