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US & Japan SCADA system Market Forecast to 2028 - COVID-19 Impact and Countries Analysis by Component (Human-Machine Interface, Programmable Logic Controller, Remote Terminal Unit, and Communication Systems), SCADA Architecture (Hardware and Software), and Industry (Chemicals, Transportation, Food & Beverage, Oil & Gas, Marine, Power Generation, Manufacturing, and Others)

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Abstracts

The US SCADA system market was valued at US$ 6,170.50 million in 2022 and is projected to reach US$ 9,050.86 million by 2028; it is estimated to grow at a CAGR of 6.6% during the forecast period. The Japan SCADA System market was valued at US$ 1,882.24 million in 2022 and is projected to reach US$ 3,092.34 million by 2028; it is estimated to grow at a CAGR of 8.6% during the forecast period.

Like all modern technologies, the standards for SCADA software and hardware are rapidly evolving. Technological advancements in SCADA systems are expanding the range of, both, systems and monitoring methods available. A few of the latest/ongoing advancements related to SCADA systems or their applications are mentioned below.

Subscription/Flex Licensing: Traditionally, municipal water and wastewater systems had to purchase SCADA software, and high purchase costs and limited budgets made it difficult for them to opt for necessary upgrades. On the contrary, many SCADA companies now offer subscription and flex licensing options, allowing utilities to lease SCADA software licenses at a fraction of the purchase cost.

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High-Performance HMI: High-performance HMIs allow for pre-attentive processing and improves situational awareness. With gradual improvements, these HMIs choose to optimize process areas where better graphics make the most sense, alongside allowing for a more consistent SCADA application.

Virtualization: Virtualization servers allow a single computer to run multiple operating systems at the same time. It reduces capital and operating costs; creates more streamlined systems; allows for system redundancy; minimizes or eliminates downtime; and increases IT productivity, efficiency, agility, and responsiveness.

Such advancements in SCADA systems are bringing significant trends in the US and Japan SCADA system market.

The US and Japan SCADA system market is segmented on the basis of component, SCADA architecture, and industry. Based on component, the SCADA system market is categorized into human-machine interface, programmable logic controller, remote terminal unit, and communication system. In terms of SCADA architecture, the market is bifurcated into software and hardware. By industry, the US and Japan SCADA system market is segmented into chemicals, transportation, food & beverages, oil & gas, marine, power generation, manufacturing, and others. ABB Ltd, General Electric Co, Yokogawa Electric Corp, Hitachi Ltd, Fuji Electric Co Ltd, Honeywell International Inc, Rockwell Automation Inc, Mitsubishi Electric Corp, Emerson Electric Co, Siemens AG, Schneider Electric SE, and Inductive Automation LLC are among the key players operating in the SCADA system market. Various other companies are also operating in the market, and they are coming up with advanced technologies and offerings to contribute to the market proliferation. In addition, several other important companies have been studied and analyzed during this research study to get a holistic view of the ecosystem.

Manufacturing industries play an essential role in the economic and socioeconomic development of any country. Moreover, the continuous growth of manufacturing industries drives industrialization, which subsequently leads to urbanization in many countries. SCADA systems are commonly used in manufacturing industries; they are an integral component in virtually all industrial plants and production facilities. The system composes hardware and software components used to monitor and control industrial processes. SCADA systems allow manufacturers to collect and analyze real-time production data, monitor and manage alarms, and program automatic control responses that are triggered by certain events or system parameters. The remote monitoring ability of SCADA systems helps manufacturing industries keep a keen eye on their processes

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in areas that are inaccessible or harmful for manual operations. A SCADA system controls a whole manufacturing plant operation, ensuring all systems run smoothly and productivity targets are met.

The US & Japan SCADA system market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the US & Japan SCADA system market. Primary interviews were conducted with industry participants and commentators to validate data and gain more analytical insights into the US & Japan SCADA system market. The participants of this process include industry experts such as VPs; business development managers; market intelligence managers; national sales managers; and external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the US & Japan SCADA system market. A few of the major players operating in the US & Japan SCADA system market are ABB Ltd, General Electric Co, Yokogawa Electric Corp, Hitachi Ltd, Fuji Electric Co Ltd, Honeywell International Inc, Rockwell Automation Inc, Mitsubishi Electric Corp, Emerson Electric Co, Siemens AG, Schneider Electric SE, and Inductive Automation LLC.

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