

Text to 9-1-1

John Snapp

*Senior Technical Officer
Intrado Inc.*

Judy Flores

*9-1-1 Administrator, Black Hawk
Consolidated Communications Center*

Overview

- Case Study from Black Hawk
- How SMS to 9-1-1 works
- Reliability of 9-1-1 SMS Messages
- Location for 9-1-1 SMS Messages
- Foundation for the Future
- Q&A

Black Hawk County, IA

August 9th, 2009 at 6:36 pm

'911' Via Text Message Launched In Iowa County

in: Breakthrough Thinking, Health & Fitness, Internet, Science & Technology News



4

tweets

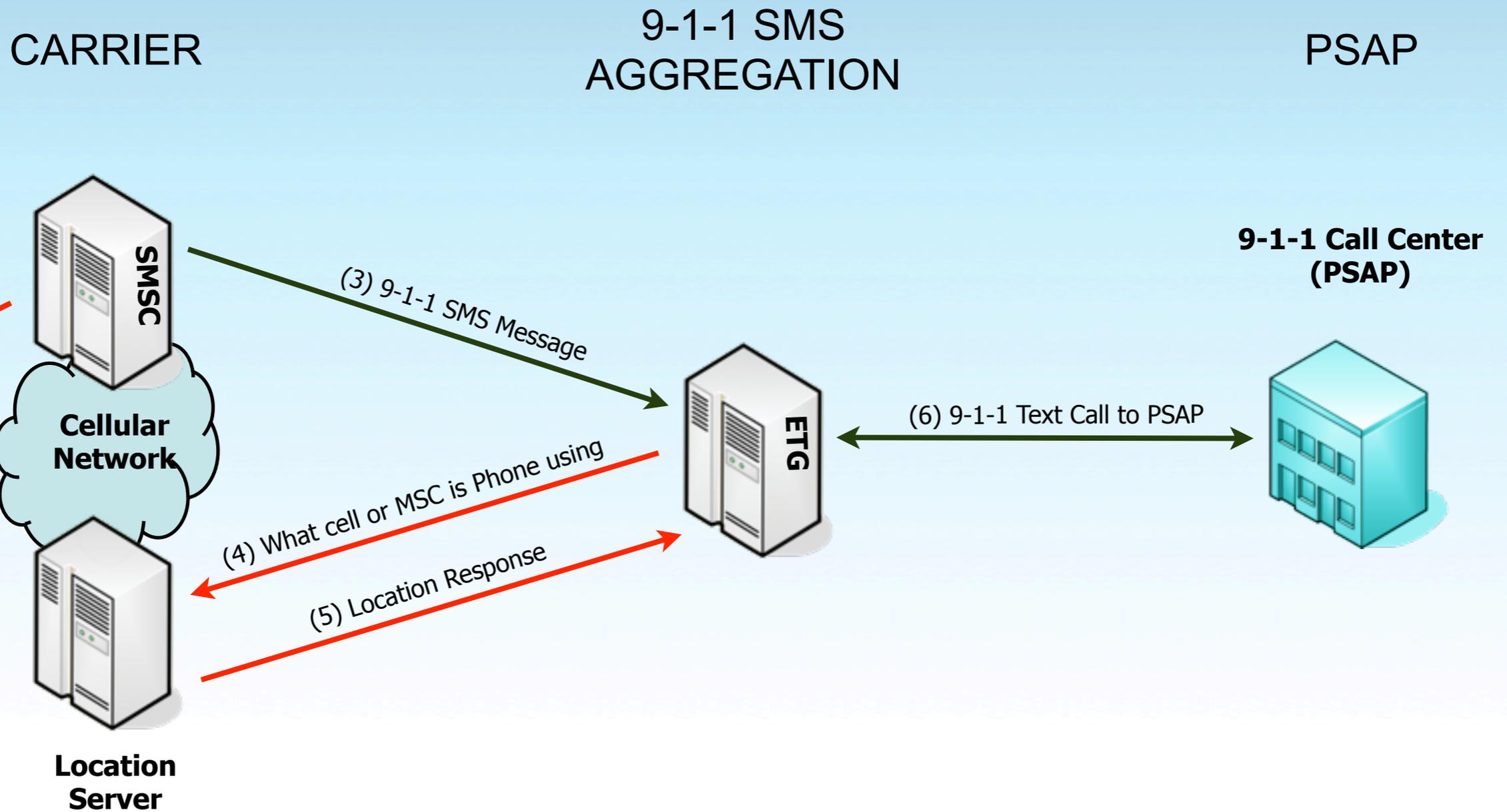
retweet

People are constantly incriminating themselves with poorly timed or damaging [text messages](#), but one Iowa county is finally allowing people to get themselves *out* of trouble with their texting thumbs. According to the AP, the emergency [call center](#) located in the county jail in Waterloo, Iowa is the first in the nation to accept texts directed to 911. The responders can even reply to the emergency messages via computer.

Black Hawk Consolidated Communications Center

- Calls Stats - number/types
- The usefulness
- Ease of integration into the Center
- Fake calls - get them with any type of 911 call
