

# Putting Your PSAP in the Cloud

APCO Emerging Technology Forum

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WHY SHOULD YOUR PSAP BE IN THE CLOUD?

First responders need  
the best technology available



“CAD being unavailable has perhaps the most serious consequences of any IT failure in law enforcement.”

Paul Wormeli, IJIS Institute

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## Multnomah County's new 9-1-1 computer dispatch system puts officers and public at risk, police say

By Maxine Bernstein | The Ore  
Email the author | Follow on Tv  
on May 18, 2011 at 10:00 PM, i

When Multnomah County pro  
visited an apartment in Gresh  
neighborhood and emergency

### Operators Logged Calls From Outside City of Portland Paper As 911 Problems Persisted

By LaMonica Peters  
Wednesday, March 30, 2016 at 11:25 PM EDT

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POLITICS ENVIRONMENT FOOD MEDIA CRIME & JUSTICE PHOTOS INVESTIGATIONS MAGAZINE

## 8 Cities Where 911 Systems Recently Failed

Emergency dispatch problems: Coming to a city near you?

DANA LIEBELSON AUG. 5, 2013 6:00 AM

### Glitch Takes Down Oakland Police Radio System, Computer Dispatch

May 6, 2016 8:33 AM By Betty Yu

Filed Under: Communications, Oakland, Oakland Police Department, radio

Phil's 1st Pix/Flickr

Oakland Police Communications Go I

KPIX 5 Studio Oakland

POLICE RADIO PROBLEMS 11:06 PM KPIX 5

LISTEN LIVE



## AGILE

Seamless feature upgrades and ready to integrate with other web-based NG9-1-1 tech.

## DEVICE AGNOSTIC

Deploy one web-based system and eliminate the need for separate “mobile” procurements.

## SCALABLE

Easier and quicker to implement and upgrade across multi-agency environments.

## AVAILABLE

Keep your systems running on a strong Internet connection during disasters or when hardware fails.

