gíz



Sino-German Cooperation on Industrie 4.0

Overview of Cybersecurity Landscape for Industrie 4.0

Policy Landscape | November 2021

Central Authorities

The Communist Party of China (CPC)

Standing Committee of the National People's Congress

Central Cyberspace Affairs Commission

State Council

The State Council is the highest administrative entity of China and not an organisation of the CPC.

National Security Commission of the Communist Party of China

Office of the Central Cyberspace Affairs Commission

Cyberspace Administration of China

Administrative Regulations (State Council)

State Council

Develops administrative regulations related to cybersecurity



Sectoral Regulatory Implementation (Ministries and Commissions)



Technical Guidelines, Standards and Implementation (other

institutions)





National Administration for the Protection of State Secrets

Judicial Authorities

State Cryptography Administration

Procuratorial Organs









Industry Authorities

(the National Development and Reform Commission, the Ministry of Commerce, the People's Bank of China, the National Medical Products Administration, etc.)



Local/Regional Entities

Third Parties

(the China Cybersecurity Review Technology and Certification Centre, the China Certification & Inspection Group, etc.)

Sino-German Cooperation on Industrie 4.0

Overview of Cybersecurity Landscape for Industrie 4.0

Policy Landscape | November 2021



Central **Authorities**

The Communist Party of China (CPC)

The party leads the legislative body in the enactment of the law and the enforcement agencies in the implementation of the law

Standing Committee of the National People's Congress

Enacts laws; Supervises work related to law implementation; Promotes the comprehensive and effective implementation of the law through law enforcement inspections

Central Cyberspace Affairs Commission

State Council

National Security Commission of the Communist Party of China

Office of the Central Cyberspace Affairs Commission

Cyberspace Administration of China

The Office of the Central Cyberspace Affairs Commission, which was established in March 2018, is an administrative office of the Cyberspace Administration of China and is directly affiliated to the Central Committee of the Communist Party of China.

The Cyberspace Administration of China, which was established in May 2011, is an administrative office of the State Council.

According to the Circular of the State Council on the Setup of Institutions issued by the State Council in March 2018, the Cyberspace Administration of China and the Office of the Central Cyberspace Affairs Commission are the same institution in fact but are hung with two different signboards. These two departments are listed as bodies directly affiliated to the Central Committee of the Communist Party of China.

National Security Commission of the Communist Party of China, which was established in November 2011, is an affiliate of the Central Committee of the Communist Party of China.

As a decision-making, counsel and coordination institution of the Central Committee of the Communist Party of China on national security,

the National Security Commission of the Communist Party of China is responsible to the Political Bureau of the Communist Party of China and the Standing Committee of the Political Bureau of the Communist Party of China, and is responsible for coordinating major matters and key work regarding national security.

Coordinates cybersecurity work and related supervisory, management and evaluation tasks

Leads to establish a cybersecurity review working mechanism of the country

Is responsible for the decision-making, deliberation and coordination in respect of data security work, and for researching, formulating, and guiding the implementation of national data security strategies and related significant guidelines and policies

Supervises and manages network information security

Coordinates the establishment of cybersecurity risk assessments and emergency work mechanisms, formulates contingency plans for cybersecurity

Organizes national security reviews of network products and services

Coordinates major matters and key work regarding national data security and establishes a national data security coordination

Develops and publishes a catalogue for critical network equipment and special network security products

Coordinates the collection, analysis and notification of cybersecurity information

Coordinates network data security protection and related supervision and administration tasks; Coordinates the security assessment of cross-border data

Coordinates personal information protection and related supervision and administration tasks; Coordinates the security assessment of cross-border personal information transfers

Coordinates the security protection of critical information infrastructure

Coordinates safety assessment for internet information services capable of creating public opinions or social mobilization

Coordinates relevant departments in formulating the catalogues for important data and strengthening the protection of important

Establishes a long-term mechanism of departmental coordination, performs regulatory responsibilities and jointly carries out algorithm security governance with other departments

