

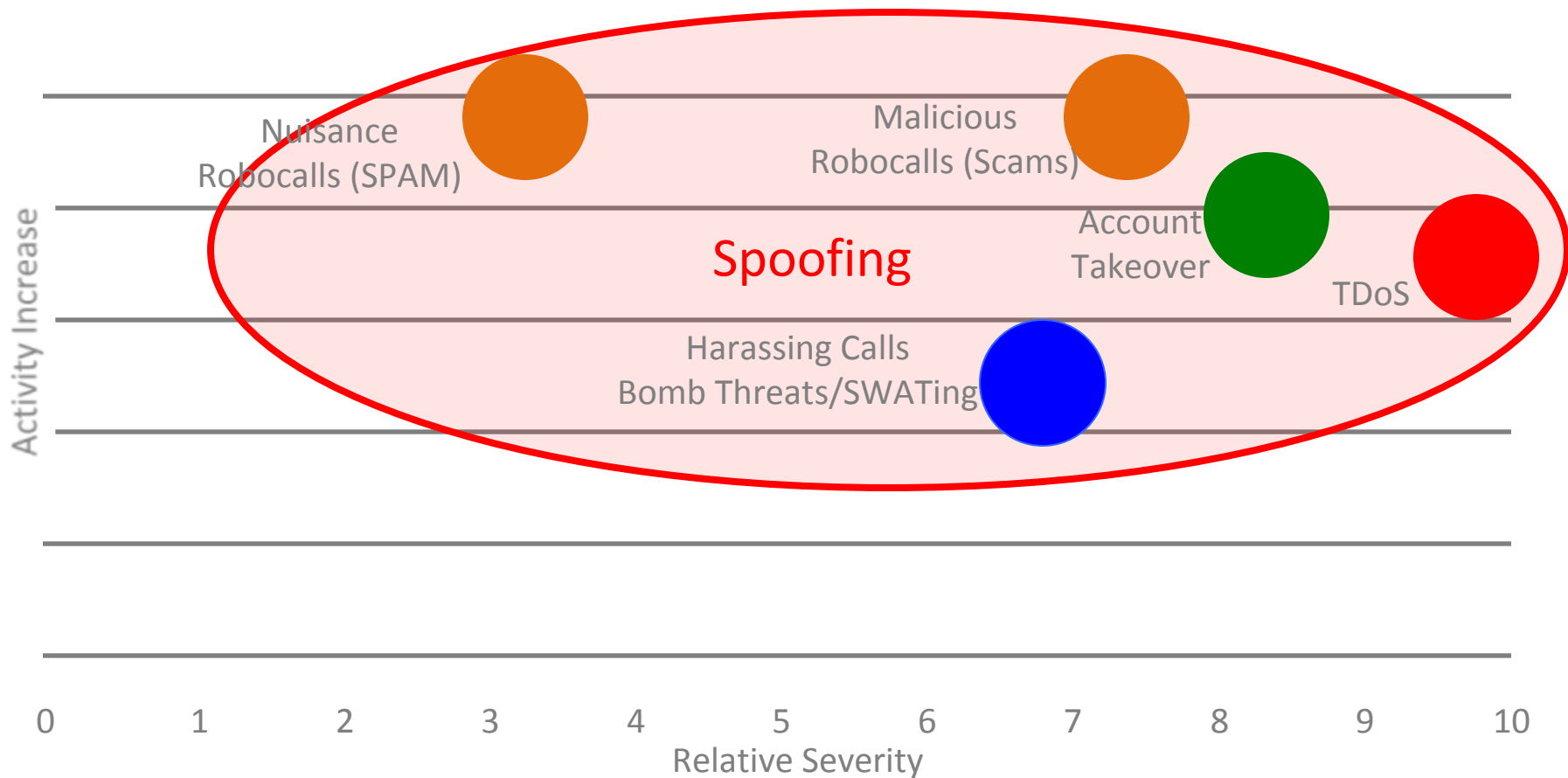
DHS Research and Enterprise/Government Applications of Authentication/Spoofing



