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Mapping of the Consumer Mobile Device Protection Profile security requirements to the CRA essential cybersecurity requirements

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Cyber Security (CYBER).

Modal verbs terminology

In the present document "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

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Introduction

The European Commission issued a horizontal legislation, the Cyber Resilience Act (CRA) [i.1], to implement security measures in products with digital elements, throughout the product lifetime. Consumer Mobile Devices fall in the scope of the CRA [i.1] and need to prove their conformity with this legislation. The CRA [i.1] defines several ways to prove conformity and one of these methods is the application of a European cybersecurity certification scheme adopted pursuant to regulation (EU) 2019/881 [i.8].

EUCC [i.9] is a European cybersecurity certification scheme based on Common Criteria ([i.10], [i.11], [i.12], [i.13], [i.14] and [i.15]) and it can be used to provide presumption of conformity to CRA [i.1] assuming that all the essential cybersecurity requirements set out in Annex I of CRA [i.1] are covered.

In the present document the Consumer Mobile Device Protection Profile (CMDPP) ([i.2], [i.3], [i.4], [i.5], [i.6] and [i.7]) security functional requirements and security assurance requirements will be analysed in order to show how they can cover the CRA [i.1] essential cybersecurity requirements; potential gaps will be identified as well as potential solutions to cover such gaps.

1 Scope

The present document provides a mapping between the Consumer Mobile Device Protection Profile (CMDPP) in the ETSI TS 103 732 series ([i.2], [i.3], [i.4], [i.5], [i.6] and [i.7]) security requirements and the essential cybersecurity requirements from the Annexes of the Cyber Resilience Act (CRA) [i.1]. The present document will also analyse the gaps between the CMDPP ([i.2], [i.3], [i.4], [i.5], [i.6] and [i.7]) (if any) and the CRA [i.1], considering how to address them where necessary.

2 References

[i.8]

2.1 Normative references

Normative references are not applicable in the present document.

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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	[i.1]	Regulation (EU) 2024/2847 of the European Parliament and of the Council of 23 October 2024 on horizontal cybersecurity requirements for products with digital elements and amending Regulations (EU) No 168/2013 and (EU) No 2019/1020 and Directive (EU) 2020/1828 (Cyber Resilience Act).
	[i.2]	ETSI TS 103 732-1 (V2.1.2) (11-2023): "CYBER; Consumer Mobile Device; Part 1: Base Protection Profile".
	[i.3]	ETSI TS 103 732-2 (V1.1.2) (11-2023): "CYBER; Consumer Mobile Device; Part 2: Biometric Authentication Protection Profile Module".
	[i.4]	ETSI TS 103 932-1 (V1.1.2) (11-2023): "CYBER; Consumer Mobile Devices Base PP-Configuration; Part 1: CMD and Biometric Verification".
	[i.5]	ETSI TS 103 732-3 (V1.1.1) (10-2023): "CYBER; Consumer Mobile Device; Part 3: Multi-user Protection Profile Module".
	[i.6]	ETSI TS 103 732-4 (V1.1.1) (06-2024): "CYBER; Consumer Mobile Device; Part 4: Preloaded Applications Protection Profile Module".
	[i.7]	ETSI TS 103 732-5 (V1.1.1) (07-2024): "Cyber Security (CYBER); Consumer Mobile Device; Part 5: Bootloader & Root of Trust Protection Profile Module".

[i.9] <u>Commission Implementing Regulation (EU) 2024/482</u> of 31 January 2024 laying down rules for the application of Regulation (EU) 2019/881 of the European Parliament and of the Council as regards the adoption of the European Common Criteria-based cybersecurity certification scheme (EUCC).

