



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

REPLACES: N

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

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**TITLE:** Recommendations of the 60<sup>th</sup> SC 27 WG 3 meeting, Virtual (via Zoom), April 20th – 24th, 2020

**SOURCE:** 60<sup>th</sup> SC 27 WG 3 meeting

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**PROJECT:**

**STATUS:** This document is being circulated for action.  
This document was available at the above-mentioned meeting.

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**DUE DATE:**

**DISTRIBUTION:** P, O, L Members  
L. Rajchel, JTC 1 Committee Manager  
J. Alcorta, ITTF  
A. Wolf, SC 27 Chairman  
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E. Humphreys, T. Chikazawa, M. Bañón, J. Amsenga, K. Rannenber, WG Convenors

**MEDIUM:** <http://isotc.iso.org/livelink/livelink/open/jtc1sc27>

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

60<sup>th</sup> 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 59<sup>th</sup> 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:

<b>Liaison Officer</b>	<b>Liaison Institution</b>
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:

<b>Editor</b>	<b>Project</b>	<b>Title</b>
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.

<b>Document</b>	<b>Title</b>	<b>Rapporteur</b>
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:

<b>Rapporteurs</b>	<b>Title</b>
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.

<b>Document</b>	<b>Title</b>	<b>Rapporteur</b>
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.

<b>Document</b>	<b>Title</b>	<b>Rapporteur</b>
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.

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

WG 3 N1842	WG 3 Study Period	Framework for cybersecurity assurance and relation with ISO/IEC 15408	WG 3 Sect/ 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 1<sup>st</sup> 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 Sect/ 2020-06-19
WG 3 N1813	WG Technical Report	Multi-Party Coordinated Vulnerability Disclosure and Handling	WG 3 Sect/ 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 Sec. 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 Sec. 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 Sec. 2020-06-19	WG 3 N1808
SC 27 N20574	24485	Security properties, test and evaluation guidance for white box cryptography	SC 27 Sec. 2020-06-19	SC 27 N20573
SC 27 N20912	29128	Verification of cryptographic protocols	SC 27 Sec. 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:

<b>Document</b>	<b>Project</b>	<b>Title</b>	<b>Comments Due date</b>
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:

<b>Project</b>	<b>New title</b>	<b>Justification</b>
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 1<sup>st</sup> CD to circulate for balloting.

<b>Document</b>	<b>Project</b>	<b>Title</b>
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.

<b>Document</b>	<b>Project</b>	<b>Title</b>
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.

<b>Document</b>	<b>Project</b>	<b>Title</b>
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.

<b>Document</b>	<b>Project</b>	<b>Title</b>
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 1<sup>st</sup> 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:

<b>Standard</b>	<b>Title</b>	<b>Recommendation</b>
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 Convenor 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.

<b>Editor</b>	<b>Project</b>	<b>Title</b>
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 Convenor.

*Acclamation*