Coordinates relevant departments in strengthening their work in the collection, analysis, determination, and early warning of the data security risk information

Administrative Regulations (State Council)

Sectoral

Regulatory

Implementation

(Ministries and

Commissions)

Technical

Guidelines,

Standards and

Implementation

(other

institutions)

State Council

Develops administrative regulations related to cybersecurity



Manages the approval of telecommunication service business licenses

Supervises and manages the country's domain name services

Supervises and manages information and communication services, including

Security protection of telecommunication networks and internet networks

ormulates plans, policies and standards for the network and information security of and organizes their implementation

Supervises and administers Industrial Internet identification services within the

Is responsible for the comprehensive management of network product security vulnerabilities, and responsible for the supervision and management of network product security vulnerabilities in the telecommunications and internet industries

ormulates norms for classification and grading system of industrial data, guides and coordinates the industrial data classification and grading work

Formulates and organizes the implementation of policies, norms and standards for

the security management of telecommunications networks and internet data

Develops national and industry standards for cybersecurity management and network products

Is responsible for multi-level protection scheme (MLPS)

Is responsible for public and national security-related cybersecurity issues and criminal cases

Is responsible for security protection of networks

Assesses and approves network security-specific product licenses and testing institutes for safety functions and safety products

Formulates regulations on personal information security

Is responsible for the supervision and inspection of internet security by public security organs

onducts safety assessments for internet information services capable of creating public opinions

or social mobilization

Guides and oversees the security protection of critical information infrastructure

Supervises and regulates security vulnerabilities in network products, and legally crack down on

illegal and criminal activities carried out by exploiting any security vulnerability in a network

product

Develops national and industry standards in the fields of industrial process measurement contro

National Administration for the Protection of State Secrets

Supervises, inspects and guides multi-level protection related to

State Cryptography Administration

Is responsible for the supervision and management of cybersecurity classified protection works related to cryptography management

Exercises unified leadership over the nationwide cryptography work, rmulates major principles and policies for the state cryptography wor coordinates major matters and important tasks relating to state cryptography

Establishes core-cryptography-and-common-cryptography-related coordination mechanisms in conjunction with relevant departments based on the needs of work, conducts security surveillance and alert, curity risks assessment, information reporting, critical issue consultation

Organizes the formulation of national and industrial standards for Commercial Cryptography

Identifies the institutions that use commercial cryptography technology to engage in e-government e-authentication services

Establishes an in-process and post event supervision system for commercial cryptography combining daily supervision and random spection, and establishes a unified information platform for commerc cryptography supervision and management

Judicial Authorities

Trial of civil cases involving infringement of citizens' personal information

Hears criminal cases involving the infringement of personal information of citizens and refusal to perform information network security management obligations

Procuratorial Organs

andles cyber crime cases endangering citizens' personal informatio and cyber security

Brings lawsuits to the court for cases that infringe on the personal information rights and interests of many individuals



services and operational safety



Manages national standardisation work



Manages, supervises and coordinates national certification and

Industry Authorities

(the National Development and Reform Commission, the Ministry of Commerce, the People's Bank of China, the National Medical Products Administration, etc.)

Guide and supervise critical information infrastructure security protection in specific industries

Organize and conduct the security review of network products and services in specific industries

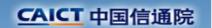
Manage IT security in specific industries

Undertake the data security supervision responsibilities of the specific industry and field

According to the data classification and grading protection system, determine the specific directory of important data in the specific region, department and relevant industries and fields, and focus on the protection of the data listed in the directory

Are responsible for the protection, supervision and management of personal information in the specific

Subordinate Organisations



upports MIIT in the development and implementation of policies on cybersecurity tasks in ICT; certification body for critical network equipment

中国信息安全认证中心

Implementation of information security certification

Local/Regional Entities

Each Province or Municipality has its local or regional organization responsible for data protection, for example the Department of Industry and Information Technology of Jiangsu Province or the Beijing Municipal Bureau of Economy and Information Technology.