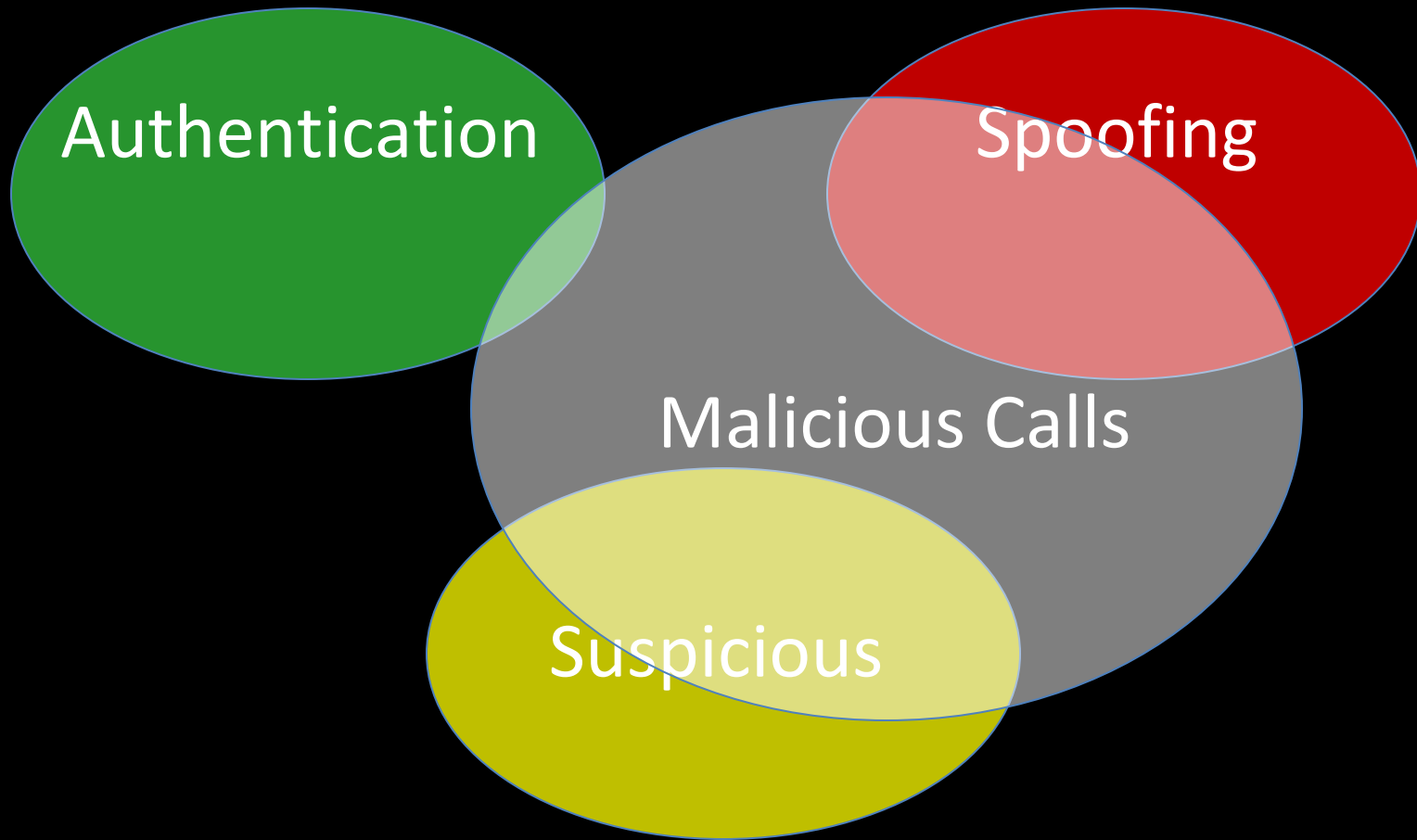
SecureLogix Introduction

- SecureLogix is a small business, located in San Antonio, Texas
- Deliver voice security solutions to enterprises and government
- Focused on issues such as TDoS, robocalls, spoofing, and auth
- Working with DHS S&T CSD:
 - Call authentication and spoofing detection
 - Address call-based attacks in NG 9-1-1

