



ISO/IEC JTC 1/SC 27 **N20578**
ISO/IEC JTC 1/SC 27/WG 3 **N1823**

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ISO/IEC JTC 1/SC 27
Information security, cyber security and privacy protection
Secretariat: DIN, Germany

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ISO/IEC JTC 1/SC 27/WG 3 Recommendations

60th Meeting, Virtual (via Zoom)

April 20th – 24th, 2020

All recommendations are approved UNANIMOUSLY unless otherwise noted.

WG Recommendation 1. Acceptance of minutes

ISO/IEC JTC 1/SC 27/WG 3 resolves to accept the minutes of ISO/IEC JTC 1/SC 27/WG 3 of the 59th meeting in Saint-Denis, France, October 14th – 18th 2019, in document WG 3 N1743.

WG Recommendation 2. Appointment of the Drafting Committee

ISO/IEC JTC 1/SC 27/WG 3 resolves to appoint Fiona Pattinson, Kwangwoo Lee and Tyrone Stodart as Drafting Committee of the meeting and instructs them to prepare the draft WG recommendations document for WG 3, to be recorded in N20578.

WG Recommendation 3. Appointment of Acting Liaison Officers

ISO/IEC JTC 1/SC 27/WG 3 appoints the following acting liaison officers through the end of the meeting:

Liaison Officer	Liaison Institution
Hao Qin	to ITU-T SG 17
Martin Ward	to ETSI ISG QKD
Jiajun Ma	to ITU-T FG-QIT4N

WG Recommendation 4. Appointment of Editors

ISO/IEC JTC 1/SC 27/WG 3 appoints the following editors:

Editor	Project	Title
Heebong Choi Randall Easter # Carolyn French #	23532-1	Requirements for the competence of IT security testing and evaluation laboratories – Part 1: Evaluation for ISO/IEC 15408
Randall Easter Heebong Choi # Carolyn French #	23532-2	Requirements for the competence of IT security testing and evaluation laboratories – Part 2: Testing for ISO/IEC 19790

co-editor

WG Recommendation 5. Establishment of WG Study Period

ISO/IEC JTC 1/SC 27/WG 3 requests its Secretariat to take an appropriate action for the establishment of the Study Period and appointment of rapporteurs listed below.

Document	Title	Rapporteur
WG 3 N1842	Framework for cybersecurity assurance and relation with ISO/IEC 15408	Ricardo Villalón Antonio Kung #

co-rapporteur

WG Recommendation 6. Appointment of Rapporteurs

ISO/IEC JTC 1/SC 27/WG 3 appoints the following rapporteurs:

Rapporteurs	Title
Josh Dembling Claire Vishik # Amit Elazari Bar On # Tomotaka Ito #	Multi-Party Coordinated Vulnerability Disclosure and Handling
Ricardo Villalón Antonio Kung #	Framework for cybersecurity assurance and relation with ISO/IEC 15408
Bowei Zhang Ao Luo # Yuto Nakano #	Hardware Monitoring Technology for Hardware Security Assessment

co-rapporteurs

WG Recommendation 7. Extension of WG Study Periods

ISO/IEC JTC 1/SC 27/WG 3 requests its Secretariat to take an appropriate action for the extension of the Study Periods listed below for another six-month period.

Document	Title	Rapporteur
WG 3 N1843	Evaluation criteria for connected vehicle information security based on ISO/IEC 15408	Di Tang Dietmar Bremser # Christian Noetzel # Claire Vishik # Yi Zhang # Gaëtan Pradel #
WG 3 N1844	Hardware Monitoring Technology for Hardware Security Assessment	Bowei Zhang Ao Luo # Yuto Nakano #
WG 3 N1845	Creation of a Patch Management Extension for ISO/IEC 15408 and ISO/IEC 18045 *	Javier Tallón Sebastian Fritsch #
WG 3 N1846	Multi-Party Coordinated Vulnerability Disclosure and Handling	Josh Dembling Claire Vishik #

		Amit Elazari Bar On # Tomotaka Ito #
WG 3 N1847	Update of ISO/IEC 17825:2016	Sylvain Guilley Jean-Pierre Quémard # Randall Easter # Jiazhe Chen #
WG 3 N1848	Update of ISO/IEC 19790:2012 and ISO/IEC 24759:2017	Heebong Choi Jean-Pierre Quémard # Randall Easter # Carolyn French #

co-rapporteur

* subject to approval of WG Recommendation 22

WG Recommendation 8. Termination of WG Study Periods

ISO/IEC JTC 1/SC 27/WG 3 requests its Secretariat to take an appropriate action for the termination of the Study Periods listed below.

