



# TRANSFORMING WASTE MANAGEMENT OPERATIONS WITH WAVE PTX

## ACCELERATING GROWTH WITH SCALABLE COMMUNICATIONS FOR A SUSTAINABLE FUTURE

According to the National Waste Report 2022, Australia generated about 76 million tonnes of waste for the financial year 2020-2021. The trend shows that each year, more waste will be generated. After two years of disruption from the COVID-19 pandemic, population growth and a return of activities will also account for increased residential, commercial and industrial waste.

Proper waste management is, therefore, essential to protect the environment and public health. As communities put into practice the 3Rs of waste management: Reduce, Reuse, and Recycle, the waste collection becomes a specialised service requiring a cohesive network to ensure a clean and sustainable environment.



## WAVE PTX: AN ESSENTIAL UPGRADE TO FUTURE-PROOF BUSINESS

CSE Crosscom, a Platinum Partner of Motorola Solutions, is equipping its customers in the waste management industry with scalable, reliable and seamless communications.

One such customer was expanding its fleet of waste collection vehicles from 120 to 150 trucks. Every day, the customer had to fulfil their waste collection responsibilities over 300 sites across Western Australia. Relying on their existing communications network was challenging as they experienced several blackspots resulting in vehicles with poor or no communications coverage for significant parts of the day.

The lack of coverage from ageing analogue radios created many challenges for the customer who depended on their network of drivers, whether disposing of waste in landfills or collecting waste from homes. It also presented a safety risk in the case of drivers disposing of hazardous waste.

Jaime Chaplyn, Regional Manager WA/NT at CSE Crosscom, "Communication and collaboration are essential in a complex and highly regulated industry. The company needed to address the communication challenges to progress. It was also looking to expand coverage into its regional operations south of Western Australia and ultimately state-wide by integrating the vehicles in the north. It was time to replace the aging hardware with advanced technologies that would improve productivity, reduce safety risks and future-proof the company's business."





After understanding the customer's needs, CSE Crosscom proposed the versatile Push-to-talk over cellular (PTToC) WAVE PTX solution and deployed 123 terminals, gradually expanding into 150 additional terminals as demand for the solution developed.

Designed to connect teams across different devices, networks, and locations, Motorola's WAVE PTX solution seamlessly integrates with existing communication systems, such as two-way radios, smartphones, and other devices, making it easy for staff to migrate to the WAVE platform without having to replace their existing infrastructure.

To meet the growing demand for instant connection across different teams over Western Australia's vast and diverse areas, CSE Crosscom

provided approximately 300 TLK 150 mobile radios and TLK 100 portables as part of the total WAVE PTX solution.

With CSE Crosscom's strong communications expertise, the waste management customer expanded coverage with smooth installation in 2020 with the metropolitan Head Office in Malaga and the 2021 Southern Regional Office in Mandurah. In late 2022, further coverage expansion to the Southern regional offices was undertaken by installing 140 TLK 150 and TLK 100 radios in Albany, Bunbury, Esperance and Kalgoorlie.

Chaplyn elaborated, "CSE Crosscom is thrilled to assist our customer's ongoing expansion plans, including a rollout into the Northern fleet, scheduled by 2024."

“**The customer was impressed by the clear audio, smooth deployment, scalable solutions and multi-device connectivity that strengthened communications among over 200 staff in various locations. WAVE PTX solutions are just what the customer needs to support their growing business needs.**”

**Jaime Chaplyn,**  
Regional Manager WA/NT  
at CSE Crosscom





## EQUIPPING CUSTOMERS TO ACHIEVE THEIR MISSION

CSE Crosscom is committed to helping waste management customers fulfil their responsibilities to their stakeholders and community. By equipping their customers with the right communications solutions like WAVE PTX, businesses are more productive and contribute to safer outcomes. Consider these benefits:

### ENHANCED OPERATIONAL EFFICIENCY

Real-time data collection and analysis are possible with WAVE PTX's unified technologies that track vehicle routes and optimise collection schedules based on data-driven insights, giving rich situational awareness to make informed decisions. This efficiency level reduces unnecessary collection trips, decreases fuel consumption, and minimises carbon emissions. As a result, waste management companies can streamline operations while enabling environmental sustainability.

### SECURE COMMUNICATIONS

The WAVE solution provides secure, encrypted communication channels that comply with industry standards and regulations. This feature ensures that sensitive information, such as hazardous waste data, is protected from unauthorised access. Combined with the interoperability of various devices to deliver instant Communication, responding promptly to emergencies and operational concerns is just a button away.

### CENTRALISED MANAGEMENT CAPABILITIES

The WAVE platform provides centralised management capabilities, enabling waste management companies to manage their communication systems and devices from a single, easy-to-use platform.

Scalable future-forward solutions: A dynamic and growing organisation needs an equally up-to-speed communication network of unified technologies. WAVE PTX solutions will help drive and sustain organisational effectiveness to meet the challenging demands in waste management.

For more information, please visit [www.motorolasolutions.com/waveptx](http://www.motorolasolutions.com/waveptx)

### ABOUT CSE CROSSCOM

CSE Crosscom is part of the CSE Global Group of Companies listed on the Singaporean stock exchange (SGX:544). Servicing the major industrial, government, transport and security industries Australia-wide, they put communication technologies in place to support worker safety, continuous operability and improved performance.



Motorola Solutions Australia & New Zealand PTY LTD. 10 Wesley Court, Tally Ho Business Park, Burwood East, Victoria 3151, Australia | [motorolasolutions.com](http://motorolasolutions.com)

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