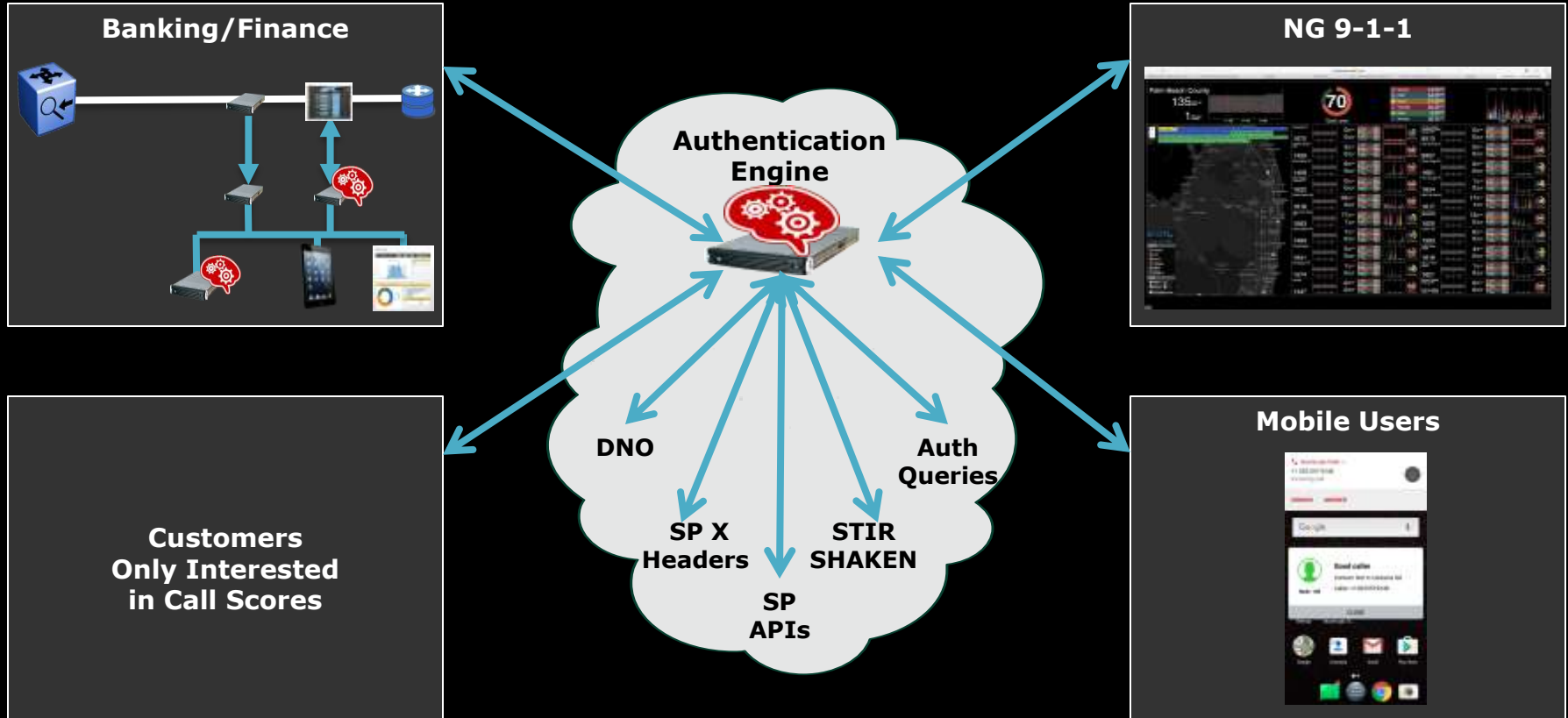
Malicious Inbound Calls



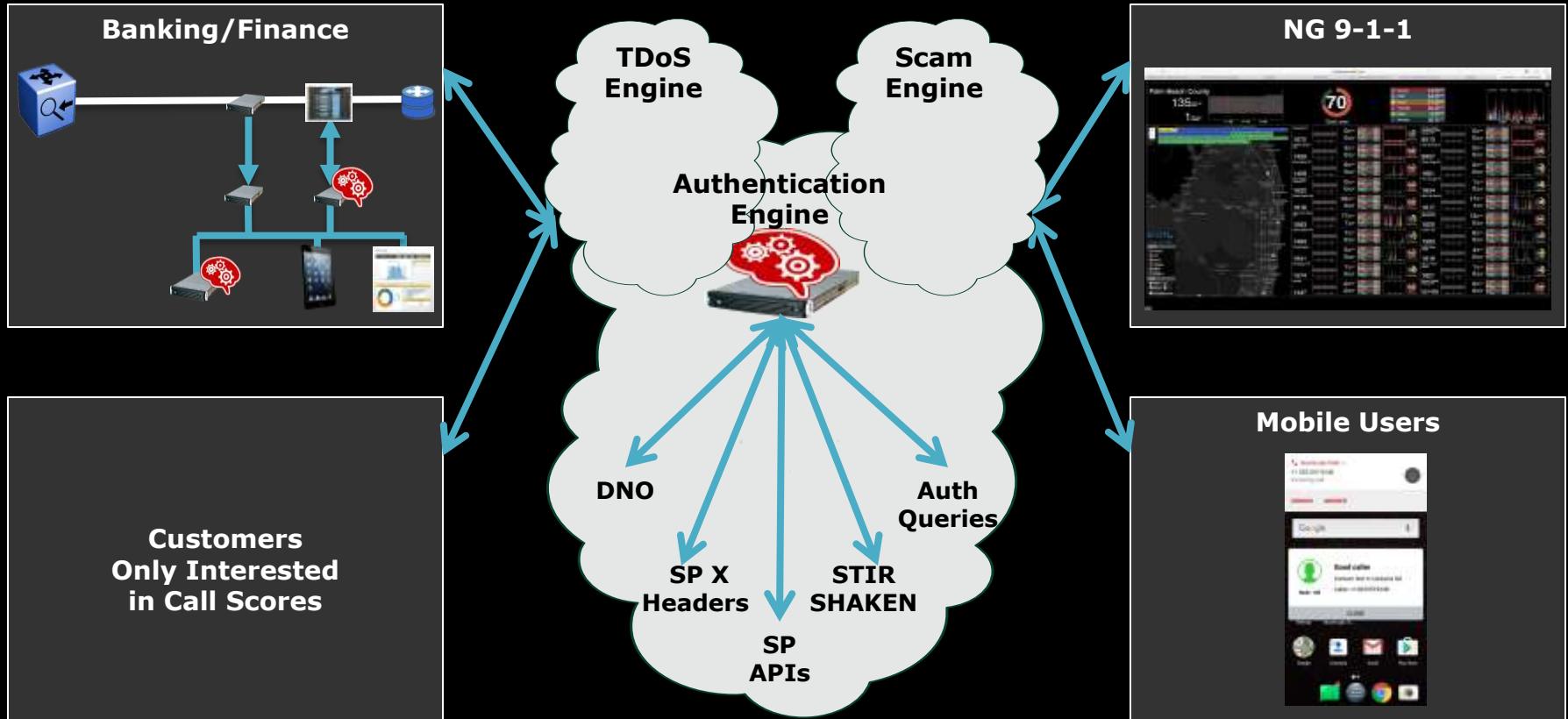
Malicious Inbound Calls



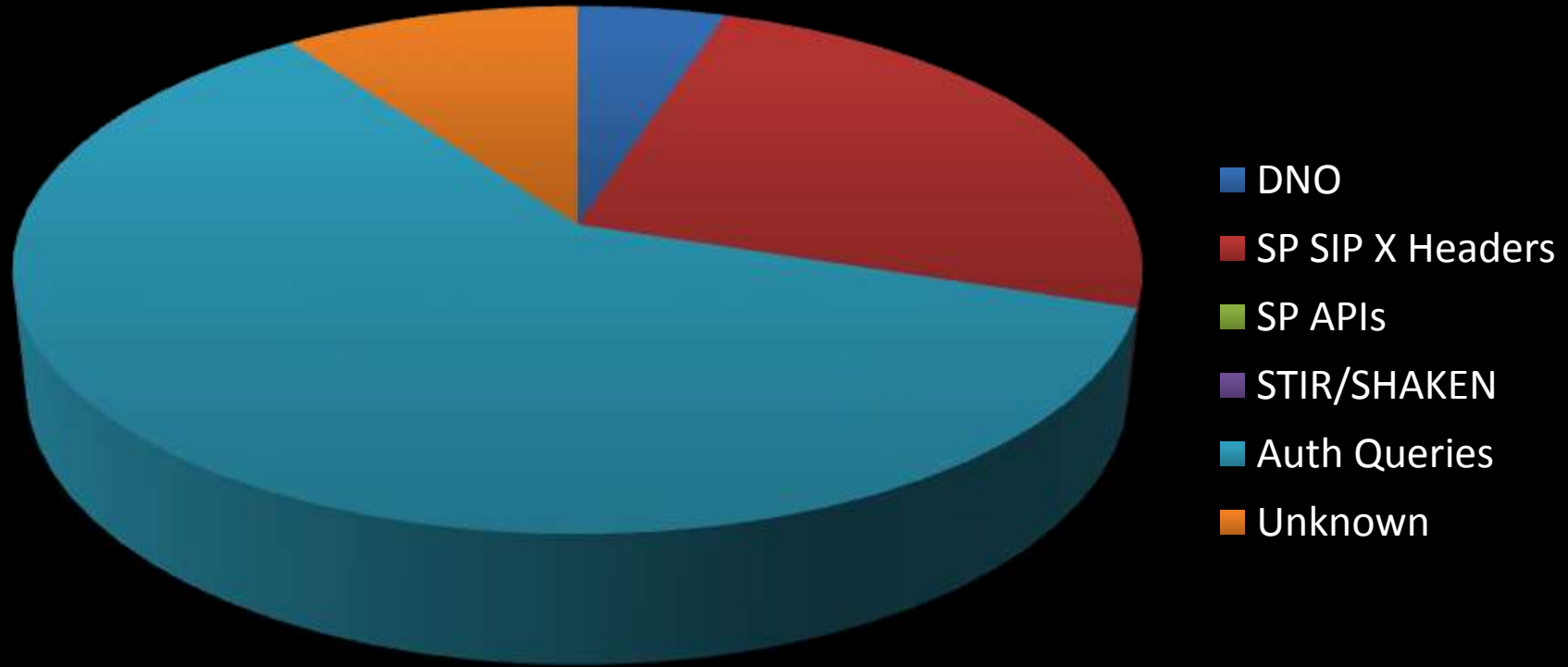
Authentication Engine