- Locating the caller – currently routed based on caller info. Option when unknown: have them to hang up and call 911 – they don't have to talk, but this will help us receive the lat/long info.
- Not just for Deaf & HOH! Can also be used for people with various disabilities that may affect their ability to speak such as stroke patients, cerebral palsy, MS, etc.

User to PSAP SMS Messages





Compose |

ALI --- **ALX** RTX TTY

TEL #	<input type="text"/>	NAME	<input type="text"/>
ADDRESS	<input type="text"/>	CLASS	<input type="text"/>
		P-ANI	<input type="text"/>
EXACT	<input type="text"/>	MAIN #	<input type="text"/>
X	<input type="text"/>	Y	<input type="text"/>
		ESN	<input type="text"/>
PROVIDER	<input type="text"/>	CONF	<input type="text"/>
		UNCERT	<input type="text"/>
AGENCIES	<input type="text"/>		



Redial

9-1-1	EMER	ADM	STOP	S/U
			PLAY	
			MON EXT	STOP GRT
RINGDN	EXT	TEXT 1 - 5:02		

Release
CONF
X
Transf
HOLD

X

SMS / Text Conversation

I need help at 10659 wolff way

This is an automated response from 9-1-1. To properly route your message, please reply with the nearest CITY or the nearest zip code.

Longmont

What is the emergency? What do you need help with?

My ex BF is here. He is threatening me and won't leave!

What is his name? Does he have any weapons? Has he assaulted you or anyone else?

