

Voice Communication Control System Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By Application, By End-use, By Region, And Segment Forecasts, 2022 - 2030

<https://marketpublishers.com/r/VCD9A5648B86EN.html>

Date: January 2023

Pages: 120

Price: US\$ 4,950.00 (Single User License)

ID: VCD9A5648B86EN

Abstracts

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Voice Communication Control System Market Growth & Trends

The global voice communication control system market size is expected to reach USD 6.31 billion by 2030, registering a CAGR of 6.5% from 2022 to 2030, according to a new report by Grand View Research, Inc. The voice communication control system (VCCS) connects and controls several voice communication systems used for air traffic management (ATM). It works on various IT protocols customized for each set of facilities. VCCS is majorly used in the aerospace industry for air traffic management operations.

The rising number of air passengers across the globe has increased demand for the construction of new airports and commercial aircraft deliveries. Due to the huge population, China and India have observed high growth in air traffic compared to other countries. The growing number of airports is anticipated to increase the development of air traffic management infrastructure. Upgraded ATM infrastructures will provide seamless and efficient air traffic control operations.

However, voice communication systems in defense, aviation, and airports must adhere to very tight design guidelines. Additionally, the design must verify that all safety and security regulations are followed, which is a tedious process. These difficulties

confronted by recent market entrants prevent market expansion. Consequently, it is anticipated that the demanding design requirements for the voice communication control equipment used for aviation & defense applications are expected to restrain the market expansion.

The COVID-19 outbreak has severely impaired the world economy. Commercial aviation operations were suspended in 2020 due to the reduction in air traffic brought on by the lockdowns in many countries. As a result, the demand for air traffic control was reduced, further decreasing the need for voice communication systems. In addition, the suspension of international maritime trade also led to a reduction in vessel traffic control. Hence, COVID-19 had a negative impact on the voice communication control systems market.

Voice Communication Control System Market Report Highlights

The hardware segment is expected to dominate the market during the forecast period. The segment is estimated to grow owing to an increase in demand for high-tech VCCS components such as digital switches, consoles, connections, and antennas. As new air traffic control towers require modern VCCS technology, the rising development of air traffic control towers is predicted to promote market expansion

The air traffic control segment is expected to dominate and witness the fastest growth during the forecast period. The aviation industry mostly uses voice communication control systems for air traffic control operations. VCCS facilitates ground-to-ground and ground-to-air communication in air traffic control. The market expansion is predicted to be supported by the recent advancements in VCCS technology, such as the digital voice communication system that provides real-time aircraft data to pilots and ground staff

The defense segment is predicted to register significant growth throughout the forecast period. The increasing defense budget of several countries, such as the U.S., India, and China, for upgrading the equipment is expected to assist the market growth. The rising modernization of tactical voice communication systems for secure and seamless communication is anticipated to propel segment growth

Asia Pacific is anticipated to emerge as the fastest-growing region owing to growing developments of new airports in countries such as India and China. The

increasing air passenger traffic due to the rising disposable income of individuals has led to the development of new airports in Asian countries to fulfill the demand for air travel

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1. Research Methodology
- 1.2. Research Scope and Assumptions
- 1.3. List of Data Sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1. Market Snapshot
- 2.2. Segment Snapshot
- 2.3. Competitive Landscape Snapshot

CHAPTER 3 VOICE COMMUNICATION CONTROL SYSTEMINDUSTRY OUTLOOK

- 3.1. Market Segmentation and Scope
- 3.2. Voice communication control system Market - Value Chain Analysis
- 3.3. Voice communication control system Market - Market Dynamics
 - 3.3.1. Market driver analysis
 - 3.3.1.1. Growing number of greenfield airport projects in emerging countries
 - 3.3.1.2. Increasing demand for interoperable voice communication
 - 3.3.2. Market challenge analysis
 - 3.3.2.1. Strict safety regulations and aviation system design standards
- 3.4. Voice communication control system Market - Porter's Five Forces Analysis
- 3.5. Voice communication control system Market - PESTEL Analysis