Regulation (EU) 2019/881 of the European Parliament and of the Council of 17 April 2019 on ENISA (the European Union Agency for Cybersecurity) and on information and communications technology cybersecurity certification and repealing Regulation (EU) No 526/2013 (Cybersecurity

[i.10]	ISO/IEC 15408-1:2022: "Information security, cybersecurity and privacy protection -Evaluation criteria for IT security — Part 1: Introduction and general model".
[i.11]	ISO/IEC 15408-2:2022: "Information security, cybersecurity and privacy protection -Evaluation criteria for IT security — Part 2: Security functional components".
[i.12]	ISO/IEC 15408-3:2022: "Information security, cybersecurity and privacy protection -Evaluation criteria for IT security — Part 3: Security assurance components".
[i.13]	ISO/IEC 15408-4:2022: "Information security, cybersecurity and privacy protection -Evaluation criteria for IT security — Part 4: Framework for the specification of evaluation methods and activities".
[i.14]	ISO/IEC 15408-5:2022: "Information security, cybersecurity and privacy protection -Evaluation criteria for IT security — Part 5: Pre-defined packages of security requirements".
[i.15]	ISO/IEC 18045:2022: "Information security, cybersecurity and privacy protection - Evaluation criteria for IT security — Methodology for IT security evaluation".
[i.16]	ENISA Cyber Resilience Act implementation via EUCC and its applicable technical elements (Final version: 27/01/2025).
[i.17]	GSMA TM : "SGP.06 GSMA eUICC Security Assurance Principles v2.2".
[i.18]	GSMA TM : "SGP.07 GSMA eUICC Security Assurance Methodology v2.2".
[i.19]	GSMA TM : "SGP.25 eUICC for Consumer and IoT Device Protection Profile v2.1".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the following terms apply:

embedded UICC: UICC which is not easily accessible or replaceable, is not intended to be removed or replaced in the terminal, and enables the secure changing of subscriptions

preloaded application: application provided by the TOE manufacturer as part of the system software that cannot be uninstalled by the user

UICC: smart card that conforms to the specifications written and maintained by the ETSI Secure Element Technologies Technical Body

NOTE: UICC is neither an abbreviation nor an acronym.

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ADP Application Distribution Platform CC Common Criteria CEM Common Evaluation Methodology

CMD Consumer Mobile Device

CMDPP Consumer Mobile Device Protection Profile

CRA Cyber Resilience Act
DoS Denial of Service

ECR Essential Cybersecurity Requirement

eSA eUICC Security Assurance

EUCC European Union Cybersecurity Certification

GCF Global Certification Forum

GDPR General Data Protection Regulation

MNO Mobile Network Operator

OS Operating System PP Protection Profile

PTCRB PCS Type Certification Review Board

RDP Remote Data Processing

SAR Security Assurance Requirement

SBOM Software Bill Of Material

SFR Security Functional Requirement SIM Subscriber Identity Module

ST Security Target

TLS Transport Layer Security
TOE Target Of Evaluation
TSF TOE Security Function

4 Methodology

The present document compares each CRA essential cybersecurity requirements with the SARs and SFRs of the CMDPP documents ([i.2], [i.3], [i.4], [i.5], [i.6] and [i.7]). Two other dimensions are considered in the comparison: the SARs and SFRs defined in the Common Criteria version 2022 ([i.10], [i.11], [i.12], [i.13], [i.14] and [i.15]) than may be used instead of those in the CMDPP due to the fact that CMDPP is based on a previous CC version (i.e. Common Criteria version 3.1R5) and the content of the ENISA document Cyber Resilience Act implementation via EUCC [i.16].

ETSI TS 103 732-1 [i.2], in clause 4.5 claims conformance to CC v3.1 Release 5 and the CC and CEM addenda and it is conformed to the package EAL2 augmented with ALC_DVS_EXT.1 & ALC_FLR.3.

As per EUCC [i.9] the CMDPP ([i.2], [i.3], [i.4], [i.5], [i.6] and [i.7]), which implement AVA_VAN.2 vulnerability assessment, is considered at assurance level 'substantial'.

5 Scope of the assessment

The CMDPP TOE is a subset of the Consumer Mobile Device (CMD) seen as product with digital elements in the context of the CRA [i.1]. Although the CMDPP TOE includes hardware, the Operating System and the preloaded apps (see clause 4.1 of ETSI TS 103 732-1 [i.2]), the radio interface of the CMD including its security functionality (UICC/SIM) related to the cellular mobile communication are not included in the TOE.

The cellular mobile communication functions are out of the scope of the CMDPP.

However, as suggested in [i.16], the PP owner can justify the difference between the CMDPP TOE and the CMD on the basis of the risk analysis linked to the CMDPP Security Problem Definition. If a gap still remain it has to be covered with an extension of the CMDPP or other means.