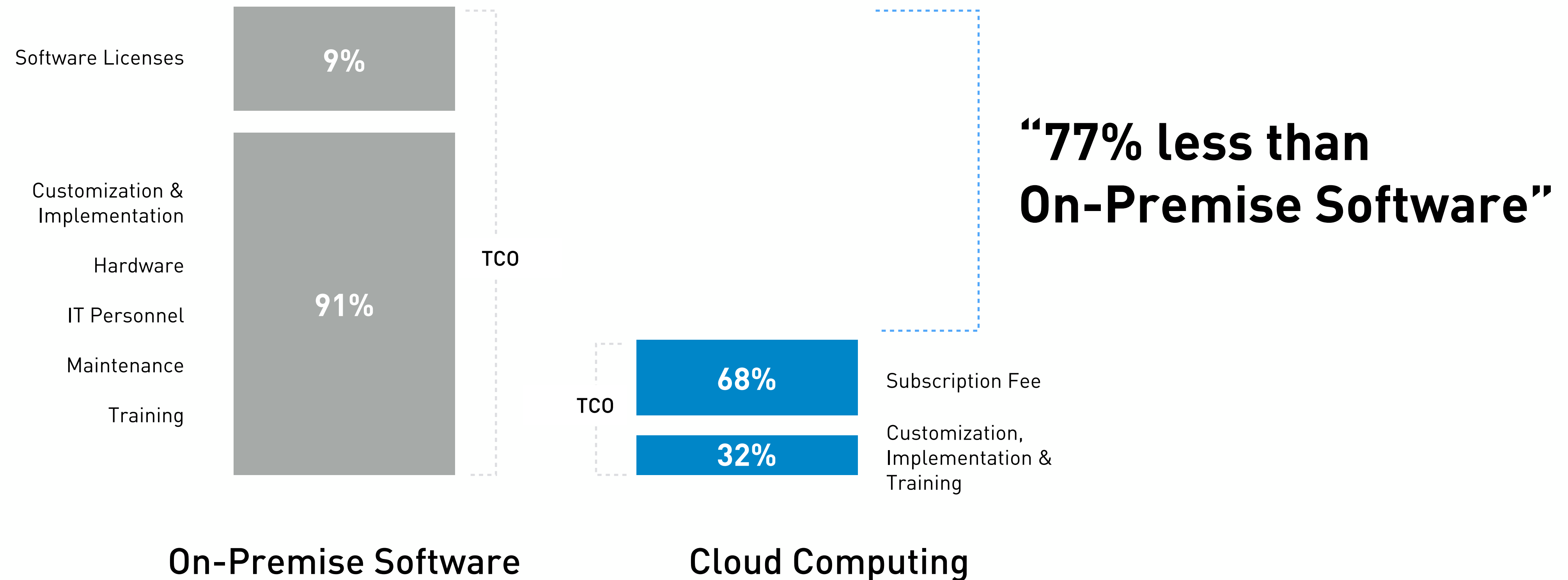
## SECURE

FBI CJIS compliant and less prone to local ransomware attacks.

CLOUD VS. ON-PREMISE IMPLEMENTATION?