The local legislative or administrative entities also have the right to promulgate administrative regulations on data protection, for example the "Regulations on Promoting the Development of Big Data of Shandong Province", the Regulations on Promoting the Development of Intelligent Manufacturing of Tianjin Municipality" or the "Detailed Rules for" the Implementation of Scientific Data Management in Jiangsu Province'

Third Parties

(the China Cybersecurity Review Technology and Certification Centre, the China Certification & Inspection Group, etc.)

Undertake third party evaluation in the cybersecurity review

valuate the information system security level under the entrustment of the operation and use units of the information system or its competent department

> Carry out security certification services for critical network equipment and special network security products

Carry out data security detection, evaluation, certification and other services

Undertake personal information protection assessment, certification, audit and other



You can find this Cybersecurity Landscape as well as our other policy products in our **Download Area**. As always, we welcome your comments and suggestions. Your feedback to info@i40-china.org is highly appreciated. More information about the Sino-German Industrie 4.0 Cooperation can be found on our Project Website www.industrie40china.org.





Sino-German Cooperation on Industrie 4.0

Cybersecurity Responsibilities and Regulations

Policy Landscape | November 2021

Ministry of Industry and Information

Technology

(MIIT)

Legal basis for Manages the approval of telecommunications business operation licenses Administrative Measures for Internet Domain Name responsibilities Legal basis for Administrative Measures for the Licensing of Telecommunications Supervises and manages the country's domain name services responsibilities **Business Operations** Supervises telecommunication, internet and other information communication Formulates rules Measures for Supervision and Administration of Telecom Network Operation services Incidents Plan for Emergent Cybersecurity Incidents on the Public Internet Security protection of telecommunication networks and internet networks Formulates rules Emergency Management Guide for Information Security Incidents in Industrial Control Systems Critical Information Infrastructure Identification Guidelines (under formulation)* Catalogue on Critical Network Equipment and Specialised Network Security Products (First Batch) Formulates plans, policies and standards for the network and information security of telecommunication networks, the Industrial Internet and industrial Formulates rules control systems, and organizes their implementation Guidance on the Building of the Framework of Data Security Standards in the Telecommunications and Internet Sectors Administrative Measures for Data Security in the Field of Industry and Information Technology (for Trial Implementation) (Draft for Comment) Supervises and administers Industrial Internet identification services within the Administrative Measures for Industrial Internet identification Formulates rules territory Administrative Provisions on Security Vulnerabilities in Network Products Administrates of security vulnerabilities of cyber products and undertakes the supervision and administration of security vulnerabilities of cyber products in Formulates rules the telecommunications and Internet industries Administrative Measures for Record-filing of the Platforms for Collection of Security Vulnerabilities in Network Products (Draft for Comment) Formulates norms for classification and grading system of industrial data, Formulates rules Guidance on Classification and Grading of Industrial Data (for Trial Implementation) guides and coordinates the industrial data classification and grading work Formulates and organizes the implementation of policies, norms and standards for the security management of telecommunications networks and Internet data

^{*} Regulations with relevance for cross-border data transfer, critical infrastructure, personal data, and industrial/important data are highlighted in bold