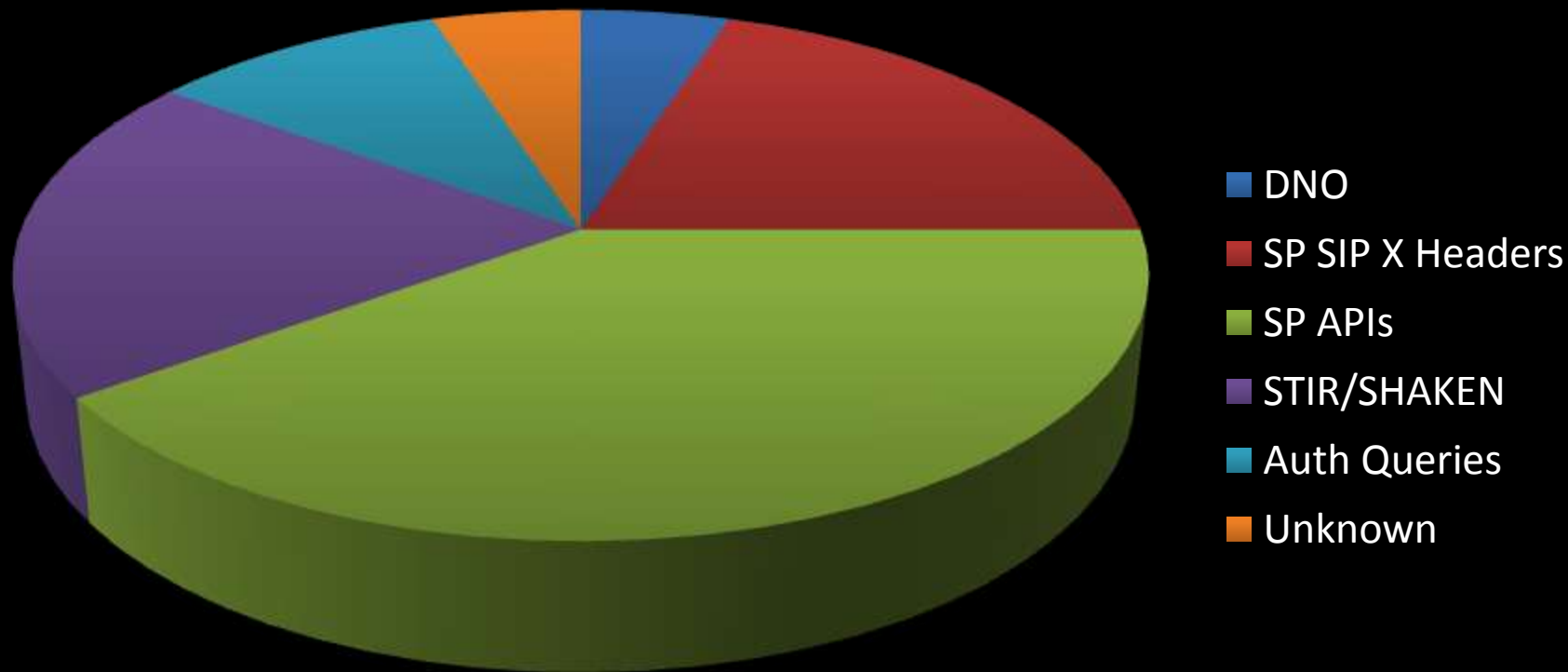
Authentication Engine



% Resolved by Technique – Now

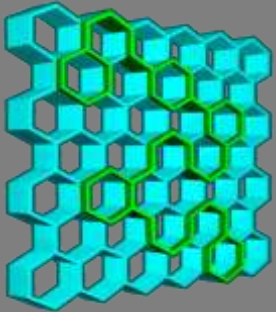


% Resolved by Technique – 1+ Year



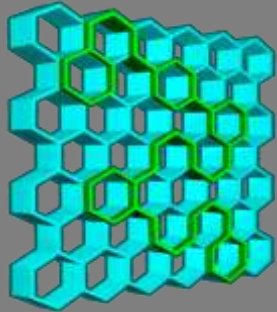