Document	Title	Rapporteur
WG 3 N1767	Complex Systems Cybersecurity Assurance	Antonio Kung
WG 3 N1768	Integral Structured Multi-dimensional Security Model for IT Systems	Ricardo Villalón

WG Recommendation 9. Call for contributions

ISO/IEC JTC 1/SC 27/WG 3 requests its Secretariat to circulate a call for expert participation and contributions for the following study periods. Submissions should reach the Secretariat by the due date identified below.

Document	Project	Title	To be sent to/by
WG 3 N1843	WG 3 Study Period	Evaluation criteria for connected vehicle information security based on ISO/IEC 15408	WG 3 Secr/ 2020-08-14
WG 3 N1844	WG 3 Study Period	Hardware Monitoring Technology for Hardware Security Assessment	WG 3 Secr/ 2020-08-14
WG 3 N1845	WG 3 Study Period	Creation of a Patch Management Extension for ISO/IEC 15408 and ISO/IEC 18045 *	WG 3 Secr/ 2020-08-14
WG 3 N1846	WG 3 Study Period	Multi-Party Coordinated Vulnerability Disclosure and Handling	WG 3 Secr/ 2020-08-14
WG 3 N1847	WG 3 Study Period	Update of ISO/IEC 17825:2016	WG 3 Secr/ 2020-08-14
WG 3 N1848	WG 3 Study Period	Update of ISO/IEC 19790:2012 and ISO/IEC 24759:2017	WG 3 Secr/ 2020-08-14

WG 3 N1842	WG 3 Study Period	Framework for cybersecurity assurance and relation with ISO/IEC 15408	WG 3 Secr/ 2020-08-14
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* subject to approval of WG Recommendation 22

WG Recommendation 10. Preparation of Documents

ISO/IEC JTC 1/SC 27/WG 3 requests the editors of the projects listed below to prepare a 1st WD for the projects identified below.

Document	Project	Title	To be sent/by
WG 3 N1849	WG Technical Report	Towards Creating an Extension for Patch Management for ISO/IEC 15408 and ISO/IEC 18045	WG 3 Secr/ 2020-06-19
WG 3 N1813	WG Technical Report	Multi-Party Coordinated Vulnerability Disclosure and Handling	WG 3 Secr/ 2020-06-19

WG Recommendation 11. Updating of documents

ISO/IEC JTC 1/SC 27/WG 3 requests the Project Editors / Co-Editors / Rapporteurs of the projects identified below to update the following drafts and produce Dispositions of Comments in accordance with the instructions decided at the Working Group/editing meetings, and to send these documents to the SC 27 and/or WG 3 Secretariat by the due dates.

Document	Project No.	Title	To be sent to/by	DoC Doc. No.
SC27 N20562	19989-2	Criteria and methodology for security evaluation of biometric systems – Part 2: Biometric recognition performance	SC 27 Secr. 2020-06-19	SC 27 N20561
SC27 N20564	19989-3	Criteria and methodology for security evaluation of biometric systems – Part 3: Presentation attack detection	SC 27 Secr. 2020-06-19	SC 27 N20563
SC 27 N20566	20897-1	Physically unclonable functions — Part 1: Security requirements *	SC 27 Secr. 2020-06-19	SC 27 N20565
SC 27 N20568	20897-2	Physically unclonable functions — Part 2: Test and evaluation methods *	SC 27 Secr. 2020-06-19	SC 27 N20567
WG 3 N1810	22216	Introductory guidance on evaluation for IT security	WG 3 Secr. 2020-06-19	SC 27 N20032
SC 27 N20570	23532-1	Requirements for the competence of IT security	SC 27 Secr.	SC 27

		testing and evaluation laboratories – Part 1: Evaluation for ISO/IEC 15408	2020-06-19	N20569
SC 27 N20572	23532-2	Requirements for the competence of IT security testing and evaluation laboratories – Part 2: Testing for ISO/IEC 19790	SC 27 Secr. 2020-06-19	SC 27 N20571
WG 3 N1809	23837-1	Security requirements, test and evaluation methods for quantum key distribution – Part 1: Requirements	WG 3 Secr. 2020-06-19	WG 3 N1808
WG 3 N1811	23837-2	Security requirements, test and evaluation methods for quantum key distribution – Part 2: Test and evaluation methods	WG 3 Secr. 2020-06-19	WG 3 N1808
SC 27 N20574	24485	Security properties, test and evaluation guidance for white box cryptography	SC 27 Secr. 2020-06-19	SC 27 N20573
SC 27 N20912	29128	Verification of cryptographic protocols	SC 27 Secr. 2020-06-19	WG 3 N1812