Jim fox. He owns a gun but not sure if he has it

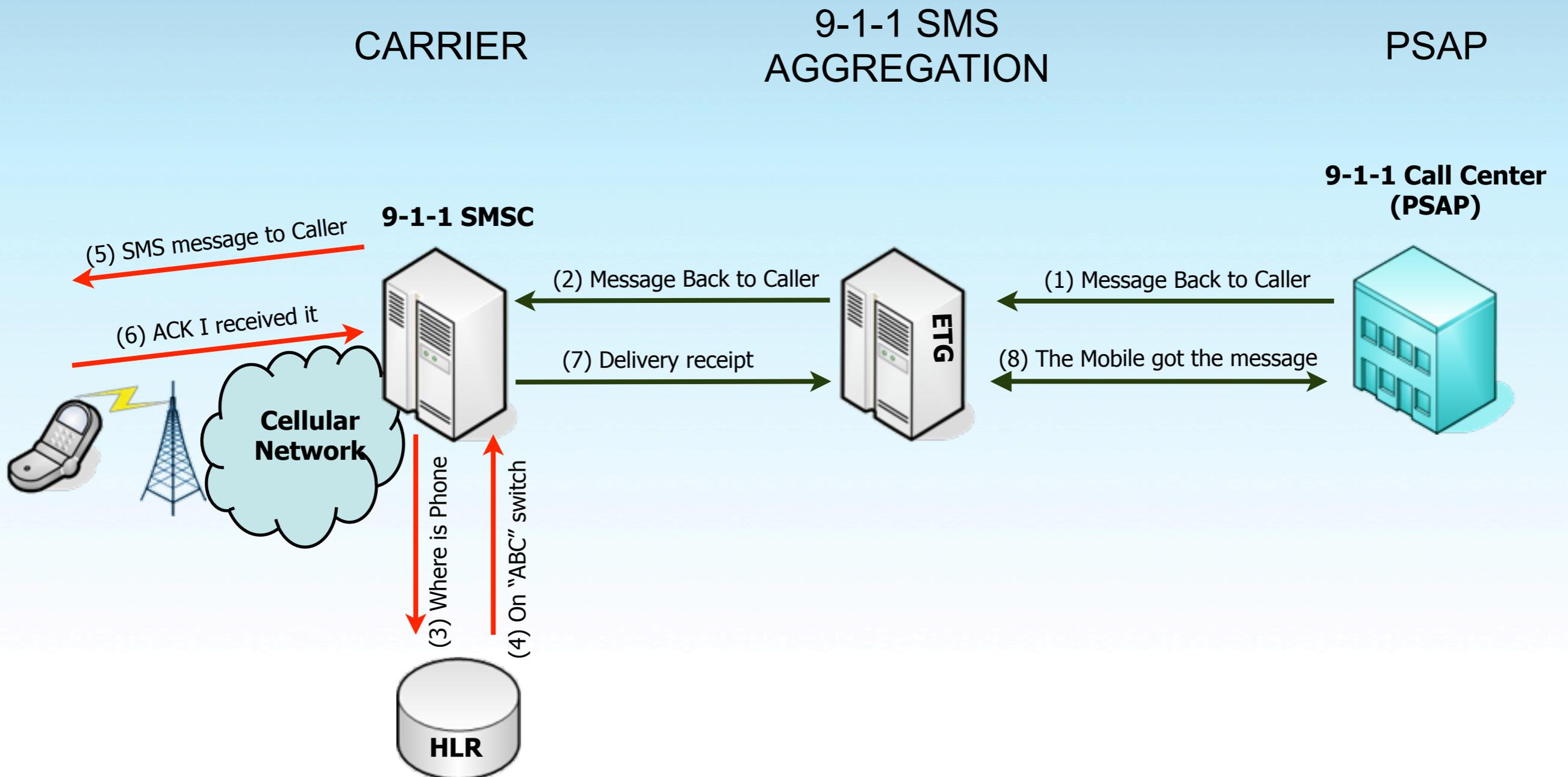
Police are on the way

The officers should be at your door now

