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NEW in CC:2022 & CEM:2022

 network/bi-directional embedded composition Added multi-assurance evaluation which use a PP-Configuration Terminology updates
 Specification-based approach Exact conformance ST derives all requirements from the PP or PP-Configuration. ST can only claim exact conformance to one PP-Configuration allowed May use Direct Rationale PPs Attack-based approach: Strict Conformance (P1, E.3) Demonstrable Conformance (P1, E.2) Uses EALs but may use exact conformance if appropriate May use standard or Direct Rationale PPs/STs Multi Assurance—a single TOE may have components needing differing assurance levels, but a global TOE assurance level must include: configuration (D1, 6.2.4.2)
 Conformance with ONLY one multi-assurance PP-Configuration (P1, 6.3.4.3) Multi-assurance PP-Configuration SARs in PP-Configuration components are NOT identical (P1, 11.3.1)
 FCS_RBG (Random Bit Generation): this family defines requirements for RBG including: noise sources (external & internal) and seeding (single & multiple) and combined sources and interface for external entities to access RBG output. FCS_RNG (Generation of Random Number): this family defines quality requirements for RNG. FDP_IRC (Information Retention Control): this family deals with secure management or deletion of data no longer in use. FDP_SDC (Stored Data Confidentiality): this family addresses protection of user data confidentiality while stored in areas protected by the TSF. FIA_API (Authentication Proof of Identity): this family assures that the TSF provides/restricts capabilities and functions that are required by the TOE's purpose. FPT_EMS (TOE Emanation): this family covers limiting emanations which may lead to leakage of data. FPT_PRO (Trusted Channel Protocol): this family requires a trusted channel for secure transfer of TSF data and user data.
New Requirements PP-Configuration Evaluation - ACE_REQ.2 (PP-Module Derived Security Requirements): Evaluation of the security requirements is required to ensure that they are clear, unambiguous, and well-defined. Composite Product Evaluation



information security provide NEW in CC:2022 & CEM:2022 ASE COMP (Consistency of Composite Product Security Target): this family ensures that the composite product ST does not contradict the ST of the related base component. ADV COMP (Composite Design Compliance): this family ensures that requirements from base component to dependent component are fulfilled in the composite product. ALC COMP (Integration Composition Parts and Consistency Check of Delivery **Procedures**): this family ensures that the evaluated version of the dependent component has been installed into the evaluated version of the related base component and that delivery processes are compatible. ATE COMP (Composite Functional Testing): this family ensures that the composite product satisfies the functional requirements of its composite product ST. AVA COMP (Composite Vulnerability Assessment): this family addresses exploitability of flaws/weaknesses in composite product in the intended environment. **Development Evaluation** ADV SPM (Formal TOE Security Policy Model): this family covers the evaluation of formal TOE security policy model. Life-cycle Support Evaluation ALC TDA (TOE Development Artifacts): this family requires artifacts to be used in determining if the development process is trusted. Updated Requirements APE OBJ.1: new element for security objective rationale - APE_REQ.1: new elements for security requirement rationale - ACE INT.1: new elements for PP-Module Base - ACE CCL.1: new elements for conformance statement - ACE MCO.1: new elements for assurance rationale - ACE CCO.1: TOE overview, consistency rationale, and evaluation methods - ASE_INT.1: multi-assurance ST, evaluation methods, and activities identification - ASE OBJ.1 new element for security objective rationale ASE REO.1 new elements for single and multi-assurance STs, security rationale, evaluation methods and activities ADV_SPM.1 updated to require formal TSF model Framework for specification of evaluation methods (EMs) and evaluation Part 4 activities (EAs). Framework for Specifies methods for defining new evaluation activities which can be derived from EMs/EAs CEM work units for TOE type or TOE technology type. A PP/PP-Module/PP-Configuration must specify one or more EM/EA in its conformance statement. A package must specify one or more EM/EA in its security requirement section. An **ST** must identify the EM/EA used in its **conformance claim**. New EMs/EAs may start either from an SAR or an SFR. Guidelines are provided in P4. 4.2. Verb usage must align with those defined in P1. - EM structure is described in P4, 5 & Figure 3. - EA structure is described in P4, 6. Part 5 Pre-- Includes EALs 1-7 from CC 3.1R5 Includes Composed Assurance Package (CAP) from CC 3.1R5 defined **New Packages:** Packages - **COMP:** Composite product package (P5, 6 & Table 13) **PPA: PP Assurance packages** (P5, 7) atsec information security corporation | http://www.atsec.com/ | info@atsec.com Version: 2.0 Last updated: 2025-04-29

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	 PPA-DR: PP Assurance Direct rationale PP packages (P5, Table 15) PPA-STD: PP Assurance Standard packages (P5, Table 16) 	
	- STA: ST Assurance packages (P5, 8)	
	STA-DR: ST Assurance Direct rationale packages (P5, Table 18) STA STD: ST Assurance Standard packages (P5, Table 10)	
	STA-STD: ST Assurance Standard packages (PS, Table 19)	
Composition of Assurance	 Layered composition - base is independent from dependent component, is not modified by dependent. Dependent component uses base functionality (P1,14). <i>Example</i>: a hardware integrated circuit (base component) and a software part on top of it (dependent component). Supports two evaluation techniques: ACO (CC3.1R5) and COMP (new). Added SARs for COMP: (P1, Table 3 & P5, Table 13) ASE_COMP.1 ADV_COMP.1 ALC_COMP.1 ATE_COMP.1 AVA COMP.1 AVA complex and the evaluation activities to confirm security assurance of entire product Network/bi-directional - a component uses functionality of another component via communication channel (P1,14); Interdependency if specified and controlled Both products are separated such that no other channel other than the defined one Both products implement functionality required to protect the communication channel. <i>Example</i>: An application (component A) using functionality of an external LDAP server (component B) Note: this model is not covered in CC:2022. Embedded - a component is used as part of the larger component and so interdependency is contained. Usually, no separation and each part can influence the other (P1,14) <i>Example:</i> A library or subsystem providing specific security functions as part of a larger product If separation is specified, ADV_ARC from Part 3 describes requirements.	
Modularization	 No modularization, i.e., the entire TOE Modular: Base PP and PP-Modules (P1,11) Package family: assurance & functional (P1,9.1) APE, ACE, or ASE Multi-assurance: PP-Configuration) P1, 6.3.4 & P3, 11 Global set of SARs applicable to all PP-Configuration components and each component has own set of SARs. 	
CEM Additions and Updates	 PP-Configuration evaluation ETR for PP-Configuration Evaluation (CEM, 9.4.5.3) APE_CCL includes PP-Configuration Added ACE_OBJ.2 Exact Conformance evaluation 	
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NEW in CC:2022 & CEM:2022
 Added to APE_CCL, ASE_CCL, ACE_CCL, ACE_CCO Multi-assurance evaluation Added to ACE_CCO, ASE_INT, ASE_REQ Composite product evaluation Added ASE_COMP.1, ADV_COMP.1, ALC_COMP.1, ATE_COMP.1, AVA_COMP.1 Development evaluation Added evaluation guidelines for ADV_SPM Life-cycle evaluation Added ALC_TDA Others Added Annex C: Evaluation Techniques and Tools