* subject to approval of WG Recommendation 13

WG Recommendation 12. Documents for Study and Comment

ISO/IEC JTC 1/SC 27/WG 3 requests its Secretariat to circulate the following documents to experts for study and comment:

Document	Project	Title	Comments Due date
WG 3 N1810	22216	Introductory guidance on evaluation for IT security	2020-08-14
WG 3 N1809	23837-1	Security requirements, test and evaluation methods for quantum key distribution – Part 1: Requirements	2020-08-14
WG 3 N1811	23837-2	Security requirements, test and evaluation methods for quantum key distribution – Part 2: Test and evaluation methods	2020-08-14
WG 3 N1684	--	WG 3 Roadmap	2020-08-14
WG 3 N1849	WG Technical Report	Towards creating an Extension for Patch Management for ISO/IEC 15408 and ISO/IEC 18045	2020-08-14
WG 3 N1813	WG Technical Report	Multi-Party Coordinated Vulnerability Disclosure and Handling	2020-08-14

WG Recommendation 13. Project Title Change

ISO/IEC JTC 1/SC 27/WG 3 requests SC 27 Secretariat to take an appropriate action for title change of the following project:

Project	New title	Justification
20897-1	Physically unclonable functions — Part 1: Security requirements	SC 27 N20910
20897-2	Physically unclonable functions — Part 2: Test and evaluation methods	SC 27 N20911

WG Recommendation 14. Document for 1st CD

ISO/IEC JTC 1/SC 27/WG 3 requests the SC 27 Secretariat to register the following documents as 1st CD to circulate for balloting.

Document	Project	Title
SC 27 N20912	29128	Verification of cryptographic protocols

WG Recommendation 15. Document for further DTR

ISO/IEC JTC 1/SC 27/WG 3 requests the SC 27 Secretariat to circulate the following documents for balloting.

Document	Project	Title
SC 27 N20573	24485	Security properties, test and evaluation guidance for white box cryptography

WG Recommendation 16. Document for further DTS

ISO/IEC JTC 1/SC 27/WG 3 requests the SC 27 Secretariat to circulate the following documents for balloting.

Document	Project	Title
SC 27 N20570	23532-1	Requirements for the competence of IT security testing and evaluation laboratories – Part 1: Evaluation for ISO/IEC 15408
SC 27 N20572	23532-2	Requirements for the competence of IT security testing and evaluation laboratories – Part 2: Testing for ISO/IEC 19790

WG Recommendation 17. Document for further CD

ISO/IEC JTC 1/SC 27/WG 3 requests the SC 27 Secretariat to circulate the following documents for balloting.

Document	Project	Title
SC 27 N20568	20897-2	Physically unclonable functions – Part 2: Test and evaluation methods*

* subject to approval of WG Recommendation 13

WG Recommendation 18. Document for 1st FDIS

ISO/IEC JTC 1/SC 27/WG 3 requests the SC 27 Secretariat to register the following document as 1st FDIS to circulate for balloting.

Document	Project	Title
SC27 N20562	19989-2	Criteria and methodology for security evaluation of biometric systems – Part 2: Biometric recognition performance
SC27 N20564	19989-3	Criteria and methodology for security evaluation of biometric systems – Part 3: Presentation attack detection
SC 27 N20566	20897-1	Physically unclonable functions – Part 1: Security requirements*

* subject to approval of WG Recommendation 13

WG Recommendation 19. Liaison Statements

ISO/IEC JTC 1/SC 27/WG 3 approves the following liaison statements and requests the SC 27 Secretariat to send these liaison statements to the committees/institutions concerned.

WG	Document	To	Topic	Reference
3	WG 3 N1838	CCDB	All projects	WG 3 N1829
3	WG 3 N1839	CCUF	All projects	WG 3 N1837
3	WG 3 N1840	SC 37	Biometrics Security	SC 27 N20526
all	SC 27 N20913	ITU-T SG 17	23837	SC 27 N20547
all	SC 27 N20915	ITU-T FG-QIT4N	23837	SC 27 N20468
3	WG 3 N1841	ETSI ISG QKD	23837	WG 3 N1779

WG Recommendation 20. Input text to contribute to a SC 27 Liaison Statement to ENISA

ISO/IEC JTC 1/SC 27/WG 3 approves the following text to be contributed to a SC 27 liaison statement to ENISA:

“Clarifications on IPR policy in regard to ISO/IEC 15408.

ISO/IEC JTC 1/SC 27 notes the duties of ENISA in the preparation of draft candidate certification schemes, that include a reference to the applicable standards. The issues raised on the use of ISO/IEC 15408 versus the Common Criteria counterpart are well understood and are currently subject to internal review and discussion within ISO/IEC. A clarification will be notified to ENISA as soon as it becomes available.

