



WAVE PTX™ ENHANCES SHUTTLE BUS SAFETY, SECURITY AND EFFICIENCY

Drivers are using easy-to-use Evolve LTE Handhelds for reliable, instant PTT Communications to keep the kindergarten workers and parents informed

Children Thrive in the Great Outdoors

Yuai Kindergarten is set in a stunning location, surrounded by the mountains of Odawara. Children can enjoy nature with their friends and teachers. They come to the Kindergarten every day and the catchment area is wide, so the shuttle buses provided are indispensable.

Communication Challenges

For many years communicating between the shuttle buses and the kindergarten has been a challenge. Although Push-to-Talk (PTT) communications are very convenient, the mountainous terrain around Odawara made it very hard to get radio coverage in some areas. The buses follow a 5-kilometer circular route. In the flat areas, the previous radios had coverage. However, there was one area on the route where a mountain blocked the radio signal, so drivers could no longer communicate at this point in the journey, impacting the safety and security of the children and the efficiency of their service. To resolve this issue, the shuttle buses have now deployed the WAVE PTX subscription-based broadband PTT solution and the Evolve LTE Handhelds.

Customer

Yuai Kindergarten

Industry

Education

Technology & Device

Wave PTX (LTE Push-to-Talk) Service
EVOLVE

Partner



WAVE PTX: No Communication Barriers

The kindergarten looked at various options to ensure reliable communications at all times between the shuttle buses and the kindergarten. One option was a smartphone with integrated GPS, but this did not offer instant PTT communications or messaging. The monthly cost was also prohibitive. Indeed the kindergarten had been looking for an optimal solution for a few years and had tested various different systems, before it finally found WAVE PTX and the Evolve LTE Handhelds. The Evolve radios are equipped with a dedicated PTT button and WAVE PTX offers seamless PTT communications, clearer voice quality, GPS tracking, and other features that go beyond smartphone PTT applications. Four Evolve handhelds have now been deployed. One at the kindergarten and the other three are carried by staff on the three shuttle buses. The system is used heavily every day to report issues such as a child's absence, bus requirements and changing pick up and drop off locations; and staff and drivers are now all connected at all times, so they always have the latest, real-time information.

Robust Communications

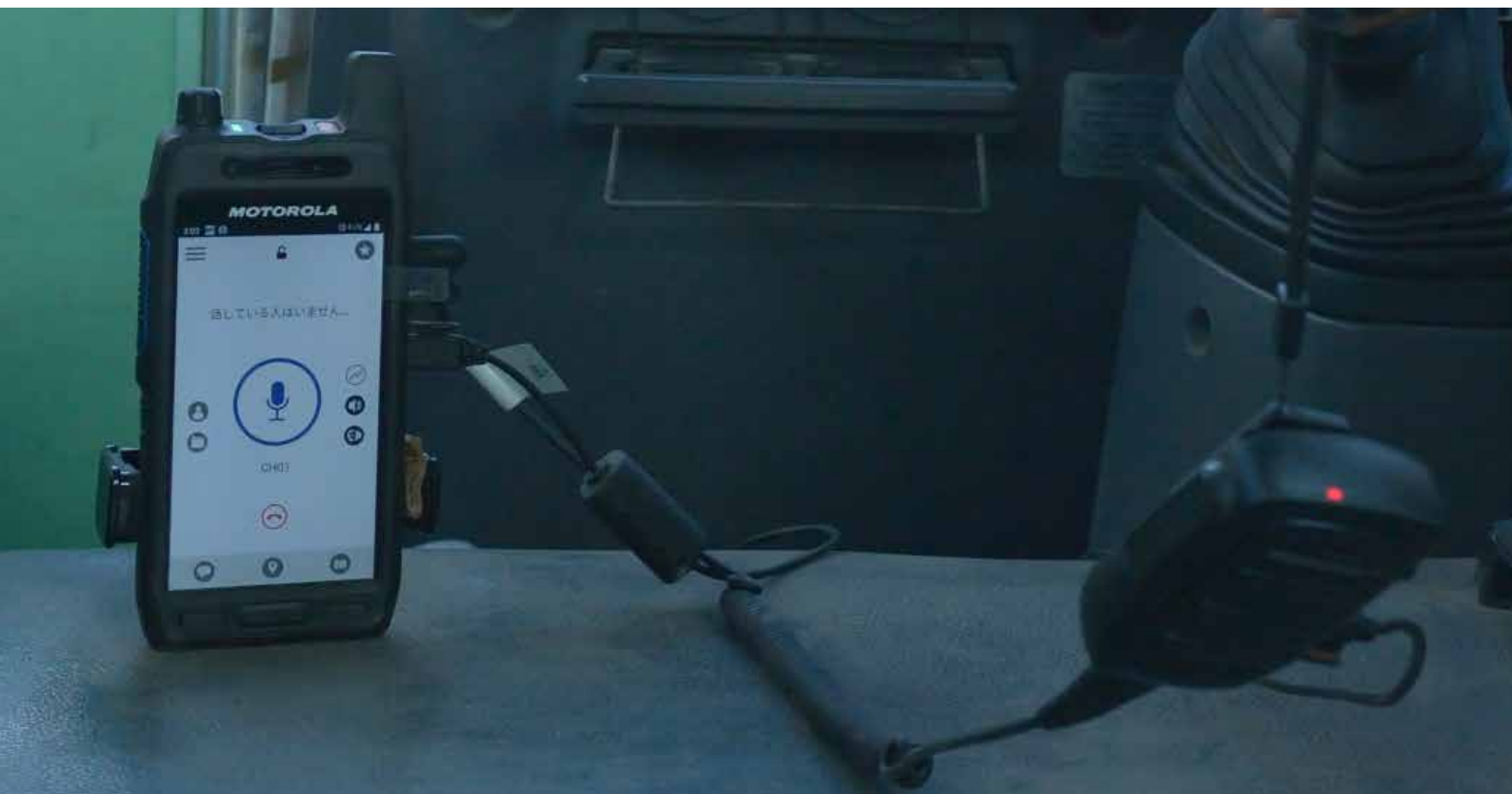
WAVE PTX and the Evolve LTE handhelds proved to be the best choice. The communication issues have been resolved, which has greatly reduced the stress on the staff. There is a great deal of responsibility when caring for young children. Reliable and instant communication among staff is essential in order to manage and respond quickly to any incident. Thanks to WAVE PTX, employees know that they will hear and be heard, the first time, and that their message will always get through. This is the peace of mind that comes from robust communications.

