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Global V2X Test Scenario Editor Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global V2X Test Scenario Editor market size is predicted to grow from US$ 48.13 million in 2025 to US$ 103 million in 2032; it is expected to grow at a CAGR of 11.6% from 2026 to 2032.

The V2X Test Scenario Editor is a tool or software platform specifically designed to create, edit and manage V2X (Vehicle-to-Everything) test scenarios. It is designed to help developers, testers and researchers simulate and verify the performance and reliability of V2X communication technology in different traffic environments and application scenarios. Through the V2X Test Scenario Editor, users can define the interaction between vehicles, infrastructure, pedestrians, other traffic participants, as well as environmental conditions and event triggering mechanisms to build complex and realistic test scenarios.

Key Findings

DSRC LTE-V2X and Multi-RAT constitute the three defined wireless technology categories for V2X Test Scenario Editor

Map-based API-based and scenario-library-based approaches provide distinct levels of usability automation and engineering flexibility

Desktop simulation laboratory open-loop testing and HIL form a progressive validation chain from virtual development to system-level verification

V2V V2I V2P and V2N requirements drive increasingly reusable dynamic and multi-participant V2X scenario creation

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Market Trends

V2X Test Scenario Editor is developing from relatively static message configuration toward dynamic, geographically aware and highly reusable traffic-scenario orchestration. Modern tools increasingly allow engineers to place virtual vehicles, roadside units and other traffic participants on digital maps, define routes, speeds and events, and automatically translate these scenario elements into protocol-compliant V2X communication. Vector CANoe.Car2x, for example, supports map-based scenario creation with virtual vehicles, infrastructure and ITS stations, with routes, behaviors and events controlled through time and distance parameters, while Keysight WaveBee Creator provides interactive map-based generation of reproducible multi-participant V2X scenarios and supports both DSRC and C-V2X. The second trend is stronger continuity between desktop simulation, laboratory validation and HIL. Scenario assets are increasingly expected to move across different validation stages with limited rework, supporting automated regression and system-level verification. Multi-standard and Multi-RAT requirements are also becoming more important because regional V2X deployments use different communication standards and protocol profiles. ETSI continues to maintain V2X interoperability and access-layer test specifications, including LTE-V2X and newer V2X access technologies, reinforcing demand for scenario editors that can adapt to evolving protocol and test requirements.

Market Dynamics

Drivers

The principal driver for V2X Test Scenario Editor is the growing complexity of connected-vehicle functions and the difficulty of reproducing safety-critical road events consistently through physical road testing alone. V2V, V2I, V2P and V2N applications depend on combinations of vehicle trajectories, position, timing, communication messages, infrastructure states and surrounding traffic participants, creating a large scenario space that must be validated repeatedly during development. Standardized interoperability testing further increases the need for executable and repeatable scenarios. ETSI's V2X interoperability framework is designed around defined test requirements, test purposes and automated test execution, while its C-V2X Plugtests have combined laboratory and field scenarios for device interoperability validation. As V2X functionality becomes more closely integrated with intelligent driving and vehicle control systems, scenario-based validation also expands from communication-function verification toward coordinated system behavior, increasing demand for reusable editing and automation capabilities.

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Restraints

The main restraint is the engineering complexity of creating scenarios that are both realistic and technically correct. A visually plausible traffic scene does not automatically produce a valid V2X test because geographic coordinates, vehicle dynamics, timing, message content, communication range, infrastructure states and protocol behavior must remain synchronized. Differences among regional standards and DSRC, LTE-V2X and Multi-RAT implementations increase configuration requirements, while integration with GNSS simulators, communication emulators, HIL platforms and vehicle networks can raise project cost and deployment effort. Scenario-library-based tools lower the entry barrier for standardized use cases, but customized or edge-case testing often requires API development and deeper protocol expertise. Another constraint is lifecycle maintenance: scenario assets need continuous updates as communication specifications, application definitions and vehicle software change, increasing the importance of version control and long-term compatibility.

Opportunities

The strongest opportunity lies in building reusable scenario assets that can operate across multiple validation environments. Map-based editing lowers the barrier for engineers to describe complex traffic situations, while API-based editing enables large-scale automated scenario generation, parameter sweeps and integration with continuous testing workflows. Scenario libraries create additional value by converting standardized V2X use cases into reusable test templates. Anritsu's LTE-V2X solution combines graphical scenario evaluation, GNSS simulation and a V2X emulator for reproducible laboratory tests, demonstrating how scenario creation can be connected directly with communication validation. HIL represents another important opportunity because communication scenarios can be integrated with vehicle network signals, ECU logic and intelligent-driving models. Beijing Jingwei Hirain Technologies has developed a V2X HIL environment combining scenario simulation, GNSS simulation, C-V2X simulation, vehicle models and automated test scripts, illustrating the transition from stand-alone V2X testing toward integrated vehicle-level validation.