		Legal bases for responsibilities	Cyberse	curity Law, Article 8
Coordinates cybersecurity work and related supvervisory, management and		& Formulates rules	Regulations on Cybersecurity Multi	i-level Protection (Draft for Comment) , Article 5
evaluation tasks		Formulates rules	National Cyb	erspace Security Strategy
Leads to establish a cybersecurity review working mechanism of the country		Legal bases for responsibilities	Cybersecurity Review Measures, and Cybe	ersecurity Review Measures (Revised Draft for Comment)
,		& Formulates rules	Cybersecur	rity Law, Articles 50 & 68
		Legal bases for responsibilities	Regulations on Internet Content Managemen	t Administration Law Enforcement Procedures, Articles 2&4
			Provisions on the Ecological Go	overnance of Network Information Contents
			Provisions on Internet	-based News Information Services
Supervises and manages network information security			Implementing Rules on the Lice	ensing of Internet News Information Services
		5 1	Administrative Provisions	s on Internet Post Comments Services
		Formulates rules	Administrative Provisions of	on Internet Forum Community Services
			Administrative Provisions	on Internet Group Information Services
			Administrative Provision on Inter	rnet User Public Account Information Services
		I a mal la contra form	Administrative Measures for Internet	Information Services (Revised Draft for Comment)
		Legal basis for responsibilities	Cybersec	curity Law, Article 53
Coordinates the establishment of cybersecurity risk assessments and emergency work mechanisms, formulates contingency plans for cybersecurity incidences			Emergency Plan for N	lational Network Security Incidents
work medianisms, formulates contingency plans for cybersecurity includences		Formulates rules	Administrative Provisions on S	Security Vulnerabilities in Network Products
			Administrative Measures for the Release of In	nformation on Cyber Security Threats (Draft for Comment)
		Legal bases for	Cybersec	curity Law, Article 35
Organizes national security reviews of network products and services		responsibilities	Security Review Measures for Network	Products and Services trial implementation), Article 5
		Legal basis for responsibilities	Cybersec	curity Law, Article 23
Develops and publishes a catalogue for critical network equipment and special network security products		Formulates rules	Catalogue on Critical Network Equipment	and Specialised Network Security Products (First Batch)
		1 officiales rules	Notice on the Publication of the Directory of Internet Ke	ey Equipment and Cybersecurity-specific Product Safety Certifications est Mechanisms (First Batch)
Coordinates the collection, analysis and notification of cybersecurity information		Legal basis for responsibilities	·	curity Law, Article 51
		Legal bases for responsibilities	Cybersecurity Law, Article 37	Measures for Security Assessment of Cross-border Transfer of D.
			Data Security Law, Article 24	(Draft for Comment)
Coordinates network data security protection and related supervision and administration tasks; Coordinates the security assessment of cross-border data			Personal Information Protection Law, Article 40	Administrative Measures for Data Security (Draft for Commen
transfers		Formulates rules		Measures for Security Assessment of Cross-border Transfer of Personal Information and Important Data (Call for Comments
		Legal basis for	Descend Information Posts time Law 4 to 1, 40,50,50	
Coordinates personal information protection and related supervision and administration tasks; Coordinates the security assessment of cross-border		responsibilities	Personal Information Protection Law, Articles 40, 60, 62	Measures for Security Assessment of Cross-border Transfer of D (Draft for Comment)
personal information transfers		Formulates rules		Provisions on the Cyber Protection of Personal Information of Chil
		Legal basis for responsibilities	Telecommunications Regulations, Articles 27-30	Measures for Security Assessment for Cross-border Transfer of Personal Information (Draft for Comment)
Coordinates the security protection of critical information infrastructure			Guidelines for the Operation	on of National Cybersecurity Inspections
		Formulates rules	Critical Information Infrastructure	e Identification Guidelines (under formulation)
			Regulations on the Security Pro	otection of Critical Information Infrastructure
			Regulations on the security in	
Coordinates safety assessment for internet information services capable of creating public opinions or social mobilization		Formulates rules	<u> </u>	ion Services Capable of Creating Public Opinions or Social Mobilization

Cyberspace Administration of China (CAC)