It's all about the servers

# Cloud Software Eliminates the Cost & Maintenance Associated with On-Premise Implementation

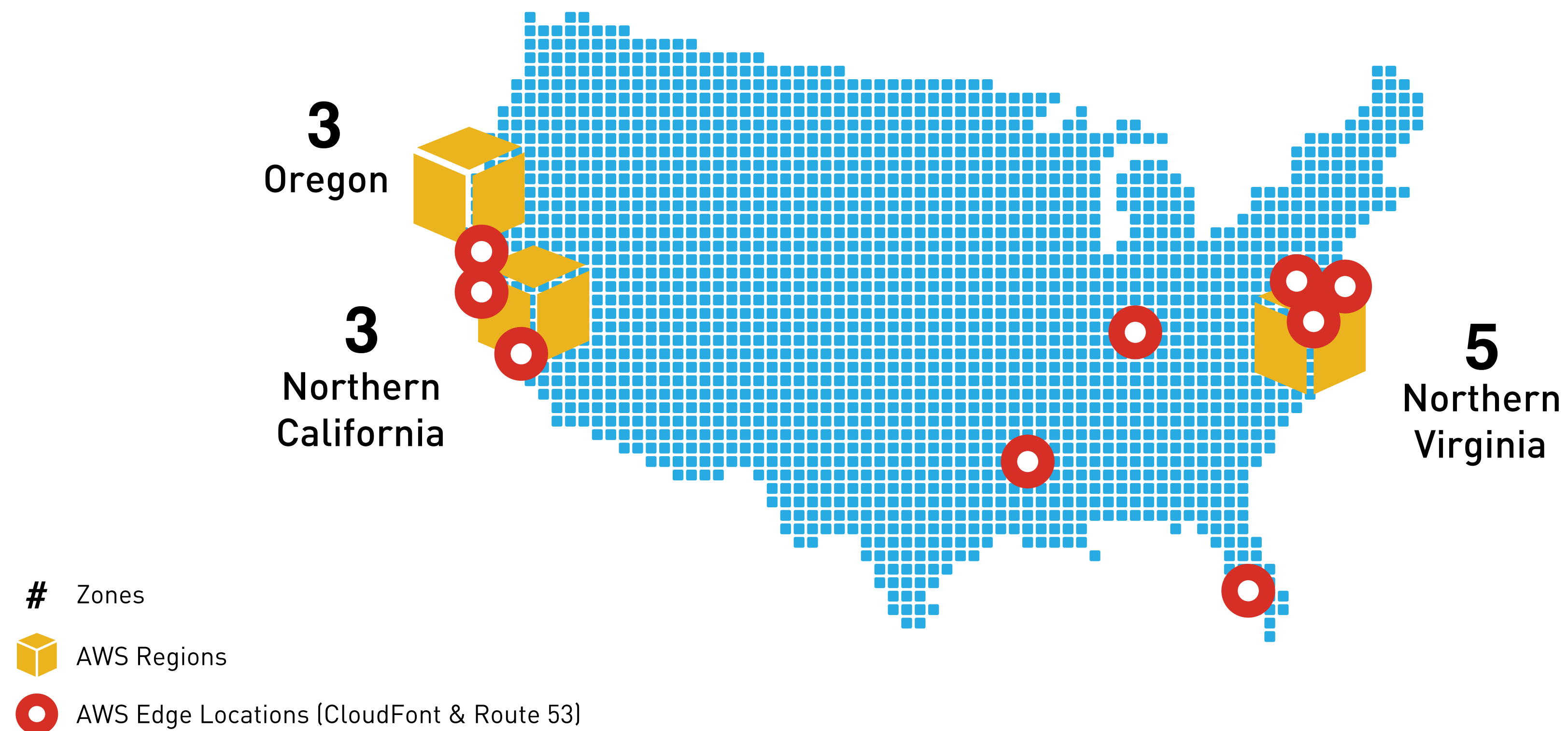


Source: Yankee Group DecisionNote Technology Analysis