Challenges

A major industry challenge is ensuring consistency between scenario definition and actual communication behavior. V2X Test Scenario Editor must coordinate virtual participant movement, GNSS position, event timing, message triggering and protocol-stack execution with sufficient accuracy to make test results reproducible. HIL environments add real-time constraints because scenario simulation must remain

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synchronized with physical controllers and communication equipment. Interoperability is another challenge: V2X standards and application profiles differ among Europe, North America, China and other markets, while Multi-RAT projects may require one test scenario to generate or evaluate different wireless communication paths. Keysight's current WaveBee platform supports regional standards including ETSI, SAE and C-SAE together with hybrid DSRC and C-V2X operation, illustrating the breadth of compatibility increasingly expected from commercial tools. Suppliers must therefore maintain protocol accuracy, scenario portability, automation interfaces and hardware compatibility while controlling the complexity experienced by test engineers.

Value Chain Analysis

The upstream layer of the V2X Test Scenario Editor value chain consists of digital maps and road-network models, GNSS and positioning technologies, V2X protocol stacks, DSRC and LTE-V2X communication technologies, traffic and vehicle simulation engines, test automation frameworks, software development environments and interface technologies. These elements provide the location, behavior, communication and execution information required to construct a scenario. Standardized application and interoperability specifications also act as important upstream technical inputs because they define expected messages, participant relationships and test purposes. ETSI's V2X interoperability specifications formalize test requirements, test purposes and abstract test suites, providing a standardized basis for converting V2X functions into reproducible validation scenarios.

The midstream layer creates value through scenario modelling, map editing, virtual participant configuration, message and event generation, API interfaces, scenario libraries, execution control and integration with communication emulators or HIL systems. Map-based products emphasize visualization and engineering efficiency; API-based products provide programmability and automation; scenario-library-based products shorten test preparation for recurring or standardized use cases. Downstream users include vehicle manufacturers, automotive electronics developers, V2X equipment developers, infrastructure technology suppliers and testing organizations carrying out V2V, V2I, V2P and V2N validation. Software development, protocol maintenance, scenario content, integration engineering and technical support constitute major value-creation elements, while deeper HIL and laboratory integration can increase project value through hardware interfaces, real-time execution and customized engineering.

Segment Insights

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By wireless communication technology, DSRC remains relevant to established V2X deployments and testing ecosystems, LTE-V2X supports cellular sidelink-based vehicle communication, and Multi-RAT addresses testing environments where different V2X communication technologies or regional technology paths need to coexist. The strategic importance of Multi-RAT lies in allowing scenario logic to remain reusable while the underlying communication mechanism changes. Keysight's WaveBee Creator explicitly supports hybrid DSRC and C-V2X operation and V2X standards for multiple regional ecosystems, illustrating this requirement for cross-technology scenario portability.

By scenario creation method, map-based editing offers intuitive construction of road topology, vehicle movement and traffic events and is particularly useful for functional and application-oriented validation. API-based editing provides stronger automation, parameterization and integration with large test frameworks, making it suitable for repeated regression and large scenario sets. Scenario-library-based tools emphasize rapid reuse of predefined cases and standardized application scenarios. By test environment, desktop simulation provides the lowest-cost environment for early scenario development, laboratory open-loop testing connects scenarios with real V2X communication equipment without requiring complete vehicle feedback, and HIL adds physical controllers and real-time vehicle-system interaction. The three environments therefore support progressively deeper verification across the development lifecycle.

Downstream Market Opportunities

V2V applications require scenario editors to reproduce relative vehicle trajectories, speed differences, braking events and collision-risk relationships; V2I applications introduce traffic signals, RSUs, road events and infrastructure messages; V2P applications add vulnerable road users and their spatial relationships with vehicles; and V2N applications extend validation toward network-connected information and service interactions. These different applications expand the value of parameterized scenario libraries because one base traffic environment can be modified to test multiple participants, event timings and communication conditions. V2X Test Scenario Editor also has increasing relevance to intelligent-driving validation, where communication information can influence perception, decision and control functions. Beijing Jingwei Hirain Technologies' V2X HIL solution integrates virtual traffic participants, V2X communications and vehicle-system simulation, while Keysight positions its scenario editor for vehicle and traffic-infrastructure functional testing as well as HIL and vehicle-in-the-loop integration.