CHAPTER 4 VOICE COMMUNICATION CONTROL SYSTEMCOMPONENT OUTLOOK

- 4.1. Voice communication control system Market Share By Component, 2021
- 4.2. Hardware
 - 4.2.1. Voice communication control system market, by hardware, 2017 - 2030
- 4.3. Software
 - 4.3.1. Voice communication control system market, by software, 2017 - 2030
- 4.4. Service
 - 4.4.1. Voice communication control system market, by service, 2017 - 2030

CHAPTER 5 VOICE COMMUNICATION CONTROL SYSTEMAPPLICATION

OUTLOOK

- 5.1. Voice communication control system Market Share By Application, 2021
- 5.2. Air Traffic Control
 - 5.2.1. Voice communication control system market for air traffic control, 2017 - 2030
- 5.3. Vessel Traffic Control
 - 5.3.1. Voice communication control system market for vessel traffic control, 2017 - 2030
- 5.4. Disaster & Emergency Management
 - 5.4.1. Voice communication control system market for disaster & emergency management, 2017 - 2030
- 5.5. Others
 - 5.5.1. Voice communication control system market for others, 2017 - 2030

CHAPTER 6 VOICE COMMUNICATION CONTROL SYSTEM END-USE OUTLOOK

- 6.1. Voice communication control system Market Share by End-use, 2021
- 6.2. Commercial
 - 6.2.1. Voice communication control system market by commercial, 2017 - 2030
- 6.3. Defense
 - 6.3.1. Voice communication control system market by defense, 2017 - 2030

CHAPTER 7 VOICE COMMUNICATION CONTROL SYSTEM REGIONAL OUTLOOK

- 7.1. Voice communication control system Market Share By Region, 2021
- 7.2. North America
 - 7.2.1. North America Voice communication control system market, 2017 - 2030
 - 7.2.2. North America Voice communication control system market, by component, 2017 - 2030
 - 7.2.3. North America Voice communication control system market, by application, 2017 - 2030
 - 7.2.4. North America Voice communication control system market, by end-use, 2017 - 2030
 - 7.2.5. U.S.
 - 7.2.5.1. U.S. Voice communication control system market, 2017 - 2030
 - 7.2.5.2. U.S. Voice communication control system market, by component, 2017 - 2030
 - 7.2.5.3. U.S. Voice communication control system market, by application, 2017 - 2030

- 7.2.5.4. U.S. Voice communication control system market, by end-use, 2017 - 2030
- 7.2.6. Canada
 - 7.2.6.1. CanadaVoice communication control system market, 2017 - 2030
 - 7.2.6.2. CanadaVoice communication control system market, by component, 2017 - 2030
 - 7.2.6.3. CanadaVoice communication control system market, by application, 2017 - 2030
 - 7.2.6.4. CanadaVoice communication control system market, by end-use, 2017 - 2030
- 7.3. Europe
 - 7.3.1. EuropeVoice communication control system market, 2017 - 2030
 - 7.3.2. EuropeVoice communication control system market, by component, 2017 - 2030
 - 7.3.3. EuropeVoice communication control system market, by application, 2017 - 2030
 - 7.3.4. EuropeVoice communication control system market, by end-use, 2017 - 2030
 - 7.3.5. U.K.
 - 7.3.5.1. U.K.Voice communication control system market, 2017 - 2030
 - 7.3.5.2. U.K.Voice communication control system market, by component, 2017 - 2030
 - 7.3.5.3. U.K.Voice communication control system market, by application, 2017 - 2030
 - 7.3.5.4. U.K.Voice communication control system market, by end-use, 2017 - 2030
 - 7.3.6. Germany
 - 7.3.6.1. GermanyVoice communication control system market, 2017 - 2030
 - 7.3.6.2. GermanyVoice communication control system market, by component, 2017 - 2030
 - 7.3.6.3. GermanyVoice communication control system market, by application, 2017 - 2030
 - 7.3.6.4. GermanyVoice communication control system market, by end-use, 2017 - 2030
 - 7.3.7. France
 - 7.3.7.1. FranceVoice communication control system market, 2017 - 2030
 - 7.3.7.2. FranceVoice communication control system market, by component, 2017 - 2030
 - 7.3.7.3. FranceVoice communication control system market, by application, 2017 - 2030
 - 7.3.7.4. FranceVoice communication control system market, by end-use, 2017 - 2030
 - 7.3.8. Italy
 - 7.3.8.1. ItalyVoice communication control system market, 2017 - 2030
 - 7.3.8.2. ItalyVoice communication control system market, by component, 2017 - 2030
 - 7.3.8.3. ItalyVoice communication control system market, by application, 2017 - 2030
 - 7.3.8.4. ItalyVoice communication control system market, by end-use, 2017 - 2030