# But the Servers Don't Disappear...

National Amazon Web Services Network Architecture



# Differences for Users

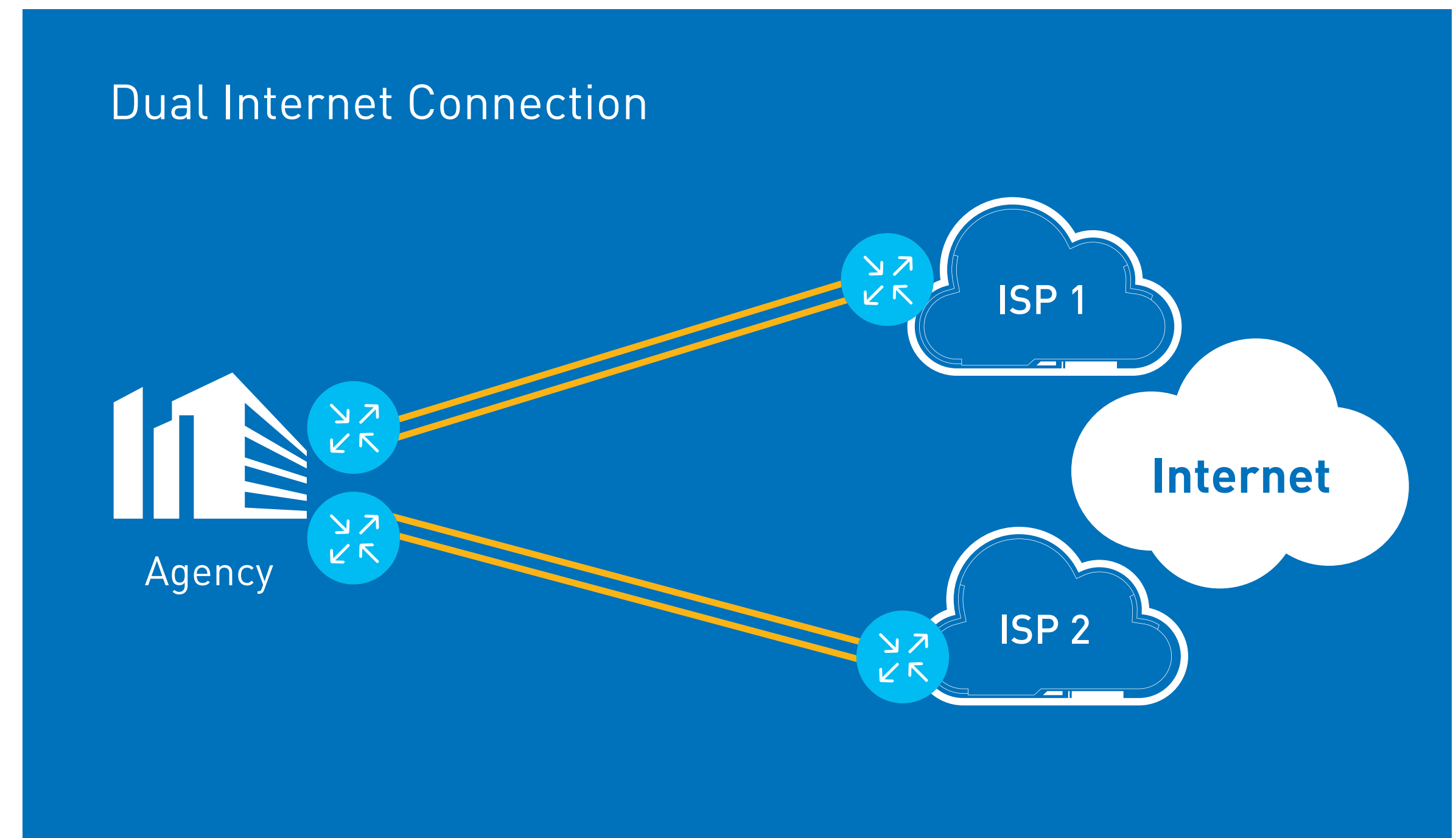
- Not that much!
- Log into a web-based application, either in browser or installed to desktop