Regional Insights

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Regional demand for V2X Test Scenario Editor is strongly influenced by automotive R&D activity, V2X standard frameworks, connected-infrastructure deployment and vehicle communication technology choices. Europe has a mature C-ITS standards and interoperability-testing framework centered on ETSI specifications, supporting demand for reproducible V2X scenarios across vehicle and infrastructure equipment. North America has an established SAE-oriented V2X application ecosystem, while China combines a large automotive development base with C-SAE-oriented applications and LTE-V2X deployment, creating substantial requirements for localized scenario libraries and communication profiles. Commercial products increasingly address these regional differences through common scenario-generation platforms that support multiple standards; Keysight WaveBee Creator, for example, supports EU, U.S. and China V2X standards within one scenario environment.

Regional differences also affect test-tool integration. Markets with extensive vehicle R&D and certification activities typically require deeper laboratory automation, protocol analysis and HIL integration, whereas infrastructure-oriented projects may emphasize RSU simulation, map-based traffic configuration and interoperability between vehicles and roadside systems. Multi-RAT capability becomes particularly valuable for suppliers serving several regions because the same traffic logic may need to be executed through different communication stacks. Consequently, localized standards support, scenario content, engineering services and compatibility with regional V2X hardware ecosystems remain important factors in competitive positioning.

Competitive Landscape Analysis

The V2X Test Scenario Editor market combines automotive-network simulation specialists, global electronic test and measurement suppliers, V2X communication technology providers and automotive engineering companies. Vector Informatik GmbH competes through the CANoe.Car2x environment, which combines protocol analysis, map-based scenario editing, virtual vehicles and infrastructure, V2X stack execution and extension to closed-loop simulation; this gives it a strong position in development workflows where communication analysis and vehicle-network testing are closely connected. Keysight Technologies, Inc. participates through WaveBee Creator and its broader V2X test and emulation environment, supporting map-based multi-participant scenarios, DSRC and C-V2X hybrid communication, regional standards and laboratory, field and HIL-oriented use cases. ANRITSU CORPORATION provides LTE-V2X PC5 communication testing with graphical scenarios and works with Tata Elxsi Limited's V2X emulator technology to reproduce road-topology-based vehicle scenarios in laboratory environments. Beijing Jingwei Hirain Technologies Co., Inc. contributes vehicle-level

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HIL integration, scenario simulation and automated V2X application testing capabilities. S.E.A. Datentechnik GmbH, Beijing Oriental Jicheng Co., Ltd. and Changchun Shi Jiamu Keji Youxian Gongsi also participate within the defined competitive landscape. Competitive differentiation centers on wireless-technology coverage, usability of map-based editing, API openness, scenario-library depth, protocol fidelity, laboratory and HIL integration, automation capability, regional standards support and the ability to reuse scenarios throughout the V2X development and validation lifecycle.

Report Scope

LPI (LP Information)' newest research report, the “V2X Test Scenario Editor Industry Forecast” looks at past sales and reviews total world V2X Test Scenario Editor sales in 2025, providing a comprehensive analysis by region and market sector of projected V2X Test Scenario Editor sales for 2026 through 2032. With V2X Test Scenario Editor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world V2X Test Scenario Editor industry.

This Insight Report provides a comprehensive analysis of the global V2X Test Scenario Editor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on V2X Test Scenario Editor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global V2X Test Scenario Editor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for V2X Test Scenario Editor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global V2X Test Scenario Editor.

This report presents a comprehensive overview, market shares, and growth opportunities of V2X Test Scenario Editor market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

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Desktop Simulation

Laboratory Open-Loop Testing

HIL Hardware-in-the-Loop

Segmentation by Wireless Communication Technology:

DSRC

LTE-V2X

Multi-RAT

Segmentation by Scenario Creation Method:

Map-based Editing

API-based Editing

Scenario Library-based

Segmentation by Application:

Vehicle-to-Vehicle Communication

Vehicle-to-Infrastructure Communication

Vehicle-to-Person Communication

Vehicle-to-Network Communication

Other

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa

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Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Vector Informatik GmbH

Keysight Technologies, Inc.

S.E.A. Datentechnik GmbH

ANRITSU CORPORATION

Tata Elxsi Limited

Beijing Jingwei Hirain Technologies Co., Inc.

Beijing Oriental Jicheng Co., Ltd.

Changchun Shi Jiamu Keji Youxian Gongsi

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