



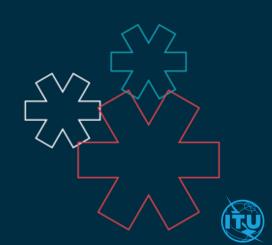
Cybersecurity Certification/Labelling Schemes





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Cybersecurity Engineering Centre
Cyber Security Agency of Singapore

23 May 2023, Geneva





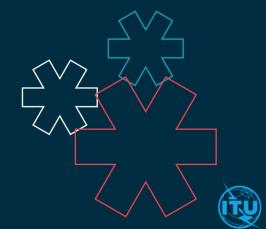


Content

- About Cybersecurity Certification Centre (CCC)
- Cybersecurity Labelling Scheme (CLS)
- National Integrated Centre for Evaluation (NiCE)









Focus on Evaluation, Certification and Labelling of cybersecurity devices & products

Singapore Common Criteria Scheme



The certification of Commercial ICT products targeting international marketplace

Cybersecurity Labelling Scheme



The labelling of network-connected consumer smart devices







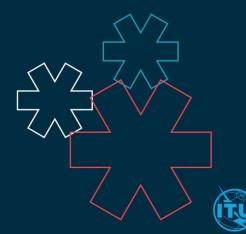
National IT Evaluation Scheme



The evaluation and certification of ICT products for Singapore government agencies



A complementary scheme to CLS for CLS products to leverage on security functionalities by CLS-Ready certified platforms



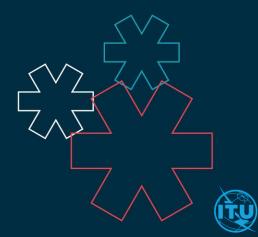


Focus on Evaluation, Certification and Labelling of cybersecurity devices & products





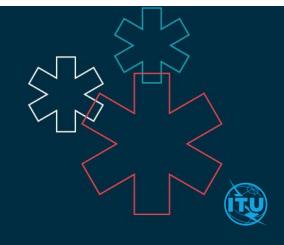
















THE IOT SECURITY LANDSCAPE **ADOPTION AND HARMONISATION OF SECURITY SOLUTIONS FOR** THE INTERNET OF THINGS innovation for life Jointly commissioned by: Cyber Security Agency of Singapore Ministry of Economic Affairs and Climate Policy of the Netherlands

PRINCIPLES, GOVERNANCE AND LEGISLATION

Cybersecurity and Privacy by Design

IoT Security Standards and Guidelines

Evaluation and Certification

Future-Proof Legislation

ECOSYSTEM DEVELOPMENT

Responsible Industry Ecosystem

Supply Chain Security

Product Lifecycle Support

TECHNICAL REFERENCES AND STANDARDS

Device Identity and Root of Trust Secure OS, Cloud and Applications

Secure Communications and Infrastructure Security Monitoring and Analytics

Figure 6: IoT Security Problem Spaces and Challenges







CONSUMERS

Making cybersecurity provisions transparent to consumers and enabling them to differentiate against poorly secured devices



82%

Cybersecurity label as part of consideration when purchasing smart devices



879

Important to have a labelling scheme for smart devices



CLS is a step in the right direction towards a more cybersecure society

DEVELOPERS

Help manufacturers to differentiate themselves in the market and thus, incentivise manufacturers to produce more secure devices



ECONOMY

To grow the economy, working with International Partners for mutual recognition to reduce duplicated testing and improve market access