Patch management and continuous certification.

As one technical topic of the cybersecurity certification, the many aspects dealing with patch management are currently being analysed within ISO/IEC JTC 1/SC 27/WG 3, and a

technical report “Towards Creating an Extension for Patch Management for ISO/IEC 15408 and ISO/IEC 18045” is under development, that may be of interest to ENISA.”

WG Recommendation 21. Input text to contribute to a SC 27 Liaison Statement to CASCO

ISO/IEC JTC 1/SC 27/WG 3 approves the following text to be contributed to a SC 27 liaison statement to CASCO:

“ISO/IEC JTC1/SC27/WG 3 welcome comments and contributions on ISO/IEC 23532 Requirements for the competence of IT security testing and evaluation laboratories, parts 1 and 2.”

WG Recommendation 22. Update of SD4 for Study Period title change

ISO/IEC JTC 1/SC 27/WG 3 approves to update the title of Study Period as shown below and requests the SC 27 Secretariat to update the SD 4 accordingly.

Current title	New Title
Introduction of new assurance requirements in ISO/IEC 15408-3 covering patch management and deployment activities	Creation of a Patch Management Extension for ISO/IEC 15408 and ISO/IEC 18045

WG Recommendation 23. Extension of ISO Limit Date

ISO/IEC JTC 1/SC 27 requests its Secretariat to take the appropriate action for the Extension of ISO Limit date of the following project:

Document	Project	Title
SC 27 N20914	20897-2	Physically unclonable functions — Part 2: Test and evaluation methods *

* subject to approval of WG Recommendation 13

WG Recommendation 24. Update of SD4 for limit date

ISO/IEC JTC 1/SC 27/WG 3 approves to update the following target dates in SD 4 and asks SC27 Secretariat to send those changes to JTC1 for endorsement letter ballot.

PROJECT	TITLE	TARGET DATES	
		DIS/	IS/
20897-2	Physically unclonable functions — Part 2: Test and evaluation methods *	21/03	22/03

* subject to approval of WG Recommendation 13

WG Recommendation 25. Recommendations from periodical review of IS/TR

ISO/IEC JTC 1/SC 27/ WG 3 approves the following recommendations based on systematic and committee review result and requests its Secretariat to take appropriate action:

Standard	Title	Recommendation
ISO/IEC 21827:2008-10, 2nd ed	Capability Maturity Model® (SSE-CMM®)	SC 27 N20575 <i>Confirmation</i>
ISO/IEC TR 19791:2010-04	Security assessment of operational systems	SC 27 N20576 <i>Confirmation</i>
ISO/IEC TR 20004:2015-12	Refining software vulnerability analysis under ISO/IEC 15408 and ISO/IEC 18045	SC 27 N20577 <i>Confirmation</i>

Resolution A Thanks to the SC 27 Committee Manager

ISO/IEC JTC 1/SC 27/WG 3 thanks Krystyna Passia for her efficient and unfailing support before and during the meeting.

Acclamation

Resolution B Thanks to the Drafting Committee

ISO/IEC JTC 1/SC 27/WG 3 thanks the members of the drafting committee Fiona Pattinson, Kwangwoo Lee and Tyrone Stodart for drafting the recommendations.

Acclamation

Resolution C Thanks to WG 3 Secretariat and Vice Convenor

The WG 3 Convener and experts thank its secretary and Vice Convenor, Naruki Kai, for his efforts and assistance in developing the WG 3 Meeting Report before, during and after the meeting.

Acclamation

Resolution D Thanks to the Experts, Rapporteurs and Editors

ISO/IEC JTC 1/SC 27 WG 3 thanks all the SC 27 WG 3 experts, rapporteurs, editors, acting editors and acting rapporteurs for their efforts and continued support in progressing the many SC 27 WG 3 projects.

ISO/IEC JTC 1/SC 27 WG 3 especially thanks the following editors for their efforts in getting the following documents through the standardisation process.

Editor	Project	Title
Hirofumi Sakane Sylvain Guilley Randall Easter	20085-1	Test tool requirements and test tool calibration methods for use in testing non-invasive attack mitigation techniques in cryptographic modules – Part 1: Test tools and techniques
Hirofumi Sakane Sylvain Guilley Randall Easter	20085-2	Test tool requirements and test tool calibration methods for use in testing non-invasive attack mitigation techniques in cryptographic modules – Part 2: Test calibration methods and apparatus

Acclamation

Resolution E Thanks to the Convenor

ISO/IEC JTC 1/SC 27 WG 3 thanks Miguel Bañón for his excellent work as WG 3 Convener.

Acclamation