



**RING DOWN FIREBAR CONFERENCE SERVER (RFCS)**  
**STATE OF THE ART CRASH PHONE & CRASH ALARM**  
**SYSTEM**

- Started in 2002
- Headquartered in Dallas, Texas
- Ex Alcatel/DSC/MCI Management Team
- Manufacture Conference Bridges, Service Nodes, Application Servers, VAS equipment
- Sell through OEMs, Resellers, Direct
  - Multiple Wireline/Wireless Operators
  - Multiple Fortune 100 companies
  - US Army, Navy and Air Force
- Global sales and support
- Meets all requirements of FAA (AFI 13-204V3).
- Equivalent & in many ways superior to Forum Alert III

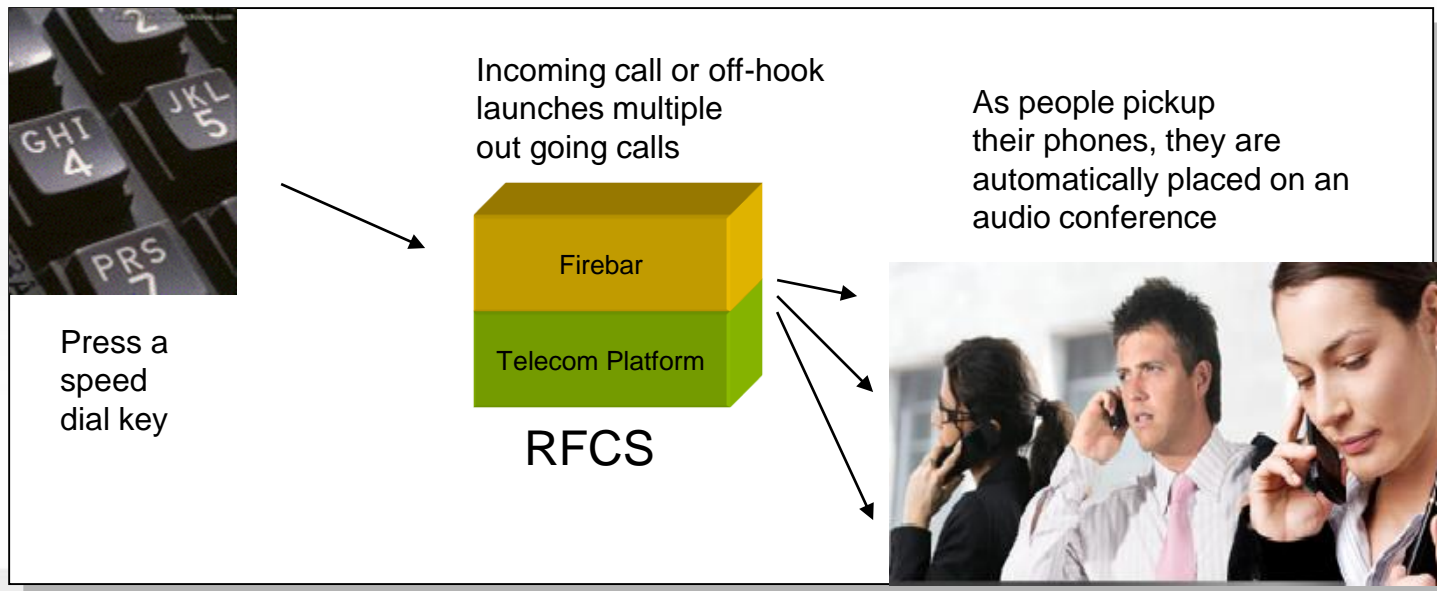
# RFCS Capabilities

One Product Platform, two distinct applications:

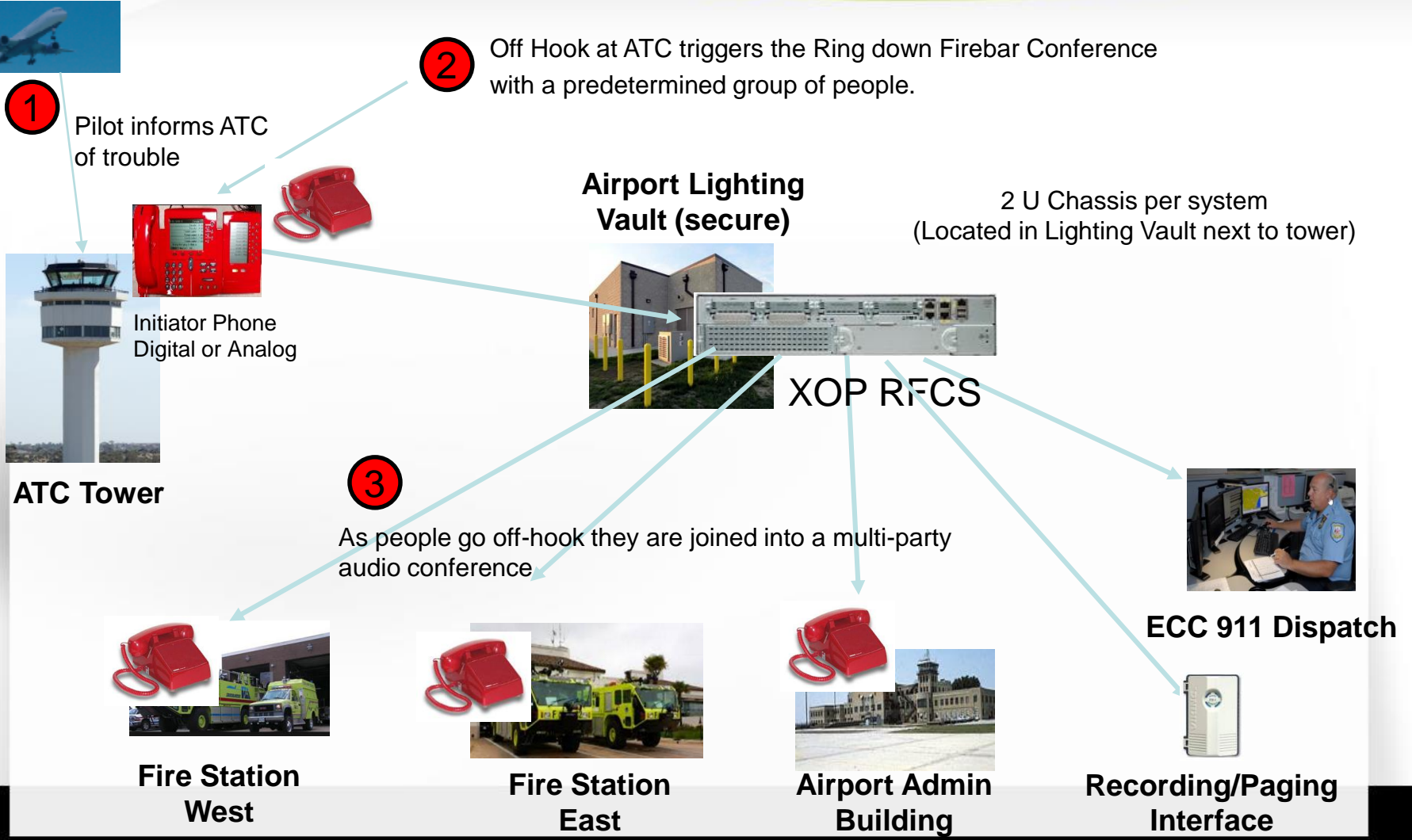
- **Crash Phone** – Red Phone in Tower goes off-hook, and immediately calls responder Stations (Firestation, Police, 911 Dispatch, etc.). As they pick-up they are automatically connected to a multi-party conference
- **Crash Alarm** – Simple push of Alarm button sends alerts to responders. Triggers bells, strobe-lights, horns, audio messages, open doors, turn-on lights.

## Crash Phone Conference System Operation

- An incoming phone call or Off Hook triggers the Firebar
- System calls-out to a predetermined group of people
- As they answer, they are joined to a multi-party conference
- If Primary Station does not answer, RFCS calls out to secondary station (cell, landline, PBX phone) via existing PBX



# Typical Crash Phone Airport Network



# Typical Airport Crash Alarm Network



**ATC Tower**

Hit the Red-button to initiate



ATC Alarm Indicator

**Airport Lighting Vault (secure)**



**XOP RFCS**



**System will:**

- **Ring Bells**
- **Light Strobes**
- **Send Recorded Messages to Responders**
- **Send Alerting Tones to Paging Systems**
- **Open Fire Station doors**

**System Automatically calls all bells, Horns & Strobes and will be activated continuously until Initiator Cancels the alarm**



**Fire Station West**



**Fire Station East**



**Airport Admin Building**



**Police Station**



**911 Dispatch**

# Combined Crash Phone & Crash Alarm Network

ATC Tower



Hit the Red-button to initiate



Initiator Phone  
Digital or Analog

Airport Lighting  
Vault (secure)