# Differences for IT & System Admin

- A strong Internet connection becomes the primary IT responsibility
- Internal change management is required to adapt to more quickly evolving technology



WHERE DO YOU BEGIN?

# Implementation plan tips

# Project Implementation Plan



# But Wait.. Don't Just 'Flip the Switch'

## Pre-Contract Sign

Establish what your agency needs and what your vendor can provide before you get to the Scope of Work.

- Data Migration
- Uptime and Availability (Service Level Agreement)

**Tip:** Allow your vendor to conduct a department assessment to so you can evaluate the implementation plan as much as the product itself.





## Kickoff

### 1 Month

**Tip:** Identify internal working groups that include decision makers and end users alike.



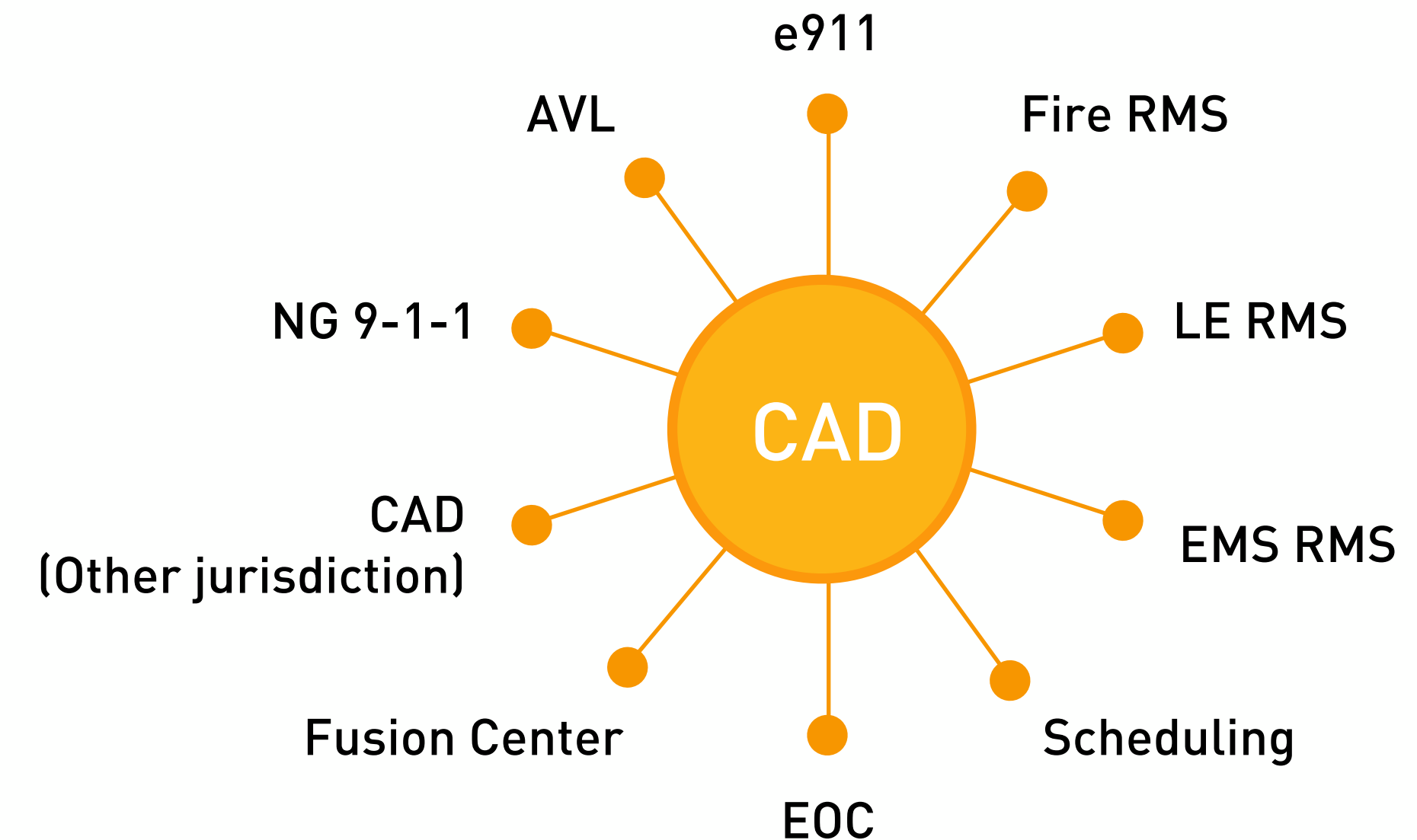




## Phase 2: Technical Scoping

1 Month

**Tip:** Get in the weeds with your vendor! Make sure they understand every policy and workflow.





## Phase 3: Product Development

6-9 Months

**Tip:** Schedule regular check points with your vendor to ensure the project stays on track.



Project  
Kick OffTechnical  
ScopingProduct  
DevelopmentTesting &  
ValidationTraining &  
LaunchSystem  
Go Live!Project Closure &  
Review

