



Cyber Security Requirements - UK EU USA

Michael Derby

27 March 2024

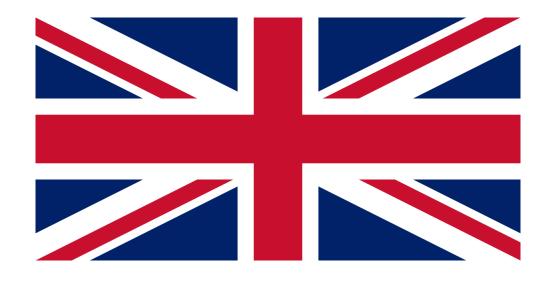
Agenda

Cyber for UK

Cyber for EU

Cyber for USA







- PSTI (Cyber Security) for UK
 - Product Security and Telecoms Infrastructure
 - https://www.gov.uk/government/publications/the-uk-product-security-and-telecommunications-infrastructure-product-security-regime
 - Applies to connected consumer IoT into UK
 - From 29 April 2024
 - · Wireless and wired
 - Internet connected
 - Networked





- Cyber Security for UK (PSTI):
 - Based on selected parts of EN 303 645
 - Unique password for each unit
 - Process for user to inform manufacturer about cyber security issue
 - Manufacturer procedure to fix security issue





- Cyber Security for UK (PSTI):
 - Statement of compliance with each product
 - Manufacturer to sign the statement (like DoC)
 - Manufacturer to state product support period
 - All connected devices entering the UK
 - Including existing models





- Cyber Security for UK (PSTI):
 - Not linked to UKCA (or CE) marking

Very different to EU Cyber requirements





The European Union (EU)





EU RED

- Radio Equipment Directive
 - RED
- Directive 2014/53/EU
- Radio equipment into the EU
 - Radio / wireless





EU RED



Technical assessment of equipment to essential requirements



Authorization route: Declaration of Conformity (DoC)



Harmonised Standards

Harmonised
Test Standards
Listed on
RED OJEU

Published by the standards group Accepted by the EU Commission

Official Journal of Harmonised Standards "Presumption of Conformity" (PoC)

No Harmonised Standard may require Notified Body review and certificate (Radio and 'Other')



Article 3: RED Assessment Scope

Product Safety

Article 3.1a

EMC Performance

Article 3.1b

Radio Performance

Article 3.2

Other Categories

Article 3.3

Common Charger

Article 3.4



- Delegated Regulation (EU) 2022/30
 - Published 12 January 2022
 - Enacting RED Article 3.3(d), 3.3(e), 3.3(f)
 - Applies from 1 August 2025
 - All radio products entering the EU market
 - Including existing models





- Article 3(3)
 - 3(3)(d) Connection to networks
 - 3(3)(e) Personal data and privacy of user
 - 3(3)(f) Protection from fraud



- Harmonised Standards in progress:
 - Expected around June-August 2024

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• EN 18031-1 (Article 3(3)(d) - Connection to networks)
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- EN 18031-2 (Article 3(3)(e) Personal data and privacy)
- EN 18031-3 (Article 3(3)(f) Protection from fraud)
- Drafts available to committee members





Harmonised Standards in progress:

In case they are not ready...

Notified Body EU-TEC from 1 August 2025





- Cyber Security for EU:
 - Part of the CE marking
 - Included in manufacturer's DoC to RED

Very different to UK PSTI requirements





EU Future?

- Cyber Resilience Act
 - CRA
- All digital equipment and software
 - Wireless and Wired
 - Hardware and Applications
- Expect published in 2024
 - Expect in force 2027





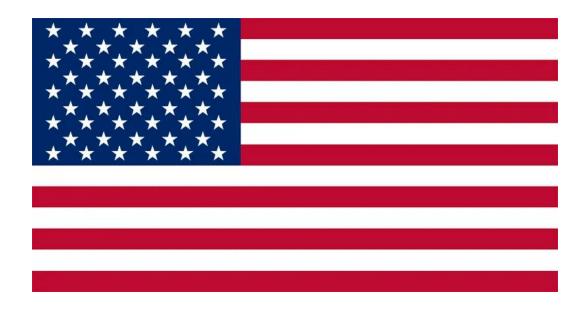
EU CRA

- Cyber Resilience Act
 - Expected to 'repeal' RED Cyber
 - Articles 3.3(d), 3.3(e), 3.3(f)
 - CRA tests not known yet
 - Hope to be similar to RED requirements





The USA





- Cyber Labelling Program
 - Published on 25 March 2024
 - Into effect from 24 April 2024
 - Voluntary scheme
 - For wireless consumer IoT products





- Cyber Labelling Program
 - Logo and QR code for compliant products
 - QR code informs about support period and security details





- Cyber Labelling Program
 - Detailed in FCC 47 CFR Part 8
 - "Test" by accredited labs
 - "Certification" by accredited body
 - (CLA = Cyber Label Administrator)





- Cyber Labelling Program
 - Test requirements not defined yet
 - Recommendations in place:
 - https://www.nist.gov/itl/executive-order-14028-improving-nations-cybersecurity/cybersecurity-labeling-consumers-0
 - https://nvlpubs.nist.gov/nistpubs/CSWP/NIST.CSWP.02042022-2.pdf
 - https://nvlpubs.nist.gov/nistpubs/CSWP/NIST.CSWP.02042022-1.pdf





Questions



