

Domestic Substitution of Network Security Equipment



Overview

Domestic substitution develops indigenous semiconductor capabilities, reducing foreign technology dependence. Efforts span research through commercialization, requiring investment, talent, and ecosystem building. Within the framework of the federal standard, "Network and System Administration" direction is. Export controls operate through entity lists, technology licensing requirements, and end-use restrictions. EDA controls focus on advanced nodes, particularly software for chips at 14nm and. In recent years, "domestic substitution" has evolved beyond a temporary slogan during supply chain tensions, becoming a deeply ingrained strategic consideration in industries like coatings, inks, and adhesives. China has been focusing on replacing computer equipment, and the telecom and financial sectors are likely to be the next targets. China has stepped up. In recent years, countries such as the United States have attempted to restrict the advanced chip manufacturing capabilities of the Chinese mainland, shifting from limiting the export of advanced semiconductor equipment to the Chinese mainland over the past few years to including multiple domestic. The domestic substitution of the IC (the Integrated Circuit) industry improves economic efficiency and is significant in ensuring national security, which has gradually become an essential strategy for countries worldwide.

Article Content

Domestic Substitution in Supply Chain Security: A Necessary Backup ...

The wave of domestic substitution has arrived—it presents both challenges and opportunities to reshape the industry landscape. Whether we view it as a “backup option” or embrace ...

Export Controls & Domestic Substitution in EDA Equipment

Comprehensive analysis of semiconductor export controls affecting EDA, IP, and equipment, plus domestic substitution strategies for supply chain resilience.

Domestic Substitution (in Technology): A Detailed Explanation of ...

Given their relatively high technical complexity, the domestic market is still dominated by overseas manufacturers, with MKS (USA) as a representative, indicating significant potential for ...

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Provide a procedure to limit previously granted authorizations of covered equipment to prohibit the continued importation and marketing of such equipment, without limiting continued operation or use. ...

chinese tech: China rushes to swap Western tech with domestic ...

China is increasing its spending on domestic technology to replace Western-made products as the US tightens restrictions on high-tech exports. China has been focusing on replacing ...

What is localization substitution? Why do we need to carry out ...

We focus on domestic production and domestic substitution of imported products. We are a high-tech enterprise mainly engaged in the research and development of high-temperature resistant Hall ...

Domestic substitution and supply chain performance: The impact of ...

We formulate the interactions among the domestic supplier's R& D and pricing strategies, the manufacturer's domestic substitution, and the government subsidies, analyzing the effects of T S ...

Application of "Eltex" and "EcoRouter" domestic network equipment ...

The authors of the article consider key criteria for selecting network equipment – fault tolerance, availability and security – taking into account business and regulatory requirements.

China's Strategic Countermeasure Opens a Window for a Domestic ...

The window for a domestic substitution strategy has opened. China plans to promote domestic substitution from multiple dimensions from the central government to local governments ...

Collaborative Innovation Strategy of Supply Chain in the Context of ...

To summarize, this study will study the problem of MCU domestic substitution by establishing a differential game model of collaborative innovation in a three-level supply chain consisting of ...

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