

SYSTEMATIC

COMPANY OVERVIEW

Systematic is a world leader in advanced command and control (C2) solutions for Defence. Through our SitaWare software suite we offer comprehensive C2 and situational awareness capabilities across all levels of the battlespace - from headquarters through to the individual dismount - while our IRIS military messaging system has become the de-facto NATO interoperability standard. Systematic developed solutions are in widespread use globally and are operationally proven. Amongst users are numerous NATO members, including the US Army - which is employing SitaWare as the basis for its Command Post and Mounted Computing Environments. Outside of NATO, SitaWare is being used as the Australian Army's interim Track Management capability, while New Zealand has deployed the software across its defence force. SitaWare has also become the underlying software for the Land Tactical System of the United Arab Emirates, among many other operators.



and national security, and libraries and education.

Our mission is to simplify critical decision making. According to David Horton, "we offer a number of key capability differentiators. For example, the SitaWare suite has an open architecture and is hardware agnostic. These features enable the software to be easily integrated with any communications system. It is also designed to be intuitive and easy to use, requiring only minimal training for operators to become proficient." As a scalable solution, SitaWare can support operations across all levels of the battlespace as well as in the Joint environment, enabling true interoperability and seamless connectivity between forces.

UNIQUE VALUE PROPOSITION

Systematic was established in Denmark in 1985 and now has a global footprint, including Australia. Alongside its work in the Defence sector, the company produces a range of solutions for healthcare, intelligence



Because SitaWare has been developed to work in challenging tactical environments, it operates over Combat Net Radio and even HF radio; but Mr Horton notes, "It also scales to stream video from sources such as UAVs and can be used to plan and distribute complex joint orders. A further significant feature of the SitaWare solution is the software development kit that we license, which enables third parties to seamlessly integrate their systems." Finally, SitaWare is a commercial-off-the-shelf solution, proven in operations around the world. This allows the ADF to gain the benefit of input over many years from various armed forces, in a cost-effective solution that can be deployed in weeks, rather than years.

OUR ROLE IN HORIZON DEFENCE SYSTEMS

While regularly consulting with troops to gain their experience on the field is imperative, the feedback gained can also be limited for the purposes of developing new systems because standard military procurement systems ensure soldiers are frequently working with yesterday's technology. Further, many of the technologies employed by Western militaries are sourced from the catalogues of major allies, and therefore, the systems and procedures that troops adopt regularly fail to address the unique requirements of each force. According to Mr Horton, "Systematic considers a major benefit from working with the innovative Australian companies that make up the Horizon Defence Systems Alliance is the culture of information exchange that allows members to learn from each other about considerations they've never really thought about in defence before." More specifically, "one of my first practical observations of the Alliance's operations was the learning brought to the table from the sports industry about concussion-impact effects, and how new technologies and approaches are being utilised to minimise future detrimental effects on players." Future ADF operations will see information on each individual soldier's condition relayed to operational HQs in such a way that commanders will be able to much more accurately assess the status of troops in the field. The combination of health monitoring devices embedded in combat ensembles and evolving communications technologies said Mr Horton, "will enable each commander to know exactly where formations are located, what condition they are in to advance the mission, and of course, communicate engagement tactics to assure success in the battlespace against the threat." He adds, "Horizon Defence Systems offers a dynamic forum through which all these future technologies can be brought to the Australian Defence Force."



OUR VISION IN DEFENCE

The experience of contemporary conflict suggests that in the future, very few operations will be conducted by militaries acting independently. Combined missions supported by individual partner forces have become the norm. Achieving interoperability within and between such forces has therefore become the key to achieving success on the battlefield. In these respects, Mr Horton regards Systematic's ability to develop solutions that act as the 'digital glue' to bring together multiple functions and actors will provide a significant force multiplier. While 'traditional' C2 functions, such as force tracking, will remain as important as ever, "the introduction of a wider range of data inputs promises improvements for commanders. For example, if information from smart weapons that count rounds expended can be effectively passed to commanders, they will be able to make better informed decisions on the potential combat effectiveness of combat units, as well inform logistics systems to initiate resupply activities to ensure the tempo of operations can be sustained."