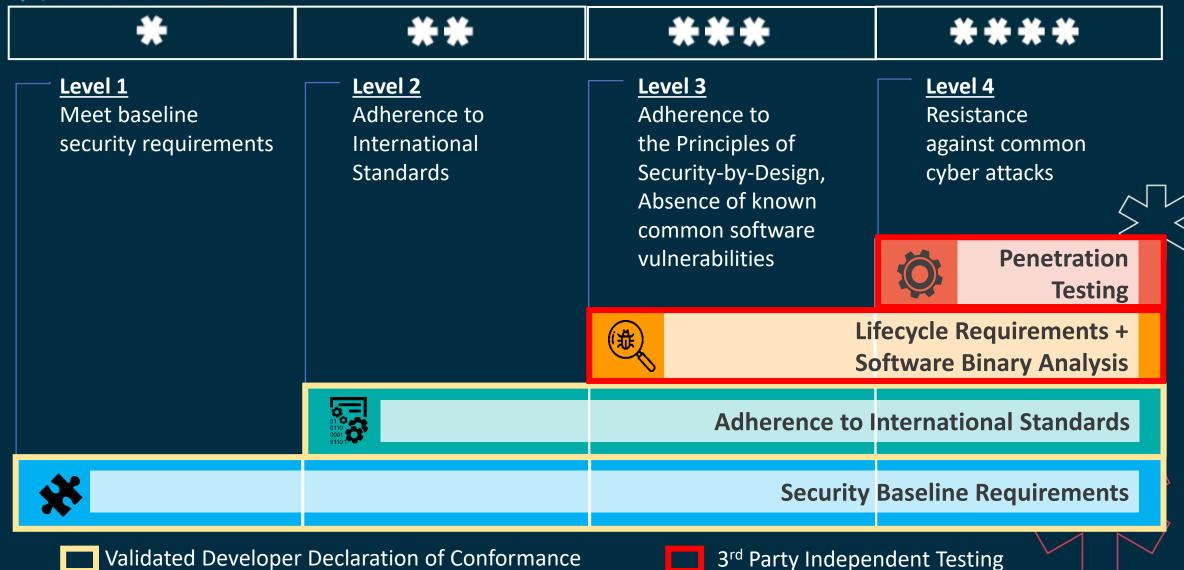




- Reduce attack surface, enhance security
- Safer & more secure cyberspace











- The CLS is a **voluntary scheme**, with the exception of Wi-Fi Routers (mandatory).
- The CLS covers all categories of IoT devices such as Wi-Fi Routers and Smart Home Hubs.



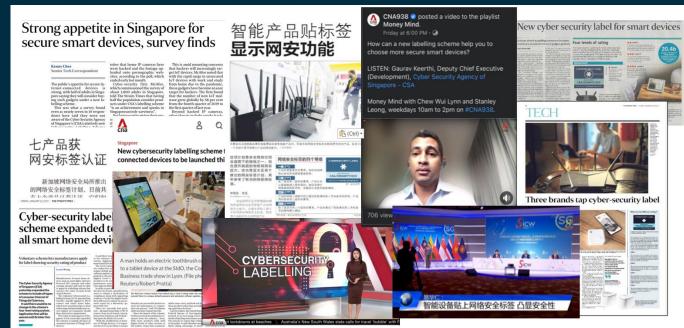




Just because a device has been awarded the Level 4 rating doesn't mean it is impervious to attacks. It just means that the device was designed with security concepts in mind and tested by third-party labs to be able to resist against <u>common</u> cyber-attacks.



Media, Roadshows, Social Media

















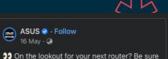


Thinking of setting up your own "smart home"? Check out this video by Lianhe Zaobao 联合早报 featuring smart home owner, Mr Louis Ang's

Get the lowdown from Mr Ang on how he ensures his smart home is secure by purchasing products with the Cybersecurity Labelling Scheme (CLS).



137智能产品获网安认证 86% 得最低一星等级标签





to take this into consideration.

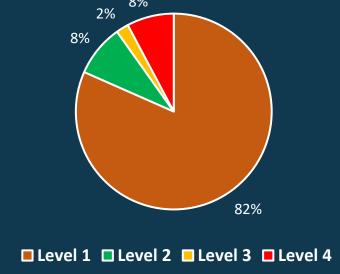






Close to 300 labelled devices since launch in Oct 2020

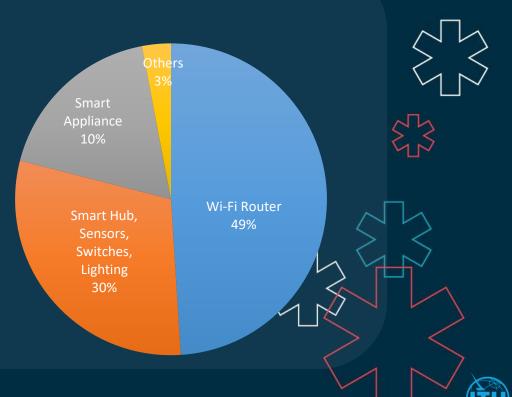
Applications for CLS by levels



Manufacturers seeking higher levels of security labelling

Current
observation
indicates
increased interest
to develop more
secure products,
with developers
applying for
higher levels <u>after</u>
obtaining level 1.

Device Categories







CSE Mutual Recognition Arrangement

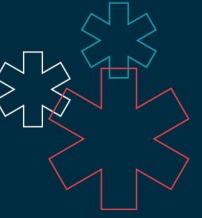


Consumer IoT Products that have met the requirements of Finland's Cybersecurity Label are recognized as Level 3 of CLS, and products with CLS Level 3 and above are recognised by Finland.



Smart consumer products issued with Germany's IT Security Label will be recognised to have fulfilled Level 2 CLS, and products with CLS Levels 2 and above will be recognised by Germany.