The security of the mobile communication credentials is delegated to the secure element which stores them. Depending on the secure element form factor there are two scenarios:

- a) The secure element is a UICC. In this case the UICC is not provided by the CMD manufacturer but from the MNO chosen by the user purchasing the CMD. The UICC is therefore not part of the CMD but it is itself a different product with digital elements. The UICC manufacturer is therefore responsible of the CRA conformity of the UICC.
- b) The secure element is an embedded UICC (eUICC) or an integrated eUICC. In this case the secure element is a component included by the CMD manufacturer in the CMD. The eUICC and the integrated eUICC have their own Protection Profile and moreover they are products with digital elements that need to be supplied to the CMD manufacturer with proof of CRA conformity (i.e. CE mark). It is a duty of the CMD manufacturer to verify that the eUICC or the integrated eUICC is conform to CRA.

In both cases the secure element which stores the mobile communication credentials may be certified independently by dedicated security assessment schemes and is not introducing a gap.

The other component involved in the CMD cellular mobile communication functions is the cellular modem. The modem interacts with the (e)UICC and provides the cellular mobile connectivity with the mobile network implementing the 3GPP standards. The implementation of such standard is guaranteed by the certification provided by Global Certification Forum (GCF) and PCS Type Certification Review Board (PTCRB). The functional compliance to the 3GPP standards is therefore granted.

The cellular modem is however part of the CMDPP TOE because the later includes all the CMD hardware; it is therefore subject to the vulnerability management of the CMDPP TOE.

Based on the above consideration it appears that the gaps in the scope of the CMDPP TOE are covered by the (e)UICC certification and the modem functional compliance provided by the GCF or PTCRB.

6 CRA Annex I Essential Cybersecurity Requirements Part I comparison

This clause compares the Essential Cybersecurity Requirements set out in CRA Annex I Part I "Cybersecurity requirements relating to the properties of products with digital elements" with the CMDPP SFR/SAR.

The CRA ECR in Table 1 below are provisions defined in the Cyber Resilience Act [i.1].

Table 1: Mapping of CMDPP SFRs and SARs versus CRA ECR Annex I Part I

CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
(1) Products with digital elements shall be designed, developed and produced in such a way that they ensure an appropriate level of cybersecurity based on the risks;	-	ASE_SPD.1 Security problem definition; ASE_OBJ.2 Security objectives;	ENISA request: ASE_SPD.1 Security problem definition; ASE_OBJ.1 Security objectives;	Covered
		ASE_REQ.2 Derived security requirements.	ASE_REQ.1 Direct rationale security requirements.	
(2) On the basis of the cybersecurity risk assessment referred to in Article 13(2) and where applicable, products with digital elements shall:	-	-	-	-
(a) be made available on the market without known exploitable vulnerabilities;	-	AVA_VAN.2 Vulnerability analysis	ENISA request minimum: AVA_VAN.1 Vulnerability survey	Covered

Application of the market with a secure by default configuration, unless otherwise agreed between manufacturer and business user in relation to a trailing elements, including the possibility to reset the product with digital elements, including the possibility to reset the product with digital elements, including the possibility to reset the product to its original state; I ensure that vulnerabilities can be addressed through security updates and installed within an appropriate timeframe enabled as a default setting, with a clear and easy-to-use opt-out emporarily postpone them; I ensure that vulnerabilities can be addressed through security updates that are installed within an appropriate timeframe enabled as a default setting, with a clear and easy-to-use opt-out mechanism, through the notification of available updates to users, and the option to temporarily postpone them; I ensure that vulnerabilities can be addressed through security updates that are installed within an appropriate timeframe postpone them; I ensure that vulnerabilities can be addressed through security updates are installed within an appropriate timeframe (e.g. 'an interval of no more than 1 month?'). Security devices of apps, system software by a security updates are installed within an appropriate timeframe (e.g. 'an interval of no more than 1 month?'). FMT_SMF_1/SSW_Upd at defines requirements for the TsF to specify if the software update (application or system software) is automatically installed, or the user is notified about the software update (application or system software) is automatically installed, or the user is notified about the software update (application or system software) is automatically installed, or the user is notified about the software update (application or system software) is automatically installed, or the user is notified about the software update (application or system software) is automatically installed, or the user is notified about the software update (application or system software) at asses	CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
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FDP_ACF.1/UserD ataAsset Security		access control;		and the actions when	
ataAsset Security				the final attempt fails.	
attribute based					
access control;		access control;			
FIA AFL.1		FIA AFI 1			
Authentication		_			
failure handling					

CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
I protect the confidentiality of	Stored data	-	FDP_ACF.1 defines the	Covered
stored, transmitted or otherwise	confidentiality:		conditions under which	
processed data, personal or	FDP_ACF.1/UserD		the CMD decrypt the	
other, such as by encrypting	ataAsset Security		User Data Assets based	
relevant data at rest or in transit	attribute based		on their classification;	
by state of the art mechanisms,	access control;		this assumes that the	
and by using other technical	0		User Data Assets are	
means;	Confidentiality of communication:		encrypted on the CMD.	
			The confidentiality of the	
	FTP_ITC_EXT.1/B		communication is	
	T Inter-TSF trusted		defined within the TOE	
	channel;		scope for Bluetooth, HTTPS, TLS and	
	FTP_ITC_EXT.1/H		WLAN.	
	TTPS Inter-TSF		WEAIN.	
	trusted channel;		Other supported TSF	
	tradica driamino,		trusted channel might be	
	FTP_ITC_EXT.1/T		added by the	
	LS Inter-TSF		manufacturer in its ST,	
	trusted channel;		but this is out of the	
	,		scope of the present	
	FTP_ITC_EXT.1/W		TOĖ.	
	LAN Inter-TSF			
	trusted channel;			
			Cryptographic	
	Cryptographic		mechanisms are	
	mechanisms:		covering the state of the	
	FCS_RNG_EXT.1		art.	
	Random number			
	generation;			
	gonoration,			
	FCS_CKM.1/Asym			
	metric			
	Cryptographic key			
	generation;			
	500 01444/0			
	FCS_CKM.1/Sym			
	metric			
	Cryptographic key			
	generation;			
	FCS_COP.1/SigGe			
	n Cryptographic			
	operation;			
	FCS_COP.1/KeyE			
	st Cryptographic			
	operation;			
	FCS_COP.1/Symm			
	etric Cryptographic			
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	FCS_COP.1/Deriv			
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	operation;			
	FCS_COP.1/Hash			
	Cryptographic			
	operation;			
	FCS_COP.1/Keyed			
	Hash			
	Cryptographic			
	operation			
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CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
(f) protect the integrity of stored,	Integrity of		The Integrity of the	Possible gap
transmitted or otherwise	communication:		communication is	
processed data, personal or other, commands, programs and	FTP_ITC_EXT.1/B		defined within the TOE scope for Bluetooth,	
configuration against any	T Inter-TSF trusted		HTTPS, TLS and	
manipulation or modification not	channel;		WLAN.	
authorised by the user, and	0.10.11.10.1,			
report on corruptions;	FTP_ITC_EXT.1/H		Other supported TSF	
	TTPS Inter-TSF		trusted channel might be	
	trusted channel;		added by the	
	ETD ITO EVT 4/T		manufacturer in its ST,	
	FTP_ITC_EXT.1/T LS Inter-TSF		but this is out of the	
	trusted channel;		scope of the present TOE.	
	trusteu chamiei,		TOE.	
	FTP_ITC_EXT.1/W		Cryptographic	
	LAN Inter-TSF		mechanisms are	
	trusted channel;		covering the state of the	
			art.	
	Cryptographic			
	mechanisms:		The integrity of the	
	FCS_RNG_EXT.1		stored data is not clearly mentioned in ETSI	
	Random number		TS 103 732-1 [i.2]. A	
	generation;		possible way forward is	
	9		to require in	
	FCS_CKM.1/Asym		FCS_CKH_EXT.1 an	
	metric		explanation about the	
	Cryptographic key		algorithm used to grant	
	generation;		the data integrity.	
	FCS_CKM.1/Sym		Alternatively, to use a new SFR from CC2022	
	metric		like FDP_SDI.	
	Cryptographic key			
	generation;		The report of the data	
			corruption is not	
	FCS_COP.1/SigGe		applicable to Consumer	
	n Cryptographic		Mobile Device scenario.	
	operation;		The user will not be able to use the data if they	
	FCS_COP.1/KeyE		are corrupted and most	
	st Cryptographic		likely the application of	
	operation;		service affected by the	
			problem will not work.	
	FCS_COP.1/Symm			
	etric Cryptographic			
	operation;			
	FCS_COP.1/Deriv			
	ation Cryptographic			
	operation;			
	FCS_COP.1/Hash			
	Cryptographic			
	operation;			
	FCS_COP.1/Keyed			
	Hash			
	Cryptographic			
	operation			

CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
(g) process only data, personal or			ENISA defined an	Possible gap
other, that are adequate, relevant			extended SAR for this	
and limited to what is necessary			purpose:	
in relation to the intended			ADV DDM 1. Dragged	
purpose of the product with digital elements (data minimisation);			ADV_PDM.1: Processed Data Minimisation	
Cierrients (data minimisation),			(Extended).	
			(Exteriaca).	
			However, as described	
			in section 8 for RDP, the	
			CMD is expecting that	
			the preloaded	
			application will	
			demonstrate their	
			conformity to CRA separately from the	
			CMD. This means that	
			the data minimisation	
			concept applies only to	
			the CMD main OS and	
			system services	
			(e.g. ADP).	
(h) protect the availability of	FPT_FLS.1 Failure	-	The TSF preserves a	Covered or NA
essential and basic functions, also after an incident, including	with preservation of secure state		secure state in case of failures due to software	
through resilience and mitigation	Secure State		update. The secure	
measures against denial-of-	FPT_RCV.2		state can be the state	
service attacks;	Automated		before the update is	
	recovery		executed or a state for	
			recovery as defined in	
			FPT_RCV.2 Automated	
			recovery.	
			FPT_RCV.2 mandate	
			the TOE to return to a	
			secure state using	
			automated procedures.	
			The TSF checks its	
			integrity running a suite of self-tests at the initial	
			start-up to demonstrate	
			its correct operation.	
			Incidents at that stage	
			are countered with	
			FPT_RCV.2.	
			However the Dec	
			However, the DoS attacks are considered	
			to be network attacks (or	
			network-based,	
			anyway), and these two	
			SFRs are not applicable	
			to that scenario. They	
			are considered only to	
			handle the case where there is a failure in the	
			system software.	
			System continuo.	
			The scenario where the	
			CMD is used to perform	
			DdoS attack against a	
			network is protected by	
			the authentication and authorization SFRs.	
	1		auliioiizalioii SFKS.	

CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
(i) minimise the negative impact	The TSF protects		The attacks scenarios	NA
by the products themselves or	itself trough:		are local, physical	
connected devices on the			attacks, not relevant to	
availability of services provided	FPT_PHP.3		network services. This is	
by other devices or networks;	Resistance to		not really relevant for the	
	physical attack		mobile device as it is not	
			providing services to	
	FPT_TST.1 TSF		other devices.	
	testing	A) (A) (A) (A)		
(j) be designed, developed and	-	AVA_VAN.2	ENISA request:	Covered
produced to limit attack surfaces, including external interfaces;		Vulnerability	A)/A)/ANI 1	
including external interfaces,		analysis;	AVA_VAN.1 Vulnerability survey;	
		ADV_TDS.1	Vullerability survey,	
		Basic design;	ADV_TDS.1 Basic	
		Dasic design,	design;	
		ADV_FSP.2	doolgn,	
		Security-	ADV_FSP.1 Basic	
		enforcing	functional specification;	
		functional		
		specification;	ADV_ARC.1 Security	
			architecture description.	
		ADV_ARC.1		
		Security		
		architecture		
		description.		
(k) be designed, developed and	FPT_FLS.1 Failure	ADV_ARC.1	ENISA request:	Covered
produced to reduce the impact of	with preservation of	Security	EDT ELOAE II III	
an incident using appropriate	secure state	architecture	FPT_FLS.1 Failure with	
exploitation mitigation mechanisms and techniques;	EDT DOV 2	description;	preservation	
mechanisms and techniques,	FPT_RCV.2 Automated	ADV_TDS.1	of secure state;	
	recovery	Basic design;	FPT_RCV.1 Manual	
	lecovery	Dasic design,	recovery;	
		ADV_FSP.2	locovery,	
		Security-	ADV_ARC.1 Security	
		enforcing	architecture	
		functional	description;	
		specification.		
			ADV_TDS.1 Basic	
			Design;	
			ADV ESD 1 Basis	
			ADV_FSP.1 Basic functional	
			specification.	
(I) provide security related			ENISA request:	Possible Gap
information by recording and				. 555,5,6 5 ap
monitoring relevant internal			FMT_SMR.1 Security	
activity, including the access to or			roles.	
modification of data, services or				
functions, with an opt-out			In FAU_GEN.1 Audit	
mechanism for the user;			data generation it is	
			necessary to indicate	
			which events are	
			logged.	
			In EMT SME 1 tha	
			In FMT_SMF.1, the opt-out mechanism	
			(enable/disable audit	
			function) needs to be	
			included.	
[1	I	mioladoa.	

CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
(m) provide the possibility for users to securely and easily remove on a permanent basis all data and settings and, where such data can be transferred to	FCS_CKM.4 Cryptographic key destruction	-	The permanent removal of the user data is one of the CMDPP Security Objectives:	Covered
other products or systems, ensure that this is done in a secure manner.			O.SECURE_WIPE The TOE is able to make user data assets permanently	
			unreadable. This objective is achieved by FCS_CKM.4 specifying that keys from the key hierarchy for each class of data can be deleted on request of the user, making the data unreadable.	
			The user data included in the User Data Assets are transferred in a secure manner using the mechanisms listed for ESR 2I.	
			The ENISA requested SFRs are not applicable as user data are neither exported nor transmitted. The SFR FDP_RIP.1 subset residual information	
			protection is replaced with the alternative FCS_CKM.4 achieving the equal result.	

7 CRA Annex I Essential Cybersecurity Requirements Part II comparison

This clause compares the Essential Cybersecurity Requirements set out in CRA Annex I Part II "Vulnerability handling requirements" with the CMDPP SFR/SAR.

The CRA ECR in Table 2 below are provisions defined in the Cyber Resilience Act [i.1].

Table 2: Mapping of CMDPP SFRs and SARs versus CRA ECR Annex I Part II

CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
Manufacturers of products with	-	-	-	-
digital elements shall:				
(1) identify and document	-	ALC_FLR.3	ALC_FLR.3 covers the	Possible Gap
vulnerabilities and components		Systematic flaw	first part of the ESR.	
contained in products with digital		remediation		
elements, including by drawing			The second part related	
up a software bill of materials in a			to a software bill of	
commonly used and machine-			materials is not currently	
readable format covering at the			covered.	
very least the top-level				
dependencies of the products;			ENISA is defining an	
			extended SAR:	
			ALC_SBM.1: Software	
			bill of materials	
			(Extended), but it would	
			be useful to evaluate if	
			this can be achieved	
			with alternative SARs	
			defined in CC2022.	
(2) in relation to the risks posed	-	ALC_FLR.3	ENISA request at	Covered
to products with digital elements,		Systematic flaw	minimum ALC_FLR.1	
address and remediate		remediation	Basic flaw remediation.	
vulnerabilities without delay,				
including by providing security			The extended	
updates; where technically			component defined by	
feasible, new security updates			ENISA about the	
shall be provided separately from			distinction between	
functionality updates;			security and functional	
			updates is not applicable for the CMD scenario	
			where in several cases	
			the way to remediate a vulnerability is a mix	
			between a security and	
			a functional update.	
(3) apply effective and regular	_	<u> </u>	ENISA is defining an	Covered
tests and reviews of the security	_	_	extended SAR:	Oovered
of the product with digital			ALC_PSR.1 Periodic	
elements;			security review and	
			testing.	
			g.	
			However, the EUCC	
			surveillance mechanism	
			implicitly fulfil the	
			requirement.	
			The EUCC scheme itself	
			is covering the	
			requirement.	
	L	L	poquironioni.	

CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
CRA ECR (4) once a security update has been made available, share and publicly disclose information about fixed vulnerabilities, including a description of the vulnerabilities, information allowing users to identify the product with digital elements affected, the impacts of the vulnerabilities, their severity and clear and accessible information helping users to remediate the vulnerabilities; in duly justified cases, where manufacturers consider the security risks of publication to outweigh the security benefits, they may delay making public information regarding a fixed vulnerability until after users have been given the possibility to apply the relevant patch;	- CMDPP SFRs	CMDPP SARS ALC_FLR.3 Systematic flaw remediation	Rationale ENISA request at minimum ALC_FLR.1 Basic flaw remediation.	Conclusion Covered
(5) put in place and enforce a policy on coordinated vulnerability disclosure;	-	-	This is not applicable to the product certification.	NA
(6) take measures to facilitate the sharing of information about potential vulnerabilities in their product with digital elements as well as in third party components contained in that product, including by providing a contact address for the reporting of the vulnerabilities discovered in the product with digital elements;	-	ALC_FLR.3 Systematic flaw remediation	ENISA request at minimum ALC_FLR.2 Flaw reporting procedures.	Covered
(7) provide for mechanisms to securely distribute updates for products with digital elements to ensure that vulnerabilities are fixed or mitigated in a timely manner and, where applicable for security updates, in an automatic manner;	-	ALC_FLR.3 Systematic flaw remediation	ENISA request at minimum ALC_FLR.3 Systematic flaw remediation. The extended component defined by ENISA about the distinction between security and functional updates is not applicable for the CMD scenario where in several cases the way to remediate a vulnerability is a mix between a security and a functional update.	Covered

CRA ECR	CMDPP SFRs	CMDPP SARs	Rationale	Conclusion
(8) ensure that, where security updates are available to address identified security issues, they are disseminated without delay and, unless otherwise agreed between a manufacturer and a business user in relation to a tailor-made product with digital elements, free of charge, accompanied by advisory messages providing users with the relevant information, including on potential action to be taken.	<u>-</u>	ALC_FLR.3 Systematic flaw remediation	ENISA request at minimum ALC_FLR.3 Systematic flaw remediation. The extended component defined by ENISA about the distinction between security and functional updates is not applicable for the CMD scenario where in several cases the way to remediate a vulnerability is a mix between a security and a functional update. The commercial aspects of the ESR is not applicable to the CMDPP.	Covered

8 Remote data processing

The remote data processing service is defined in the Cyber Resilience Act [i.1] as a data processing at a distance for which the software is designed and developed by the manufacturer, or under the responsibility of the manufacturer, and the absence of which would prevent the product with digital elements from performing one of its functions.

In the context of the CMDPP it is necessary to make some assumptions on the TOE defined in ETSI TS 103 732-1 [i.2] concerning the CMD functionalities that involve a remote data processing:

- The functionalities related to cellular mobile communication (that are actually out of the scope of CMDPP) have their counterpart in the cellular mobile network that performs a remote data processing to allow the cellular mobile communication service. However, the cellular mobile network is not designed and developed by the CMD manufacturer and it is under the responsibility of the Mobile Network Operators (MNOs), therefore this remote data processing cannot be considered as part of the CMD intended as product with digital element.
- The preloaded application are part of the TOE and their SFR/SAR are described in the base PP ETSI TS 103 732-1 [i.2] and the PP Module ETSI TS 103 732-4 [i.6]. The scope of the preloaded applications SFR/SAR is to grant they are not negatively affecting the main OS and the CMD user data. The functionalities of each preloaded application are not considered as part of the TOE and it is expected they are separately tested or certified (whatever will be the scheme used). This means that in the context of the CRA [i.1] the preloaded application remote data processing, if any, is to be handled within the preloaded application CRA conformity and not in the CMD CRA conformity. Moreover, some preloaded applications, even if they are included in the CMD by the CMD manufacturer, are designed and developed by a third party that design, develop and operate the remote data processing; therefore, in these cases, this remote data processing cannot be considered as part of the CMD intended as product with digital element.
- The remote services provided to the CMD in order to perform its functionalities are described in clause 4 of ETSI TS 103 732-1 [i.2]. The CMD uses and Application Distribution Platform (ADP) to allow the user to download the mobile device applications. Such ADP is usually provided by the CMD manufacturer and provides also the functionality to install the mobile application on the device. When the ADP is designed, developed and operated by the CMD manufacturer the related remote data processing is considered part of the CMD intended as product with digital element. The actual version of the CMDPP is not covering this part therefore there is a gap to cover for this functionality. The case where the user decides to use a third party ADPs is out of the scope of the CMDPP and it is also not in the scope of the CRA [i.1] due to the fact these ADPs are not under the control of the manufacturer.