7.4. Asia Pacific

7.4.1. Asia PacificVoice communication control system market, 2017 - 2030

7.4.2. Asia PacificVoice communication control system market, by component, 2017 - 2030

7.4.3. Asia PacificVoice communication control system market, by application, 2017 - 2030

7.4.4. Asia PacificVoice communication control system market, by end-use, 2017 - 2030

7.4.5. China

7.4.5.1. ChinaVoice communication control system market, 2017 - 2030

7.4.5.2. ChinaVoice communication control system market, by component, 2017 - 2030

7.4.5.3. ChinaVoice communication control system market, by application, 2017 - 2030

7.4.5.4. ChinaVoice communication control system market, by end-use, 2017 - 2030

7.4.6. India

7.4.6.1. IndiaVoice communication control system market, 2017 - 2030

7.4.6.2. IndiaVoice communication control system market, by component, 2017 - 2030

7.4.6.3. IndiaVoice communication control system market, by application, 2017 - 2030

7.4.6.4. IndiaVoice communication control system market, by end-use, 2017 - 2030

7.4.7. Japan

7.4.7.1. JapanVoice communication control system market, 2017 - 2030

7.4.7.2. JapanVoice communication control system market, by component, 2017 - 2030

7.4.7.3. JapanVoice communication control system market, by application, 2017 - 2030

7.4.7.4. JapanVoice communication control system market, by end-use, 2017 - 2030

7.4.8. South Korea

7.4.8.1. South KoreaVoice communication control system market, 2017 - 2030

7.4.8.2. South KoreaVoice communication control system market, by component, 2017 - 2030

7.4.8.3. South KoreaVoice communication control system market, by application, 2017 - 2030

7.4.8.4. South KoreaVoice communication control system market, by end-use, 2017 - 2030

7.5. Latin America

7.5.1. Latin AmericaVoice communication control system market, 2017 - 2030

7.5.2. Latin AmericaVoice communication control system market, by component, 2017 - 2030

7.5.3. Latin AmericaVoice communication control system market, by application, 2017 - 2030

7.5.4. Latin AmericaVoice communication control system market, by end-use, 2017 - 2030

7.5.5. Brazil

7.5.5.1. BrazilVoice communication control system market, 2017 - 2030

7.5.5.2. BrazilVoice communication control system market, by component, 2017 - 2030

7.5.5.3. BrazilVoice communication control system market, by application, 2017 - 2030

7.5.5.4. BrazilVoice communication control system market, by end-use, 2017 - 2030

7.6. MEA

7.6.1. MEAVoice communication control system market, 2017 - 2030

7.6.2. MEAVoice communication control system market, by component, 2017 - 2030

7.6.3. MEAVoice communication control system market, by application, 2017 - 2030

7.6.4. MEAVoice communication control system market, by end-use, 2017 - 2030

CHAPTER 8 COMPETITIVE ANALYSIS

8.1. Recent Developments and Impact Analysis, by Key Market Participants

8.2. Company Categorization

8.3. Vendor Landscape

8.3.1. Key company market share analysis, 2021

8.4. Company Analysis Tools

8.4.1. Company market position analysis

8.4.2. Competitive dashboard analysis

CHAPTER 9 COMPETITIVE LANDSCAPE

9.1. Cisco Systems, Inc. S.I.T.T.I. SpACompany overview

9.1.1 Financial performance

9.1.2 Product benchmarking

9.1.3 Strategic initiatives

9.2. Rohde & Schwarz

