



**Genasys™**  
The Critical Communications Company

**CASE  
STUDY**

**Mass Notification Solution  
for Public Safety**

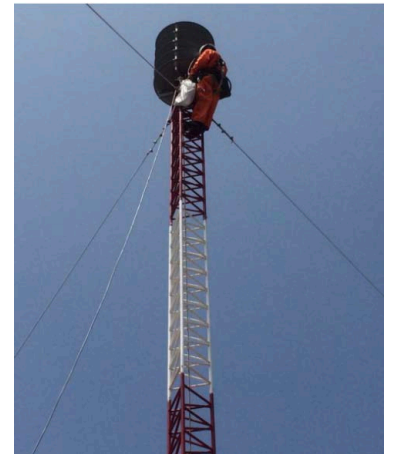
## Petronas Carigali Myanmar Limited



### SITUATION

During emergency situations at oil and gas sites, the safety of personnel is of highest priority. In such critical situations, it is crucial that all personnel on site are swiftly alerted and evacuated from hazardous areas in the shortest possible time.

Petronas Carigali Myanmar Limited (PC Myanmar Limited) is an oil and gas company that has a Pipeline Operation Centre located in Hanbouk, Myanmar. Currently, the Pipeline Operation Centre has an Emergency Alarm System for the dissemination of notifications during emergencies. However, this system is unable to provide the required range for effective communications. Although a conventional public address system fulfils its mass notification needs, it requires extensive cabling works and installation at multiple sites and is therefore not cost-effective for implementation. To ensure optimal communications during emergency situations, PC Myanmar Limited was looking for a cost-effective public address solution for its Pipeline Operation Centre.



### THE LRAD® SOLUTION

To overcome the limitations of a conventional public address system, ST Electronics (Info-Comm Systems) introduced a Mass Notification Solution using the LRAD 360X to provide highly intelligible broadcasts (Voice and Tone) over long range.

Field trials were initially conducted using the portable LRAD 100X to gauge the performance of a Long Range Acoustic Device over a speaker system. The LRAD proved to be a better solution in terms of intelligibility and range which is critical for mass notifications. However, the Portable 100X had its limitations of coverage inside the building and especially in the high noise process areas. In addition, it could not be zoned to a selected location and did not have simultaneous voice and alarm broadcasts. To overcome the Portable 100X's limited coverage inside the building, the LRAD 360X was deployed to interface to an IP based Mitel Telephone Exchange and SIP enabled speakers to provide the required coverage inside the building.





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This interface also allowed paging of the LRAD 360X from any IP Based telephone handsets within the building. The Mass Notification Solution was successfully implemented and commissioned on 20 June 2014 at the Pipeline Operation Centre. The performance of the recommended solution far exceeded the conventional public address system.

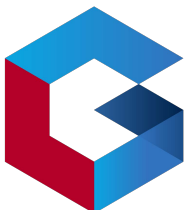
“The LRAD system implemented by ST Electronics (Info-Comm Systems) provides excellent coverage throughout the Pipeline Operating Centre. We have received positive feedback from the management and staff at the Centre. Announcements can be heard clearly even when the alarm is sounding. Cost savings of more than US\$350,000 is achieved with the implementation of this solution. The advantages of the LRAD equipment listed above far outweigh any limitations.”



**LRAD 360X**

*The LRAD 360X is an acoustic device that projects intelligible voice messages (live or pre-recorded) and powerful warning tone broadcasts. It provides perfect 360 degree coverage over long range distances. An LRAD 360X base and four emitters were implemented for PC Myanmar Ltd's Pipeline Operating Centre.*

Public safety and law enforcement agencies in 72 countries and in more than 450 U.S. cities use LRAD systems and support equipment



**About Genasys Inc.**

Genasys systems are in service in 72 countries in diverse applications, including defense, maritime, border and homeland security, law enforcement, critical infrastructure protection, emergency warning, public safety mass notification and many more.