## Phase 4: Testing & Validation

1-2 Months

**Tip:** Test every aspect of the implementation and give your vendor a grade before the launch date.



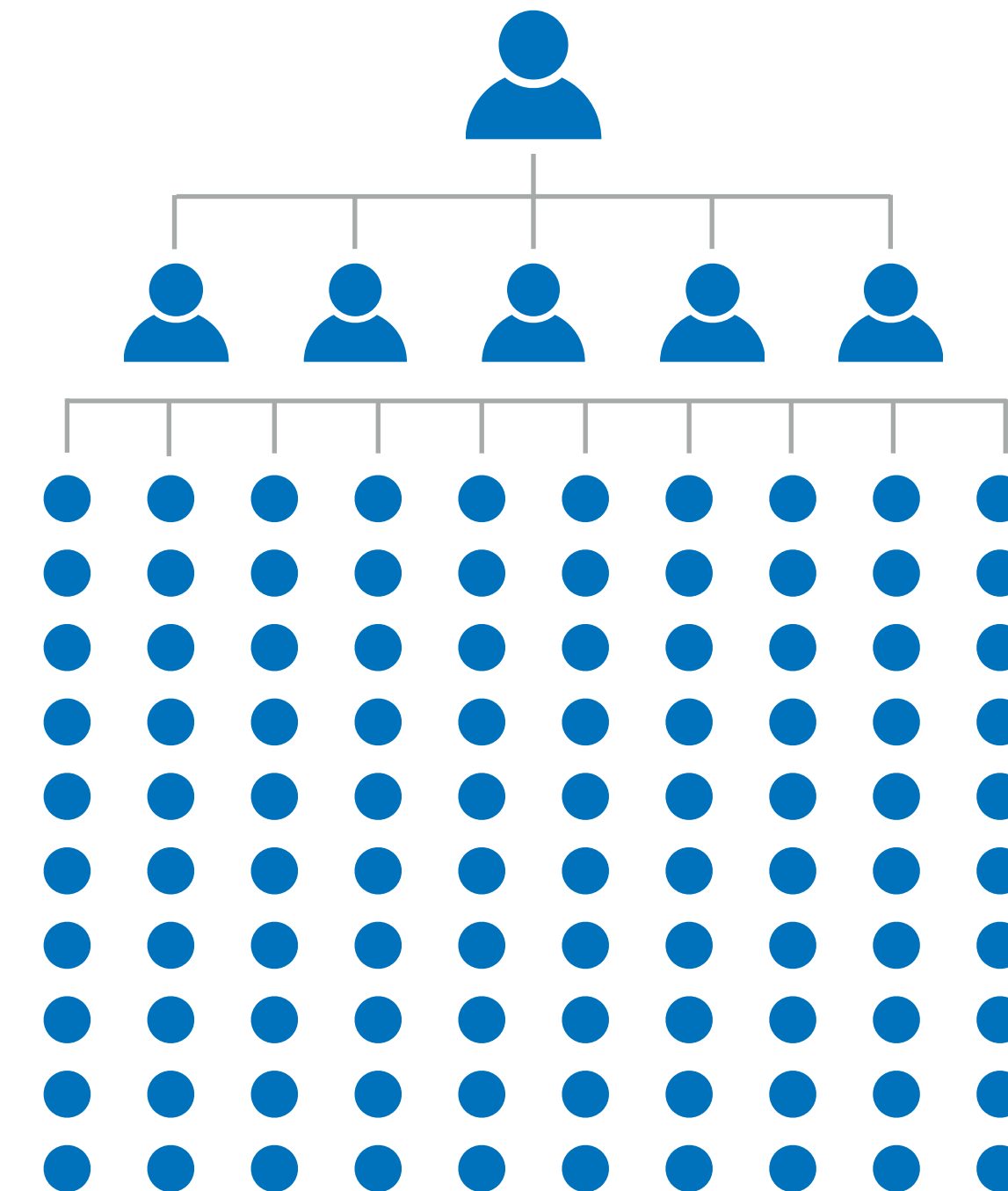
Deadzone Testing at CCPD



## Training & Launch

1 Month

**Tip:** Make sure department policies are ready to support new technology and workflows.

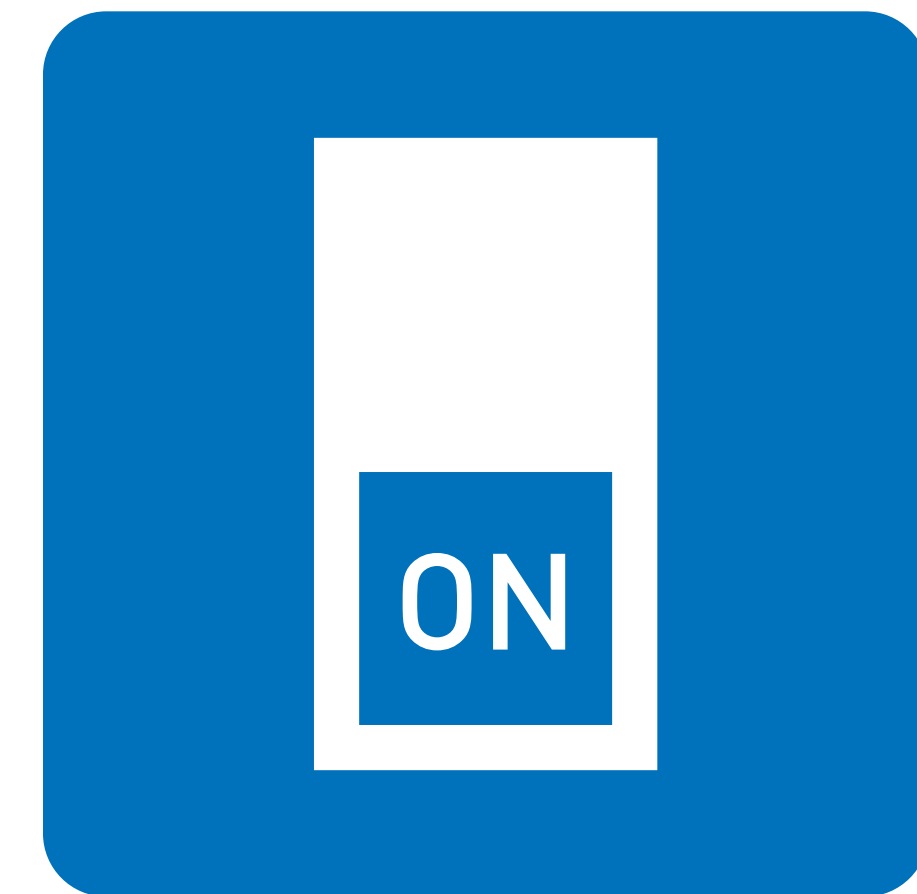




## System Go Live!

1 Week

**Tip:** Amp up vendor on-site support for the first shifts on the new system, just in case!



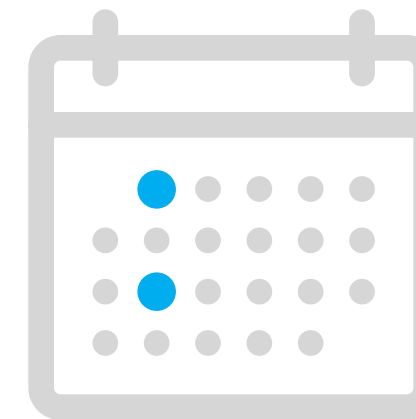




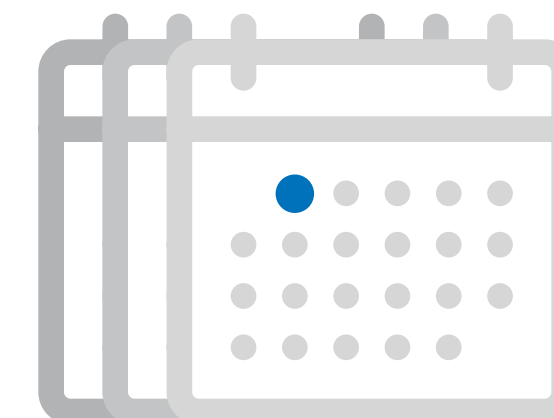
## Project Closure & Review

### 1 Month

**Tip:** Get the most out of your cloud subscription! Collect as much as user feedback as possible and transfer any feature requests to your vendor's release schedule.



**Bi-weekly releases**  
address minor fixes



**Major quarterly upgrades**  
address substantial product enhancements  
based on user feedback & research

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## Ask Your Vendor

1. Do you offer a true, multi-tenant cloud solution?
2. What are the terms of your Service Level Agreement?
3. How do you ensure system uptime? Is it measured and tracked?
4. Does your cloud solution comply with FBI CJIS standards?
5. How do you handle disaster recovery?
6. What backup network connectivity options do you recommend?
7. Does the solution use an open API to interface with other vendors and datasets?
8. How does your solution account for different user groups?

THANK YOU.