Call Scoring

**Inspect
Numbers**



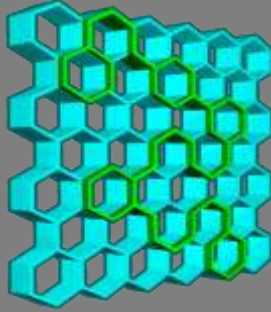
Free/Fast
Possible
On all calls

**Inspect
SIP**



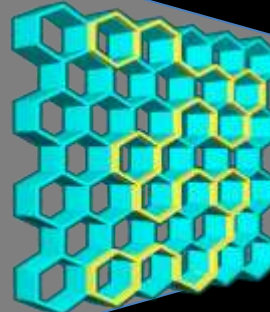
Free/Fast
Depends
On Info
In SIP

**SP
API**



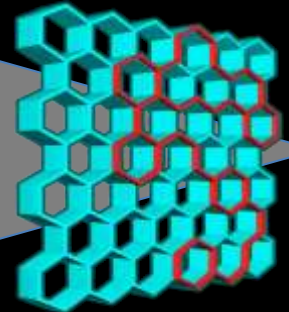
Inexpensive
Network Query
SP-Specific Calls

**Probe
APIs**



Expensive
Network Query
Tricky to Integrate

**Content
Analysis**



Last Resort
Call Answered

NG 9-1-1