		Administrative Measures for Cyber Security Graded Protection Assessment Agencies
Is responsible for multi-level protection scheme (MLPS)		Cybersecurity Law, Articles 21&59 Paragraph 1
is responsible for main level protection seneme (WEI 3)		Guidance on the Implementation of Cyber Security Graded Protection System and Critical Information Infrastructure Security Protection System
		Regulations on Cybersecurity Multi-level Protection (Draft for Comment), Article 5
Is responsible for public and national security-related cybersecurity issues and		Provisions on the Supervision and Inspection of Internet Security by Public Security Organs
criminal cases		Cybersecurity Law, Articles 46, 56, 63-64, 67
		Computer Information System Security Protection Regulations, Article 6
Is responsible for security protection of networks		Administrative Provisions on Security Vulnerabilities in Network Products
Assesses and approves network security-specific product licenses and testing		Computer Information System Security Protection Regulations, Article 16
institutes for safety functions and safety products		Administrative Measures for Inspection and Sales Licenses of Special Products for Computer Information System Security, Article 3
Formulates regulations on personal information security		Guidance on the Protection of the Security of Internet Personal Information
Is responsible for the registration for international connections of computer information networks		Administrative Measures for the Protection of International Networking Security of Computer Information Network, Article 12
Is responsible for the supervision and inspection of internet security by public		Provisions on the Supervision and Inspection of Internet Security by Public Security Organs, Article 2
security organs		Measures for Cybersecurity Reviews (Revised Draft for Comment)
Conducts safety assessment for internet information services capable of creating public opinions or social mobilization		Provisions on the Safety Assessment for Internet Information Services Capable of Creating Public Opinions or Social Mobilization, Article14
Guides and oversees the security protection of critical information infrastructure		Regulations on the Security Protection of Critical Information Infrastructure, Article 3
		Guidance on the implementation of cyber security graded protection system and Critical Information Infrastructure security protection system

Ministry of Public Security (MPS)

National
Information
Security
Standardization
Technical
Committee/
TC260

Develops national and industry standards about cybersecurity (including network products and services), data protection and personal information protection





Information security technology - Implementation guide for classified protection of cybersecurity
Information security technology - Classification guide for classified protection of cybersecurity
Information security technology - Testing and evaluation process guide for classified protection of cybersecurity
Information security technology - Testing and evaluation technical guide for classified cybersecurity protection
Information security technology - Technical requirements of security design for classified protection of cybersecurity
Information security technology - Baseline for classified protection of cybersecurity
Information security technology - General security requirements of network products and services
Information security technology - General requirements for security of Internet information services
Information security technology - Guide to security inspection and evaluation of critical information infrastructure (Draft for Comment)
Information security technology - Indicator system of critical information infrastructure security assurance (Draft for Comment)
Information security technology - Basic requirements for cybersecurity protection of critical information infrastructure (Draft for Comment)
Information security technology - Security controls of critical information infrastructure (Draft for Comment)
Information security technology - Method of boundary identification for critical information infrastructure (Draft for Comment)
Information security technology - The evaluation method for security protection capability of critical information infrastructure (Draft for Comment)
Information security technology - Specification for cybersecurity vulnerability management
Information security technology - Guidelines for categorization and classification of cybersecurity vulnerability
Information security technology - Guide for cybersecurity incident emergency exercises
Information security technology - Risk assessment specification for information security (Draft for Comment)
Information security technology - Guidelines for information security risk management (Draft for Comment)
Information security technology - The assessment method for security capability of cloud computing service
Information security technology - Cyber-data process security specification (Draft for Comment)
Information security technology - Security requirements for data transaction services
Information security technology - Big data security management guide
Information security technology - Security capability requirements for big data services
Information security technology - Data security capability maturity model
Information security technology - Guidelines for data cross-border transfer security assessment (Draft for Comment)
Information security technology - Identification guide of key data (Draft for Comment)
Information security technology - Personal information security specification
Information security technology - Guideline for personal information protection within information system for public and commercial services
Information security technology - Guide for de-identifying personal information
Information security technology - Guidance for personal information security impact assessment
Information security technology - Guidelines for personal information notices and consent (Draft for Comment)
Information security technology - Guidelines for Personal information security engineering (Draft for Comment)
Information Security Technology - Guideline for Personal Information Cross-Border Transfer Security Assessment (Draft for Comment)



Develops national and industry standards in the fields of industrial process measurement control and automation

