OT CNI Supply Chain Standards

Key Standards

Many of the standards identified as being most used are inter-related. NIST SP800-161 r1 can be used by organisations for identifying, assessing, and mitigating cybersecurity risks throughout the supply chain at all levels of their organizations. Controls are provided by NIST SP800-53r5/B and where already existing these can also provide evidence of compliance. Similarly, proofs required for ISO27001 and IEC62443 can be used for NIST SP800-161 compliance. Many standards are available at no cost, those with licence fees are denoted in blue.



CORE

5 Core standards

PROVIDE CONTROLS

FOOD SECTOR

<u>IEC 61511 & IEC61508</u> <u>PAS96</u>



NIST SP800-53r5

Controls for Federal

Information Systems and

Organizations

Security and Privacy NIST SP800-82r2

Guide to Industrial Control
Systems (ICS) Security



NERC CIP 013-1
IEC61850+IEC62351,
HSE OG86/Ofgem Guidance



Cybersecurity Supply Chain
Risk Management Practices
for Systems and
Organisations



ISO27001

Information Security Management

IEC62443

Security for Industrial Automation and Control Systems

and CAN BE USED AS EVIDENCE

TRANSPORT SECTOR

CENELEC TS 50701
DO-326/ED-202/ED-203
IMO MSC-FAL.1/Circ.3
SAE J3061 & SAE J3101

ASSURANCE

UK NCSC Cyber Assessment Framework (A4 Supply Chain)

<u>ISO/IEC 15408-1:2009</u> – Evaluation Techniques <u>ISO/IEC 17025:2017</u> – Test Lab Standards

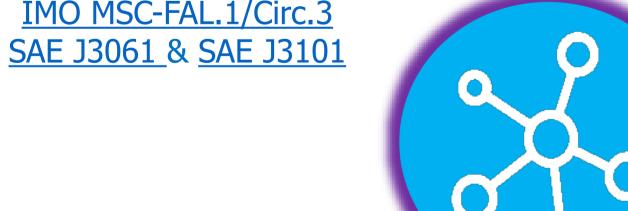
National Defense Industrial Association (NDIA) Engineering for System Assurance

OWASP Software Assurance Maturity Model (SAMM) Version 2.0

SAFECode, Software Integrity Controls

SSAE 18 SOC2/SOC 3 Reports

NIST NISTIR7622 - Notional Supply Chain risk management practices



FACILITIES/ MANUFACTURING SECTOR

ETSI TS 303 645 V2.1

IoT Security Foundation

Compliance Framework

Facility Cybersecurity Framework

Best Practices –osti.gov

Please note that in the context of OT supply chain Emergency, Finance and Government are included in the IoT/BMS domain



CHEMICAL SECTOR

WATER SECTOR

ANSI/AWWA G430-09/"Security Practices

for Operations and Management"

Chemical Facility Anti-Terrorism Standards
HSE OG86



HEALTH SECTOR

MHRA/EMA GLP & GMP

MHRA IoMT Guidance

Produced by the NCSC ICS Community of Interest Supply Chain Expert Group (SCEG)

OT Supply Chain Cyber Security Assurance Standards for Critical National Infrastructure

An Infographic Introduction and Guide

Draft Version 1.7, 22nd June 2023

This Infographic and set of supporting materials has been created by the NCSC ICS COI Supply Chain Expert Group (SCEG) to assist supplier and customer organisations to understand which reference standards used in supply chain cyber security assurance are seen as the most important for all sectors and also which are the most relevant for specific sectors. The priority and importance has been drawn from our own experience in practice and recognises that some national standards have international influence in the supply chain. We have not covered defence or civil nuclear because of the special requirements of these sectors.

This is a work in progress and is still under development. It has been made available as early as possible in the hope that it is of immediate value, and to ask for comments and feedback on how it can be enhanced and improved. The next version will have more details on the different aspects of 'combined' sectors such as energy and transportation where there are more specific standards for different parts of the sector (e.g. road, rail, maritime, aviation). Comments can be sent to paul.dorey@rhul.ac.uk. and to https://forms.gle/AczjgMVQ3FvHD9jb8

NCSC ICS Community of Interest Supply Chain Expert Group (SCEG)

The SCEG is a volunteer initiative to progress multiple-sector wide approaches to the challenge of overseeing, managing and influencing the cyber security of supply chains to critical infrastructure services. Co-Led by Paul Dorey (Royal Holloway) and Tania Wallis (Glasgow University) the group has membership of experienced experts from different sectors and parts of the supply chain.

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