• Other remote servers may be present in the CMD ecosystem; one on them is the trustworthy update server which provides secure update to the CMD system software. This server is fully under the control of the CMD manufacturer therefore the remote data processing is considered part of the CMD intended as product with digital element. The actual version of the CMDPP is not covering this part therefore there is a gap to cover for this functionality. Other servers, if any, has to be handled case by case.

The concern with the Remote data processing being included within the direct boundary of the CMDPP is that it is difficult to properly scope the requirements between both the client and remote server into a single set of requirements. This will have to be discussed as to the best way to cover these requirements.

9 Gap analysis

9.1 Product scope and TOE

The parts that are today out of the scope of the CMDPP have to be handled to cover the entire Consumer Mobile Device products in light of the CRA conformity. In particular the two aspects to cover are:

- eUICC: the eUICC is part of the CMD and the CMD manufacturer has to grant its conformity. This can be achieved reusing the eUICC Common Criteria certification based on the related protection profile [i.19] or considering the GSMA eSA eUICC certification scheme [i.17] and [i.18].
- Cellular modem: the 3GPP functionalities of the cellular modem are out of the scope of the CMDPP. This has to be handled even due to the fact that the modem is an important product in the CRA context. There are some potential solutions that can be considered to fill this gap in the scope:
 - Re-use GCF and/or PTCRB certification.
 - Consider the CRA compliancy of the modem (e.g. using the vertical harmonised standard for the routers, modems intended for the connection to the internet, and switches [i.1]).
 - A combination of both.

These ways forward could be part of the CMDPP Assumption section.

9.2 Security Functional Requirements

There are some gaps to be filled in the next version of the CMDPP:

- 1) CRA ECR Annex I Part I article 2(f) related to the integrity of the stored data; this is not explicitly covered by the CMDPP. This could be solved with the CC2022 FDP_SDI or with an application note of the existing FCS_CKH_EXT.1.
- 2) CRA ECR Annex I Part I article 2(g) related to data minimization. It is important to clarify that the CMDPP data minimization is not covering the mobile application behaviours This means that the data minimization concept applies only to the CMD main OS and system services (e.g. ADP).
- 3) CRA ECR Annex I Part I article 2(l) related to recording and monitoring relevant internal activity; there could be a gap because today the CMDPP does not provide any SFR/SAR on this topic. However further investigation is needed to understand which level of monitoring is needed also considering the monitoring done by online services linked to the user accounts. The opt-out mechanism for the user is not relevant in the Consumer Mobile Device case because it assumes a specific knowledge of the logged information. Lastly GDPR implication needs to be considered.

9.3 Security Assurance Requirements

The main gap identifies in the SAR section is related to the CRA ECR Annex I Part II article 1 related to the SBOM requirement. This gap can be filled with an extended SAR or with a combination of existing SAR in CC2022.

9.4 Remote Data Processing

Accordingly, with the analysis did in clause 8 of the present document, the remote data processing solution to be considered a part of the CMDPP are the ADP provided by the CMD manufacturer and the remote server used to provide secure update of the system software when this involve the processing of the user data.

Annex A: Change history

Date	Version	Information about changes		
September 2024	V0.0.1	Introduction, Scope, References and skeleton of the present document		
April 2025	V0.0.7	Stable draft		
April 2025	V0.0.9	Stable draft after the rapporteur call		
May 2025	V0.0.11	Final draft for approval		
May 2025	V0.0.12	Answer to TO comments		
May 2025	V0.0.13	Solved the last editorial comments		

History

Document history				
V1.1.1	July 2025	Publication		