National Administration for the Protection of State Secrets

Supervises, inspects and guides multi-level protection related to confidentiality





Mechanical counter

Technical requirements and test methods of insulation resistance and insulating strength for use in industrial process measurement and control instruments

Panel, cabinet, console and case for industrial-process measurement and control equipment

Process detection and controlflow chart - Symbols and letter codes

Industrial control system security - Part 1: Assessment specification

Industrial control system security - Part 2: Acceptance specification

Industrial communication networks - Network and system security - System security requirements and security levels

Evaluation specification for security in industrial control network

Security for industrial process measurement and control - Network and system security

Industrial communication networks - Network and system security - Terminology, concepts and models

Industrial communication networks - Network and system security - Security technologies for industrial automation and control system

Cybersecurity Review Measures, Article 4

Administrative Measures for Information Security Multi-level Protection, Article 3

Regulations on Cybersecurity Multi-level Protection (Draft for Comments), Article 5





Computer Information System Security Protection Regulations Commercial Cryptography Regulations and Commercial Cryptography Regulations (Revised Draft for Comment) Develops administrative regulations related to the security of data and networks State Council Formulates rules Regulations on Critical Information Infrastructure Protection Administrative Measures on Internet Information Services and Administrative Measures on Internet Information Services (Revised Draft for Comment) Regulations on Cybersecurity Multi-level Protection (Draft for Comments) Cryptography Law, Article 5 Cybersecurity Review Measures, Article 4 Legal bases for responsibilities Commercial Cryptography Regulations, Article 4 Participates in the establishment of cybersecurity review mechanism, and is responsible for the supervision and management of cybersecurity classified protection works related to cryptography State Regulations on Cybersecurity Multi-level Protection (Draft for Comments), Article 5 Cryptography Administration management Administrative Measures for Information Security Multi-level Protection Formulates rules Information Security Technology: Basic Requirements for Information System Password Application

Table 1: Abbreviations

缩写	中文名称	英文名称
NSC	中共中央国家安全委员会	National Security Commission of the Communist Party of China
MIIT	中华人民共和国工业和信息化部	Ministry of Industry and Information Technology
CAC	中共中央网络安全和信息化委员会办公室	Cyberspace Administration of China
MPS	中华人民共和国公安部	Ministry of Public Security
SAC	中华人民共和国国家标准化管理委员会	Standardization Administration of the People's Republic of China
CNCA	中国国家认证认可监督管理委员会	Certification and Accreditation Administration of the People's Republic of China
SAC/TC124	全国工业过程测量控制和自动化标准化技术委员会	National TC124 on Industrial Process Measurement, Control and Automation of SAC
TC260	全国信息安全标准化技术委员会	National Information Security Standardization Technical Committee
ISCCC	中国信息安全认证中心	China Information Security Certification Center
CAICT	中国信息通信研究院	China Academy of Information and Communications Technology

Table 2: Glossary

中文术语词汇	英文术语词汇	
国家安全审查	national security review	
网络安全审查	cybersecurity review	
网络安全事件	network security incident	
等级保护测评	classified security testing and evaluation	
关键信息基础设施	critical information infrastructure	
网络产品和服务提供者	network products and services provider	
网络关键设备和网络安全专用产品	critical network equipment and special network security products	
数据出境	cross-border data transfer	
国家核心数据	core data of the state	
重要数据	important data	
数据安全风险评估	data security risk assessment	
数据出境安全评估	security assessment of cross-border data transfer	
个人信息	personal information	
敏感个人信息	sensitive personal information	
个人信息安全影响评估	personal information security impact assessment	





You can find this Cybersecurity Rules and Regulations Overview as well as our other policy products in our <u>Download Area</u>. As always, we welcome your comments and suggestions. Your feedback to <u>info@i40-china.org</u> is highly appreciated. More information about the Sino-German Industrie 4.0 Cooperation can be found on our Project Website <u>www.industrie40-china.org</u>.