XOP RFCS



Alarm Signaling

Voice Calls



Fire Station  
West



Fire Station  
East



Paging  
Interface



Airport Admin  
Building



Police  
Station



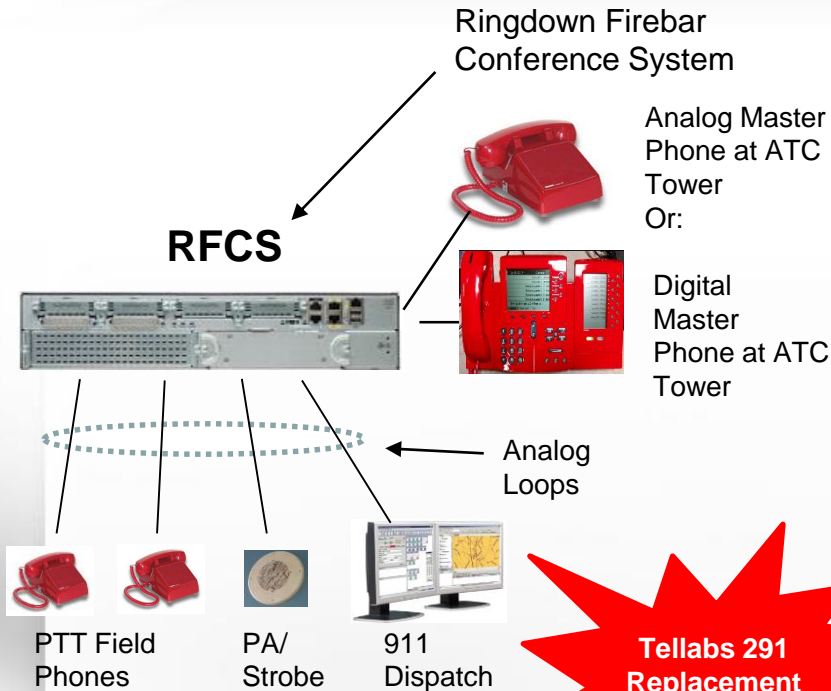
911 Dispatch

Emergency Initiator can use voice or alarm alerting

System will:

- Can initiate Voice Call and Conference from simple off-hook
- Ring Bells
- Light Strobes
- Send Recorded Messages to Responders
- Send Alerting Tones to Paging Systems
- Open Fire Station doors

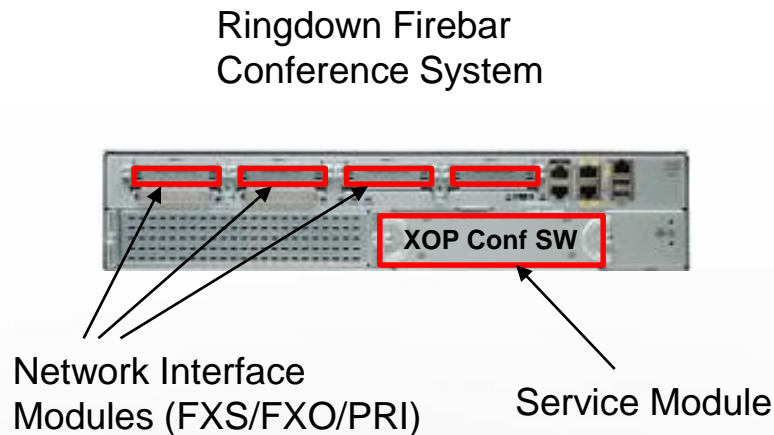
# Ring-down Firebar Conference System (RFCS) Network - Standard



- Standalone Crash Phone Ring-down Firebar equipment
- Scalable from 8 ports to 96 ports
- Can support direct analog lines and/or SIP Ports
- FXS Interface for direct connectivity to Field Phones (RED emergency Phones)
- FXO Interface for direct connectivity to PSTN/On-site PBX
- Digital Master Control Phone(s) for viewing individual line status (on-hook, off-hook, ringing etc.)
- Web Portal for provisioning and administration
- Support for 10000 feet loops (standard)
- Support for Long Loop lengths , 30,000 feet via external loop extenders (optional)
- Scheduled (Daily, Weekly etc.) recurring dial-outs for routine automated Crash Phone testing
- Multiple designated trigger phones
- Multiple hysteresis controls for preventing un-intentional triggers
- Web Portal for viewing and controlling on going Crash Phone conferences
- Built-in recording capability
- Hardened for outside plant deployment



## RFCS – Ringdown Firebar Conference System



- Platform details
  - Cisco Router based hardware
  - 2 RU high, 19" wide, 15" deep
  - FXS, FXO and T1/E1/PRI Network Interface Modules
  - SIP Trunk (optional)
  - XOP Conference Software running on Cisco Service Module
  - Web Portal for System Administration/ Control
  - Solid State Hard Drive
  - Standard FXS NIC (10 Kft)
  - Loop extenders (30 Kft) (optional)
  - Support for 2500 sets
  - Support for IP Phones (optional)
  - High Availability (optional)
  - Information Assurance - Enhanced Security (optional)
  - SNMP Monitoring (optional)

# Console/ATC Phone w/line status



Cisco IP Phone +  
Expansion module

## Expansion Module LED Operation

Button	Line Status
Off/dark	Line available
Green, steady	Line in use by you; you may also transfer the call
Red, steady	Line in use by someone else
Amber, flashing	Line ringing
Green, flashing	Call is on hold

## Field & Tower Phones For Crash Phone



- Dial less 2500 set, 0.5 REN
- Push-to -talk Handset for reducing back ground noise
- Available in desk or wall mount configurations
- Available in Black or Red color

## Alerting System Terminals



- Manufactured by Wheelock Company
- Press to initiate
- Press, rotate & release to cancel



- Approvals include: UL Standard 464, Factory Mutual (FM), California State Fire Marshal (CSFM), New York (MEA) and Chicago (BFP)
- With Standby Power
- Low frequency aluminum shells for better audibility through walls, doors and other structures



For additional information please visit our web site at  
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Thank You