More Information

- Cybersecurity Certification Centre https://www.go.gov.sg/csa-ccc
- Singapore Common Criteria Scheme https://www.go.gov.sg/sccs-about
- Cybersecurity Labelling Scheme https://www.go.gov.sg/csa-cls
- CLS Video https://www.go.gov.sg/cls-video
- CLS-Ready: https://www.go.gov.sg/cls-ready
- CLS (MD): https://www.go.gov.sg/cls-md

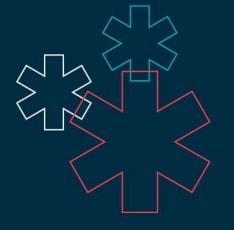






National Integrated Centre for Evaluation



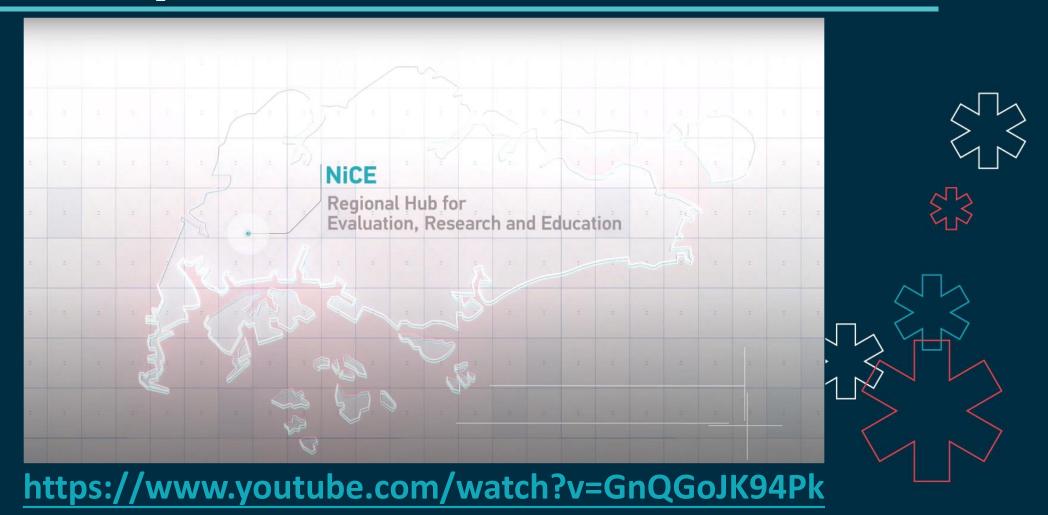








Corporate Video for NiCE









Officially Launched on 18th May 2022

















NiCE: One-Stop Centre for

Evaluation

Seed a community of practice, Grow TIC (Cyber)

- Access to state-of-the-art equipment
- Provide expert guidance for equipment use and share knowledge with users
- Foster close Government-Academia-Industry partnership to grow TIC(cyber)

Research

Drive research to automate, and deepen evaluation through advanced security evaluation techniques

- Hardware security,
- Software security
- Cryptography implementation
- Mobility and Secure Communications evaluation

Education

Build pipeline of local product evaluation talent

- Conduct training for industry-ready competencies
- Enhance cybersecurity curriculum for tertiary students
- Meet demand for security evaluation professionals







For More Information

Website: http://www.ntu.edu.sg/nice

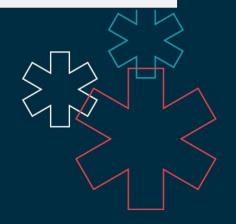
Email: NiCE_enquiries@ntu.edu.sg

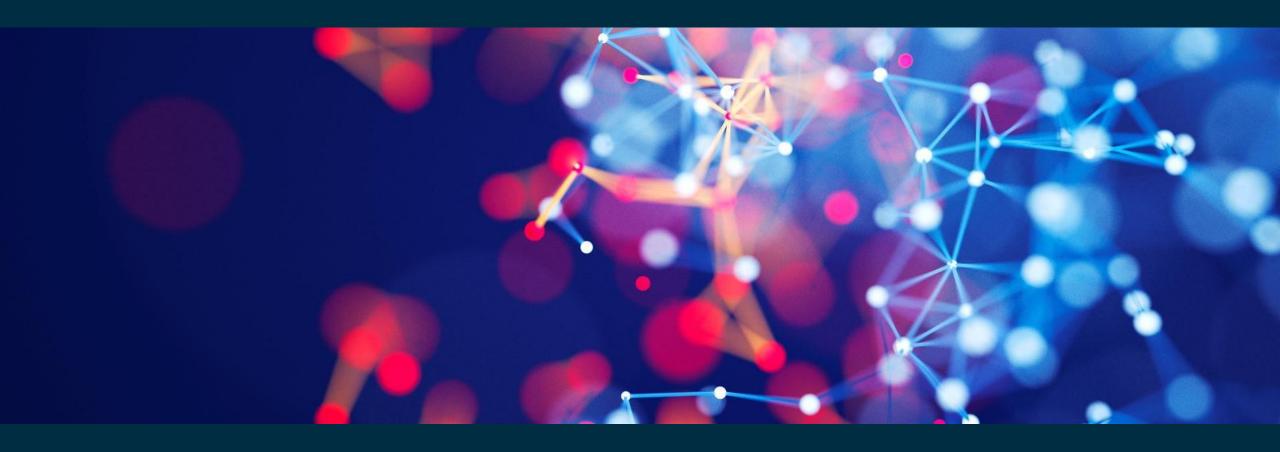


An initiative by



National Integrated Centre for Evaluation





Questions

Thank You!

For further enquiries, please contact certification@csa.gov.sg