# FORESTAL MININCO STREAMLINES FOREST OPERATIONS SAFETY AND EFFICIENCY IN CHILE



Forestal Mininco, a company of the CMPC holding, one of the largest forestry and industrial groups in Chile and Latin America, migrated its analog radiocommunication system to digital, thus meeting its operational requirements and safety-related needs. The deployment of this system will allow for the enhancement of the company's safety and operating efficiency in the areas of Maule, Biobío and La Araucanía, covering an extension of approximately 15,989 square miles in southern Chile.

To optimize its production processes and ensure reliable communications in emergency situations, Forestal Mininco decided to deploy a private radiocommunication system based on Motorola Solutions TETRA technology. It turned out to be the largest system of its kind ever deployed in Chile and one of the largest in Latin America.

## Deployment

The system deployed initially involved radiocommunication coverage through 14 **fixed** sites (antennas), a mobile unit, and 1,600 devices including base radios (fixed equipment), in-vehicle mobile devices, and portable devices for workers.

The deployment of Motorola Solutions technology allows for the rendering of **digital radio** land communication services, a traffic growth of 100% over the network, and the capability of supporting new services such as telephony, text messaging, and mobile data. The deployment is aimed at positioning Forestal Mininco right next to the largest forestry and industrial groups in Chile and Latin America, enabling access to advanced services and features in key operation points. Mobile data connectivity in rigorous work environments has become a key ally when it comes to enhancing workers' efficiency.

This technology was selected to provide Forestal Mininco with a robust and reliable communications system that in the future would support over 31,600 users on the network. It was also especially designed to be a highly fault-tolerant system enabling wide area communications (roaming) among other applications aimed at making communications more efficient.

One of the advantages of the TETRA technology is that communications can be transmitted from a single device to multiple devices, making it easier to manage a group of concurrent users. In addition, these radiocommunication devices allow for voice and data transmission, thus enabling the execution of various tasks, such as database queries, reports submission, and photos, forms, and files transfer.

## DEPLOYMENT SUMMARY

**Client**
• Forestal Mininco

**Location**
• In the areas of Maule, Biobío and La Araucanía, in southern Chile

**Website**
• www.Mininco.cl

**Vertical Market**
• Paper and pulp plants

**Solution**
• Comprised of a private radiocommunication system based on Motorola Solutions TETRA technology

**Applications**
• 1,600 mobile terminals added, including base radios, in-vehicle mobile devices, and portable devices for workers radiocommunication coverage through 14 sites (antennas).

"THE SYSTEM DEPLOYMENT EVALUATION PROCESS HAS YIELDED POSITIVE RESULTS, PROVIDING THE ENHANCEMENT OF BOTH COVERAGE AND COMMUNICATION QUALITY AMONG THE DIFFERENT REGIONS. FORESTAL MININCO IS GEOGRAPHICALLY DISPERSED AND WE NEEDED TO FEATURE SOME TECHNOLOGY THAT WOULD LET US SEAMLESSLY COVER DIFFERENT AREAS IN SOUTHERN CHILE, IN TURN ENABLING THE DEVELOPMENT OF DATA APPLICATIONS AIMED AT ENHANCING FOREST OPERATIONS EFFICIENCY", **SAID EDUARD VON PLESSING, TELECOMMUNICATIONS ENGINEER FOR CMPC, FORESTAL MININCO HEAD OFFICE.**

Analog system migration to digital TETRA involved personnel migration, restructuring, and training processes provided by Motorola Solutions' after-sales and support teams.

**Achievements and Benefits**

By deploying Motorola's TETRA technology, Forestal Mininco has managed to provide its customers with a secure and higher quality service thanks to the fidelity this migration brought about in its communications. This system has also enabled coverage throughout various regions in southern Chile, where no wide area radio coverage was available in the past.

The network deployed is totally new, since migration to digital involved the replacement of each and every antenna, cable, and radio, among other components.

"We are proud to know that our TETRA radiocommunication technology will help Forestal Mininco streamline their forest fire prevention and control processes in certain areas in southern Chile," **said Gabriel Contesse, CEO of Motorola Chile, at Motorola Solutions**, who added that "with this deployment, Motorola once more commits itself to the digitalization of all the communications in the region, thus reasserting its commitment to enterprise mobility solutions. It is also worth mentioning that both, the management and maintenance of the system deployed will be Motorola's responsibility"

This platform allows for centralized system management through a control center featuring three dispatch consoles, allowing for the inclusion of staff into various conversations or the management of surveillance for forest fire prevention and control.

The second phase will entail the inclusion of data transmission and AVL (Automatic Vehicle Location) technology.

www.motorolasolutions.com/caribbean/tetra

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