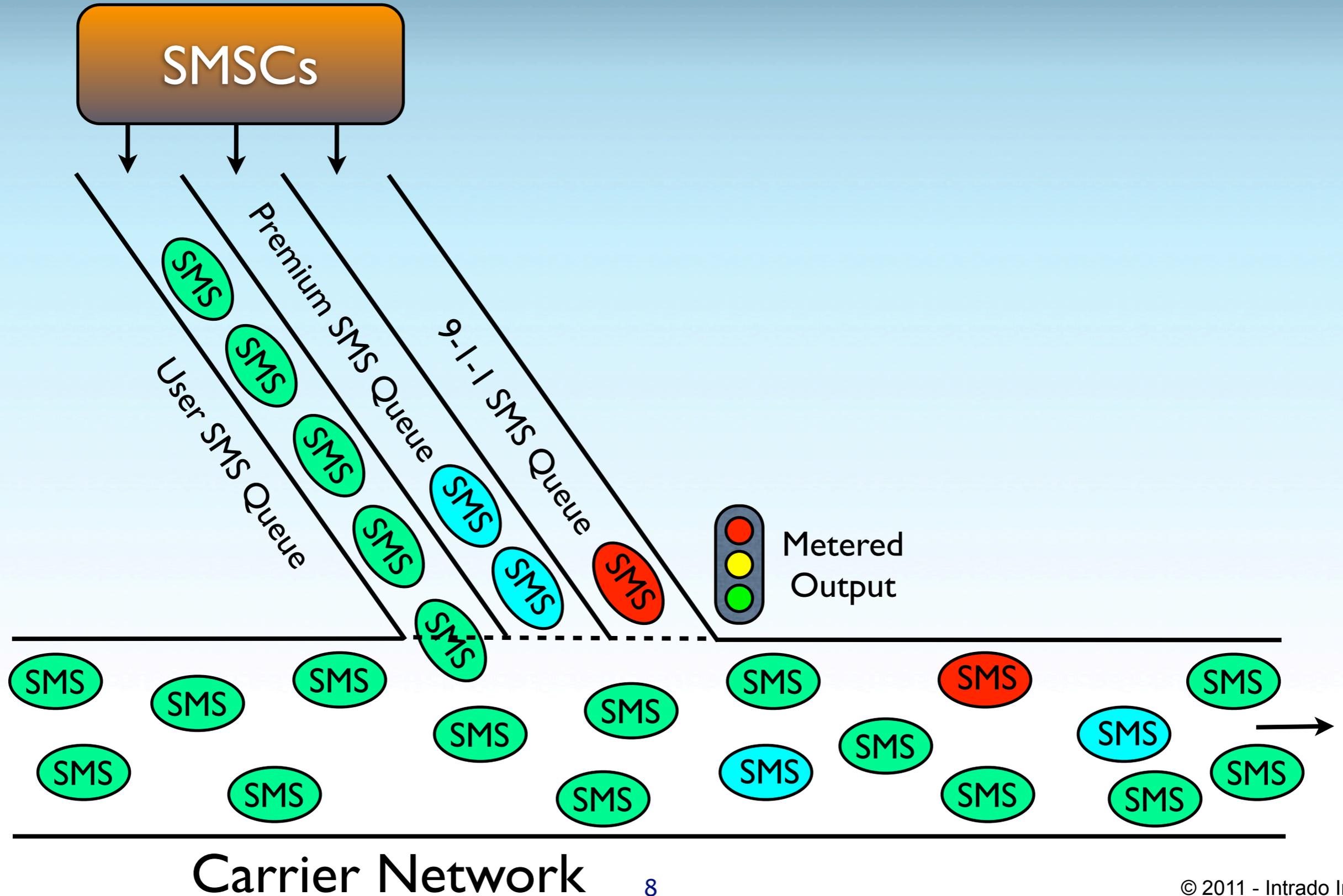
Send

LAW SAPD CENTRAL	FIRE SAFD	EMS AIRLIFE	HOSPITALS UNIVERSITY	TRANSLATOR 4569201
EXTENSIONS RECORDS	UTILITIES CPS ENERGY	TOW AAA		DISPATCH SUPE OFC

