

# C5ISR Market to Exceed US \$14.57 Billion by 2029, with 10.6% CAGR: The Business Research Company

*The Business Research Company's C5ISR Global Market Report 2025 – Market Size, Trends, And Forecast 2025-2034*

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/EINPresswire.com/ -- What Is The [C5ISR Market Size](#) And Growth?

In the recent past, the [C5ISR market](#)

has experienced swift growth and it is projected to evolve from \$8.74 billion in 2024 to \$9.71 billion in 2025, reflecting a compound annual growth rate (CAGR) of 11.1%. The surge during the historical period is due to the escalating use of unmanned systems in defense ventures, the burgeoning requirement for unified command and control systems, the mounting risk of cyber

threats necessitating cybersecurity, the amplified focus on situational awareness and surveillance and the increasing instances of asymmetric warfare and counterterrorism operations.

Rapid escalation is anticipated in the C5ISR market size over the upcoming years, with the growth predicted to reach a mark of \$14.57 billion in 2029, boasting a compound annual growth rate (CAGR) of 10.7%. The growth during the projected period can be linked with elevated demand for interoperable and modular defense

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systems, a greater emphasis on electronic warfare capabilities, a surge in joint military exercises and coalition efforts, enhanced use of cloud computing in the defense sector, and an upsurge in the need for expedient data processing and real-time intelligence. Significant patterns for the projected period comprise progress in artificial intelligence for intelligence assessment, high-end sensor fusion mechanisms for enhanced situational perception, innovation in cyber defense, encryption methodologies, amalgamation of satellite and terrestrial communication structures, and development in autonomous surveillance premises and unmanned mechanisms.

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### What Are The Key Factors Driving Growth In The C5ISR Market?

The escalation of cybersecurity risks is anticipated to fuel the expansion of the C5ISR market in the future. Such threats encompass potential harmful attacks or unauthorized actions intended to compromise, snatch, or interfere with data, systems, or networks. This rise in cybersecurity risks mainly originates from the growing digitalization of services, as more corporations and individuals become reliant on digital platforms. This scenario provides a broader attack base for cybercriminals to leverage delicate data and hamper operations. C5ISR bolsters the defense against cybersecurity risks by unifying command, control, communications, computers, combat systems, intelligence, surveillance, and reconnaissance. This integration allows for real-time threat detection, synchronized response, and secure information dissemination across military and strategic networks. For example, the Australian Signals Directorate, a government agency based in Australia, reported in November 2023 that approximately 94,000 instances of cybercrime were recorded in Australia during the 2022-23 fiscal year. This represents a 23% rise compared to the previous year. Hence, the escalation of cybersecurity risks is prompting the expansion of the C5ISR market.

### Which Companies Are Currently Leading In The C5ISR Market?

Major players in the C5ISR Global Market Report 2025 include:

- Lockheed Martin Corporation
- Airbus Defence and Space GmbH
- Northrop Grumman Corporation
- Honeywell International Inc.
- Thales Group
- L3Harris Technologies Inc.
- Leonardo S.p.A.
- Leidos Holdings Inc.
- Booz Allen Hamilton Holding Corporation
- Science Applications International Corporation

### What Are The Top Trends In The C5ISR Industry?

Key players in the C5ISR market are adopting cutting-edge technologies like quantum encryption to improve data security and defend sensitive military communications against cyberattacks. Quantum encryption operates on principles of quantum mechanics such as superposition and entanglement, which ensure the secure transmission of data by facilitating quantum key distribution (QKD). Notably, QKD allows any intrusion attempts to be promptly identified and hence, adding a layer of protection to crucial information. For instance, in February 2025, Shipcom Wireless Inc., a U.S. software development firm, debuted their Quantum C5ISR (SQC5ISR) solution. The solution utilizes quantum-secure communications to protect vital military data. This comprehensive system includes quantum-resistant encryption, AI/ML-powered battle management, and a private 5G battle network for the Department of Defense,

enabling swift, secure data transfer from enterprise networks to the tactical edge, thereby boosting the operational capabilities of the U.S. Department of Defense in high-threat contexts.

### Comparative Analysis Of Leading C5ISR Market Segments

The c5isr market covered in this report is segmented –

- 1) By Type: Land, Naval, Airborne, Space
- 2) By Installation: New installation, Retrofit
- 3) By Application: Command And Control, Communication, Computers, Combat, Intelligence, Surveillance And Reconnaissance, Electronic Warfare
- 4) By End-Use: Defense, Commercial

### Subsegments:

- 1) By Land: Armored Command Vehicles, Ground-Based Radar Systems, Mobile Command Posts, Unmanned Ground Vehicles (UGVs), Electronic Warfare Systems
- 2) By Naval: Shipborne Radar and Sonar Systems, Maritime Surveillance Systems, Combat Management Systems (CMS), Electronic Support Measures (ESM), Submarine Communication Systems
- 3) By Airborne: Airborne Early Warning and Control Systems, Intelligence, Surveillance, and Reconnaissance (ISR) Aircraft Systems, Tactical Datalinks, Unmanned Aerial Vehicles, Airborne Signal Intelligence
- 4) By Space: Military Satellites, Satellite Communication (SATCOM) Systems, Space-Based Intelligence, Surveillance, and Reconnaissance (ISR) Systems, Missile Warning Systems, Navigation and Positioning Systems

View the full c5isr market report:

<https://www.thebusinessresearchcompany.com/report/c5isr-global-market-report>

### Which Regions Are Dominating The C5ISR Market Landscape?

The Asia-Pacific region held the top spot in the C5ISR Global Market Report 2025. This report also anticipates North America to have the fastest growth rate in the coming years. The regions included in documenting the C5ISR market report were Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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