9.2.1. Company overview

9.2.2. Financial performance

9.2.3. Product benchmarking

- 9.2.4. Strategic initiatives
- 9.3. Copperchase Ltd.
 - 9.3.1. Company overview
 - 9.3.2. Financial performance
 - 9.3.3. Product benchmarking
 - 9.3.4. Strategic initiatives
- 9.4. Thales Group
 - 9.4.1. Company overview
 - 9.4.2. Financial performance
 - 9.4.3. Product benchmarking
 - 9.4.4. Strategic initiatives
- 9.5. Indra Sistemas, S.A.
 - 9.5.1. Company overview
 - 9.5.2. Financial performance
 - 9.5.3. Product benchmarking
 - 9.5.4. Strategic initiatives
- 9.6. Saab AB
 - 9.6.1. Company overview
 - 9.6.2. Financial performance
 - 9.6.3. Product benchmarking
 - 9.6.4. Strategic initiatives
- 9.7. Morocom International Inc.
 - 9.7.1. Company overview
 - 9.7.2. Financial performance
 - 9.7.3. Product benchmarking
 - 9.7.4. Strategic initiatives
- 9.8. Frequentis AG
 - 9.8.1. Company overview
 - 9.8.2. Financial performance
 - 9.8.3. Product benchmarking
 - 9.8.4. Strategic initiatives
- 9.9. L3 Harris Technologies, Inc.
 - 9.9.1. Company overview
 - 9.9.2. Financial performance
 - 9.9.3. Product benchmarking
 - 9.9.4. Strategic initiatives
- 9.10. Applied Electro Magnetics
 - 9.10.1. Company overview
 - 9.10.2. Financial performance

9.10.3. Product benchmarking

9.10.4. Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1. Global Voice communication control system market, by component 2017 - 2030 (USD Million)

Table 2. Voice communication control system market, by hardware, 2017 - 2030 (USD Million)

Table 3. Voice communication control system market, by hardware, by region, 2017 - 2030 (USD Million)

Table 4. Voice communication control system market, by software, 2017 - 2030 (USD Million)

Table 5. Voice communication control system market, by software, by region, 2017 - 2030 (USD Million)

Table 6. Voice communication control system market, by service, 2017 - 2030 (USD Million)

Table 7. Voice communication control system market, by service, by region, 2017 - 2030 (USD Million)

Table 8. Global Voice communication control system market, by application 2017 - 2030 (USD Million)

Table 9. Voice communication control system market for air traffic control, 2017 - 2030 (USD Million)

Table 10. Voice communication control system market for air traffic control, by region, 2017 - 2030 (USD Million)

Table 11. Voice communication control system market for vessel traffic control, 2017 - 2030 (USD Million)

Table 12. Voice communication control system market for vessel traffic control, by region, 2017 - 2030 (USD Million)

Table 13. Voice communication control system market for disaster & emergency management, 2017 - 2030 (USD Million)

Table 14. Voice communication control system market for disaster & emergency management, by region, 2017 - 2030 (USD Million)

Table 15. Voice communication control system market for others, 2017 - 2030 (USD Million)

Table 16. Voice communication control system market for others, by region, 2017 - 2030 (USD Million)

Table 17. Global Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 18. Voice communication control system market by commercial, 2017 - 2030

(USD Million)

Table 19. Voice communication control system market by commercial, by region, 2017 - 2030 (USD Million)

