XOPNetworks
EVERYTHING OVER PACKETS

RING DOWN FIREBAR CONFERENCE SERVER (RFCS)

STATE OF THE ART CRASH PHONE & CRASH ALARM SYSTEM

XOP Networks - Introduction

- 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

Press a speed dial key

Incoming call or off-hook launches multiple out going calls

Firebar

Telecom Platform

RFCS

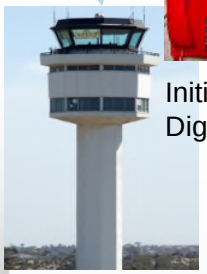
As people pickup their phones, they are automatically placed on an audio conference

Typical Crash Phone Airport Network

1 Pilot informs ATC of trouble

2 Off Hook at ATC triggers the Ring down Firebar Conference with a predetermined group of people.

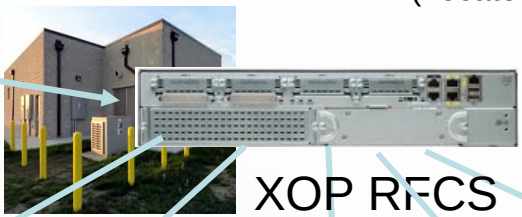
Initiator Phone
Digital or Analog



ATC Tower

Airport Lighting Vault (secure)

2 U Chassis per system
(Located in Lighting Vault next to tower)



XOP RFCS

3 As people go off-hook they are joined into a multi-party audio conference

ECC 911 Dispatch

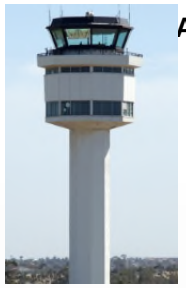
Fire Station West

Fire Station East

Airport Admin Building

Recording/Paging Interface

Typical Airport Crash Alarm Network



ATC Tower

Hit the Red-button to initiate

ATC Alarm Indicator

System will:

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

Airport Lighting Vault (secure)

XOP RFCS

System Automatically triggers 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

Initiator Phone
Digital or Analog

Hit the Red-button to initiate

Emergency Initiator can use voice or alarm or both

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***

Airport Lighting Vault (secure)

XOP RFCS

Alarm Signaling

Voice Calls

Fire Station West

Fire Station East

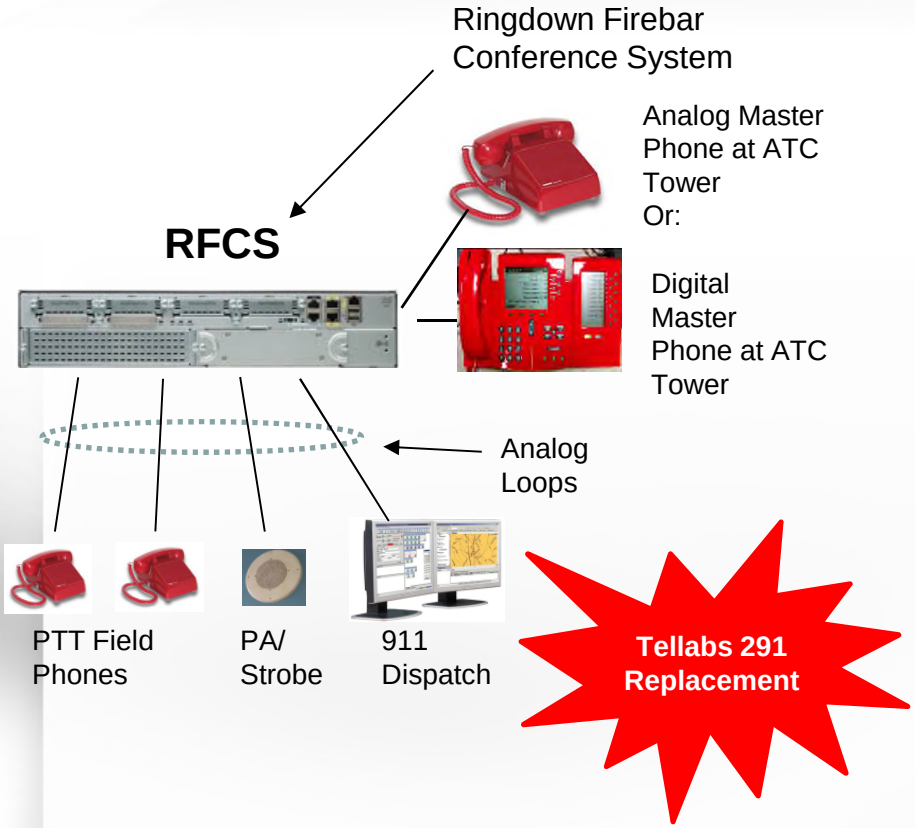
Paging Interface

Airport Admin Building

Police Station

911 Dispatch

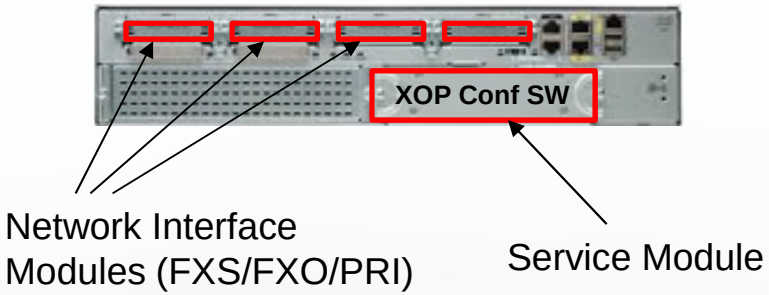
Ring-down Firebar Conference System (RFCS) Network - Standard



- 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

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
www.xopnetworks.com

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Thank You