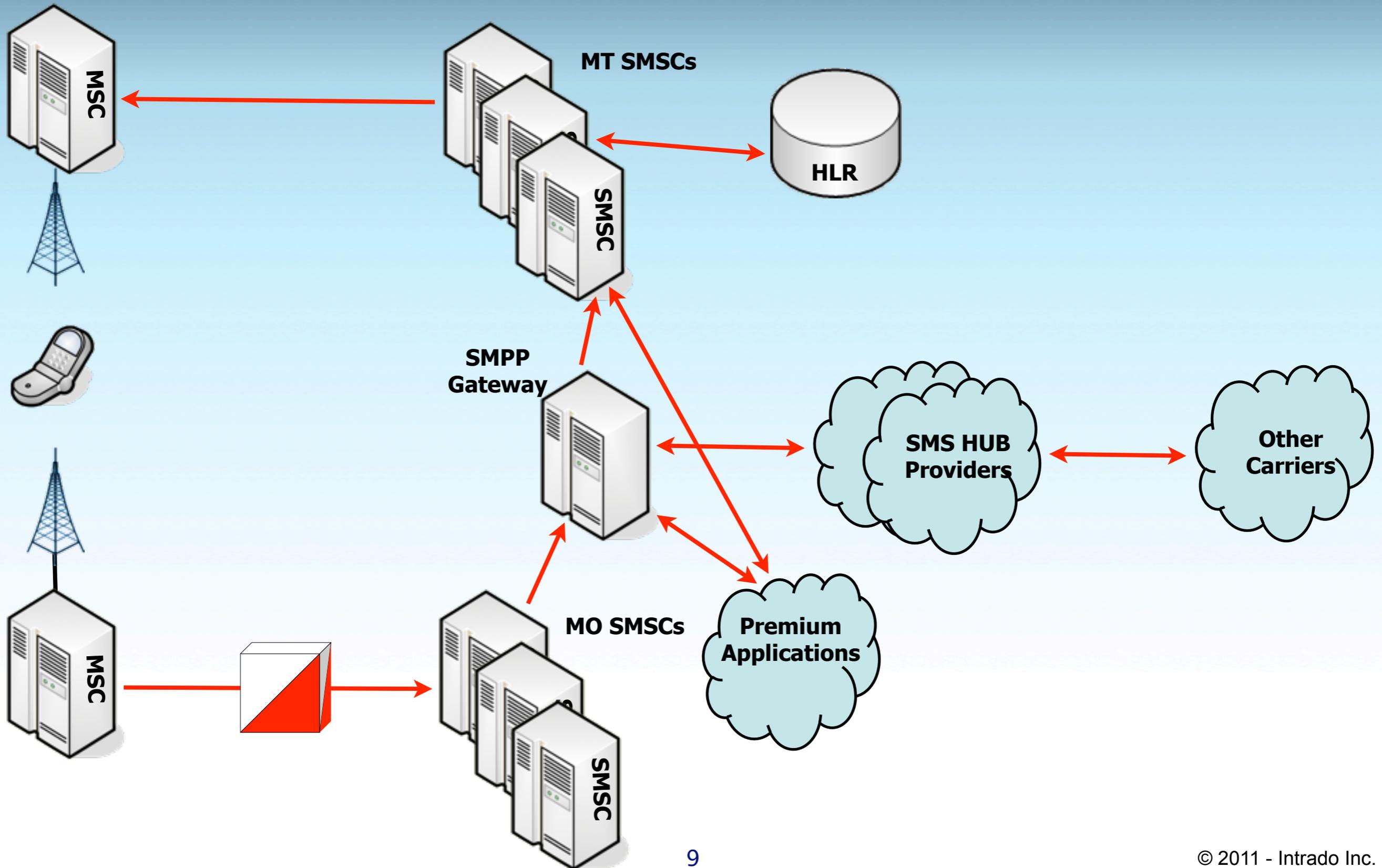
PSAP to User 9-1-1 SMS Messages



Managing Traffic in SMS

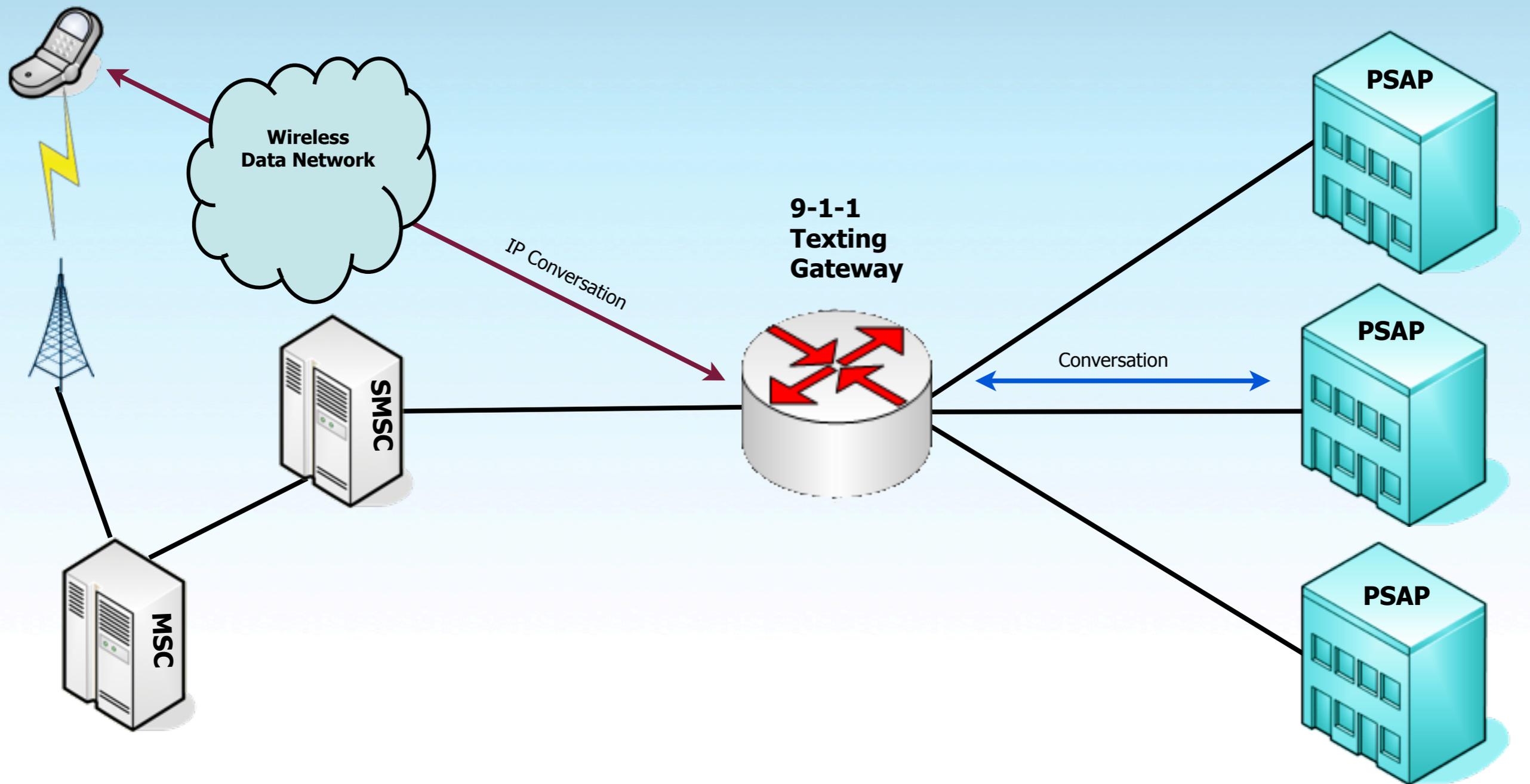


Typical Carrier Network



SMS as a Foundation for the Future

Location Aware
HS Application



SMS to 9-1-1

- Many users are vary familiar with SMS. Over 3.5 Billion Text Messages are sent a day.
- A vast majority of the Cell phones today support SMS Messaging.
- SMS messaging can work in areas and times where voice networks and data networks may not.
- Reliability and minimal delay can be achieved through existing network mechanisms.
- Location of SMS to 9-1-1 callers can be obtained through existing commercial mechanisms.
- SMS to 9-1-1 creates a foundation to support other Text to 9-1-1 solutions such as RTT.

For More Info Contact

John Snapp

*Senior Technical Officer
Intrado Inc.*

303-810-0600

John.Snapp@intrado.com