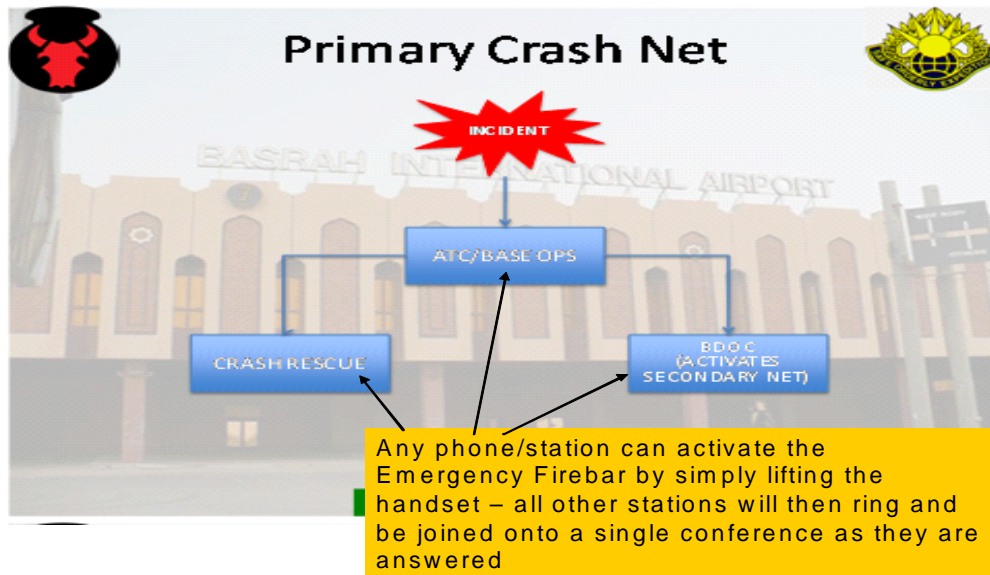## Overview

The application of a Crashnet or Ringdown Firebar system to a military Air Base is very common, both within the USA and at foreign locations. The system is basically used to alert and conference first-responders in the case of an emergency situation, as illustrated in the following diagram:



In the past, the system has been mainly based on the Tellabs 291/292. Unfortunately, these systems are quite old, non-supportable technology (Tellabs), or very expensive IP alternatives.

Important requirements of the system also include:

- It should not rely on, or be part of the switched telephone network (PABX and/or Central Office).

- It needs to be a dedicated, stand-alone crash alarm system (see AFI 13-203 and AFI 13-213) with hard wired analog phones connected on the end of standard telephone cabling (up to ~20k ft w/24awg).

- The system must be very reliable and utilize industrial grade components and preferably run on a Linux based software platform providing overall 99.999 availability.

- The system must provide readily accessible recording of the actual emergency conference, together with detailed logs, call records and station status displays.

- Scheduling of Firebar conferences shall be possible to aid with training of first responders and continued system/network functionality.

## The Solution

The XOP Networks' Ringdown Firebar Conference Server meets all requirements, in an economical and highly reliable Linux based platform that can be scaled from 8 to 96 ports, as illustrated in the following application of a Primary and Secondary Crash Network.



Typical Primary & Secondary Crash Network
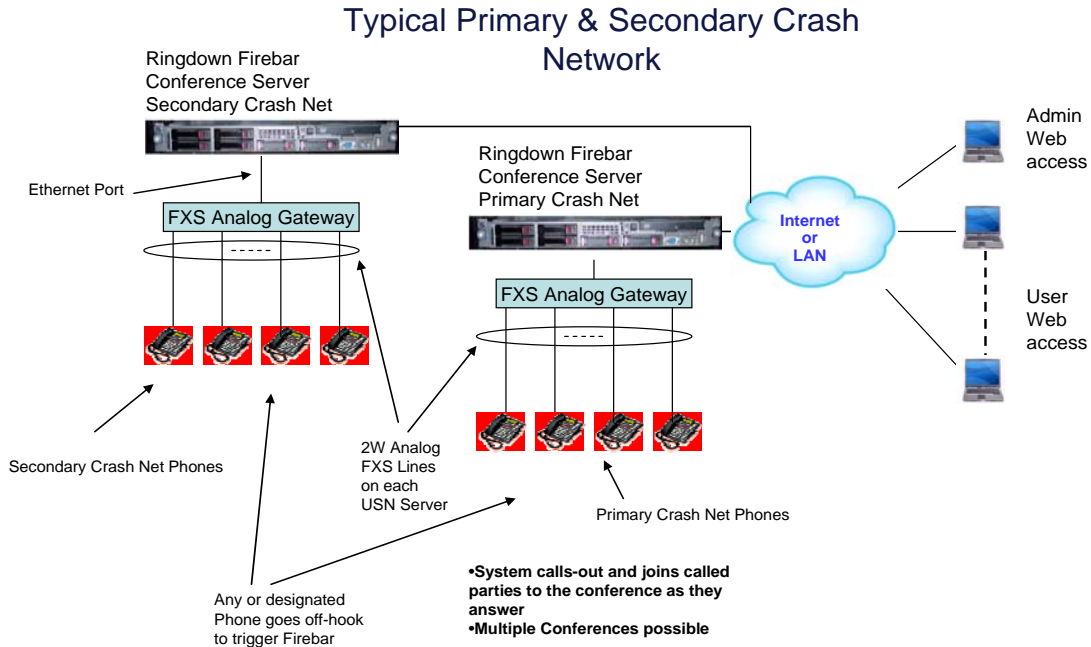
## Features and Benefits

The XOP Networks Ringdown Firebar Conference Server has a number of key capabilities and benefits, including:

- Highly reliable industrial based server running Linux application
- Plug replaceable for Tellabs 291/292 – takes up no more that a 2 U shelf space.
- Drives up to REN 0.5 ringers with 20Kft @24awg - use existing phones/lines.
- Easily upgradeable to VoIP network interface – future-proof investment.
- Records all conferences to .wav file - easily accessible for later analysis.
- Comprehensive logs and records - provides analysis of who responded, when and how long.
- Graphical display of station status - Initiator knows who is on/off the conference.
- Visual display of phone line status, on-hook, off-hook, Ringing etc. - makes line and phone fault finding easy
- Web based display/admin terminals - can be connected via private dedicated LAN, intranet, or internet.
- Cascading separate Firebars - After a primary crash net call is in progress, the moderator can use the 31# dial out sequence and trigger the secondary crash net.
- Connectivity to local PBX or CO switch - allows calls to outside parties or Firebar initiation by an outside party.