Table 20. Voice communication control system market by defense, 2017 - 2030 (USD Million)

Table 21. Voice communication control system market by defense, by region, 2017 - 2030 (USD Million)

Table 22. North America Voice communication control system market, 2017 - 2030 (USD Million)

Table 23. North America Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 24. North America Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 25. North America Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 26. U.S. Voice communication control system market, 2017 - 2030 (USD Million)

Table 27. U.S. Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 28. U.S. Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 29. U.S. Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 30. Canada Voice communication control system market, 2017 - 2030 (USD Million)

Table 31. Canada Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 32. Canada Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 33. Canada Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 34. Europe Voice communication control system market, 2017 - 2030 (USD Million)

Table 35. Europe Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 36. Europe Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 37. Europe Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 38. U.K. Voice communication control system market, 2017 - 2030 (USD Million)

Table 39. U.K. Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 40. U.K. Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 41. U.K. Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 42. Germany Voice communication control system market, 2017 - 2030 (USD Million)

Table 43. Germany Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 44. Germany Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 45. Germany Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 46. France Voice communication control system market, 2017 - 2030 (USD Million)

Table 47. France Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 48. France Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 49. France Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 50. Italy Voice communication control system market, 2017 - 2030 (USD Million)

Table 51. Italy Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 52. Italy Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 53. Italy Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 54. Asia Pacific Voice communication control system market, 2017 - 2030 (USD Million)

Table 55. Asia Pacific Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 56. Asia Pacific Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 57. Asia Pacific Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 58. China Voice communication control system market, 2017 - 2030 (USD Million)

Table 59. China Voice communication control system market, by component, 2017 -

2030 (USD Million)

Table 60. China Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 61. China Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 62. India Voice communication control system market, 2017 - 2030 (USD Million)

Table 63. India Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 64. India Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 65. India Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 66. Japan Voice communication control system market, 2017 - 2030 (USD Million)

Table 67. Japan Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 68. Japan Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 69. Japan Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 70. South Korea Voice communication control system market, 2017 - 2030 (USD Million)

Table 71. South Korea Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 72. South Korea Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 73. South Korea Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 74. Latin America Voice communication control system market, 2017 - 2030 (USD Million)

Table 75. Latin America Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 76. Latin America Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 77. Latin America Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 78. Brazil Voice communication control system market, 2017 - 2030 (USD Million)

Table 79. Brazil Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 80. Brazil Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 81. Brazil Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

Table 82. MEA Voice communication control system market, 2017 - 2030 (USD Million)

Table 83. MEA Voice communication control system market, by component, 2017 - 2030 (USD Million)

Table 84. MEA Voice communication control system market, by application, 2017 - 2030 (USD Million)

Table 85. MEA Voice communication control system market, by end-use, 2017 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market segmentation and scope
- Fig. 2 Market snapshot
- Fig. 3 Segment snapshot
- Fig. 4 Competitive landscape snapshot
- Fig. 5 Voice communication control system market - Value chain analysis
- Fig. 6 Voice communication control system market - Market dynamics
- Fig. 7 Voice communication control system market - Key market driver impact
- Fig. 8 Voice communication control system market - Key market challenge impact
- Fig. 9 Voice communication control system market - Porter's Five Forces analysis
- Fig. 10 Voice communication control system market - PESTEL analysis
- Fig. 11 Voice communication control system market, by component, 2021
- Fig. 12 Voice communication control system market, by application, 2021
- Fig. 13 Voice communication control system market, by organization size, 2021
- Fig. 14 Voice communication control system market, by end-use, 2021
- Fig. 15 Voice communication control system market, by region, 2021
- Fig. 16 Voice communication control system market - Regional takeaways
- Fig. 17 North America Voice communication control system market - Key takeaways
- Fig. 18 Europe Voice communication control system market - Key takeaways
- Fig. 19 Asia Pacific Voice communication control system market - Key takeaways
- Fig. 20 Latin America Voice communication control system market - Key takeaways
- Fig. 21 MEA Voice communication control system market - Key takeaways

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