“How can we achieve reliable communications in this natural, mountainous terrain to ensure safety and security? The answer? WAVE PTX and Evolve.”

Yasuyuki Moto, Yuai Kindergarten

“I knew that only WAVE PTX could cover the entire bus route without compromise and meet the client's requirement for constant coverage.”

Yuichi Yamazaki, SUN Telecom Japan Co Ltd



Multimedia Connections without Limits

Meanwhile, the WAVE PTX mobile app enables members of staff and parents to also connect into the WAVE PTX system from their personal smartphones. They can receive instant messages, should there be an accident or roadworks that require buses to change their routes, or if buses are delayed due to heavy traffic. This is very convenient for parents, as it means they have real-time information as to when is the best time to walk to the bus stop, so they don't have lengthy, unnecessary waiting times, especially in inclement weather. Parents can even track the shuttle buses in real-time using the app, so they are always up to date.

Evolve: A tough Device for Tough Environments

The Evolve LTE Handheld is an extremely rugged device, with a 5" display that meets IP68 and MIL-810 standards and can easily withstand repeated drops onto concrete. It has easy-to-use programmable buttons and is designed to be operated in all weather, with a water- and liquid-resistant touchscreen that can be operated with gloves and a range of suitable accessories.

Experienced Authorized Sales Partners

Motorola Solutions partner, SUN Telecom Japan Co Ltd, deployed the optimal, turn-key solution to directly fulfill Yuai Kindergarten's specific requirements. Yuichi Yamazaki, project manager, recalls, "The analog radio system was going to be discontinued anyway and we were determined to find the best solution. There is a small mountain directly behind the kindergarten which caused issues, even with the digital network. So, we needed to find a solution which offered robust coverage everywhere along the shuttle bus routes. Moreover, Yuai Kindergarten's Principal wanted the option of GPS location information as part of the new system. Which is the two main reasons we proposed WAVE PTX with the Evolve handhelds. The Evolve handhelds are also ideal for the job, as they are so robust and enterprise ready with excellent battery life."





WAVE PTX and Evolve LTE Handhelds

Key Facts

Crystal-clear Audio

WAVE PTX's AI-backed noise suppression and the Evolve radio's integrated noise suppression and echo cancellation microphones ensure messages are received loud and clear, even when workers are surrounded by a lively bunch of noisy children. There is also a wide range of specific high-performance accessories, such as earpieces and Remote Speaker Microphones (RSMs), if needed.

Communications without Boundaries

The Evolve devices and the WAVE PTX app constantly roam to find the strongest cellular or WiFi signal for instant PTT communications without boundaries, irrespective of geographical or site challenges. Kindergarten workers, shuttle bus drivers and parents are now always connected.

Robust and intuitive Devices

The Evolve handhelds are built with the familiar user experience of the Android operating system, so are very intuitive for anyone who has operated an Android smartphone or a tablet. And yet they offer all the functionality of a professional radio, with PTT for instant communications. They are also rugged and durable, designed for enterprise.

WAVE PTX Mobile App: for added Flexibility and Connectivity

Yuai Kindergarten allows parents and other kindergarten workers to connect into its WAVE PTX system via the WAVE PTX Mobile app, which they have been able to download onto their smartphones. In this way they can pick up messages about the shuttle buses and follow the buses' progress in real-time, which helps to keep everyone well informed and on time.

For more Information please visit motorolasolutions.com/waveptx

