

IC3S

**Guidance for Evaluation methodology for
product series
(STQC/CC/D19)
Issue : 01**



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Indian CC Certification Scheme

D19 - Guidance for Evaluation methodology for product series


Issue : 01

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0.1 Approval and Issue

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Reviewed by : Management Representative

Approved by : Head, CC Scheme

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1 Purpose

The Common Criteria (CC) methodology allows developers and sponsors to evaluate the security of their products. In this context, some developers or sponsors might need to evaluate a Product series instead of a single product.

2 Scope


The scope of this procedure specifies of a CC evaluation, when the Target of Evaluation (TOE) is a Product series.

3 Definitions

Product series	A Product series is a set of products by a developer, built upon the same functional basis, in order to address the same security needs. However, their design, hardware, firmware or software may vary from a product to another. These differences may come from a different underlying hardware or platform, or may consist in additional functions due to different requirements in scope or performance.
Reference TOE	The product chosen by the developer (or sponsor) as the most representative of the Product series. This Reference TOE will be the main target of the evaluation activities.
Other declared products	All the products that belong to the Product series, except the Reference TOE.
Reference evaluation	The results of the evaluation activities for the Reference TOE.

4 Reference Documents

Evaluation methodology for product series Version 1.0 April 2017 released by Joint Interpretation Library

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5 Input

5.1 Differential Analysis Report (DAR)

In order to distinguish between different products within a Product series, the developer must produce a document called Differential Analysis Report (DAR). This document identifies the shared features, and differences, between the considered products and how these differences may affect to the security objectives and SFRs declared in the applicable Security Target. The contents expected in this document are very similar to those in the Impact Analysis Report.

5.2 Selection of the Reference TOE

The developer must select, within the Product series, a Reference TOE. If no single TOE is representative of the whole series, the developer should either chose several Reference TOEs in order to cover the whole series, or restrict the scope of the series.


5.3 Testing Reuse Rationale (TRR)

The developer must produce a rationale describing its strategy for reusing test results of the Reference TOE(s), based upon the DAR. This Testing Reuse Rationale (TRR) justifies how a sample of tests can be executed on a sample of products, in order to ascertain the security behavior of all the products within the Product series declared in the applicable Security Target.

This document also contains the rationale for the selection of the Reference TOE(s).

5.4 Deliverables

The developer must provide the whole Product series, i.e. the Reference TOE and the Other declared products. At any moment during the evaluation, the CCTL may require the access to any product belonging to the series. The CCTL independently decides on which product(s) they want to execute a given test, and justifies their choice in the ETR.

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6 Application of the evaluation methodology

6.1 Step 1: Applying to an evaluation for a Product series

The developer submits a request for evaluation, along with the elements required by section 5. The CCTL establishes an evaluation plan specifying the expected workload for the ATE and AVA evaluation activities, based upon the TRR provided by the developer. The contents of the DAR are also taken into account by the CCTL in order to define the workload for the ADV, AGD and ALC evaluation activities.

Note: The Certification Body/Validator may challenge the selection of Reference TOE(s) at any moment during the evaluation, and may require additional workload to be allocated, in order to perform further tests on the Product series. In that case, the sponsor may restrict the scope of the evaluation to the Reference TOE(s) only.

6.2 Step 2: Reference evaluation

The CCTL performs the evaluation activities on the Reference TOE(s) according to the selected evaluation criteria, and according to the targeted evaluation assurance level.

6.3 Step 3: Evaluation of the other declared products

Additionally, to the Reference evaluation, the ITSEF must evaluate the following requirements:

ASE

The evaluator shall ensure that the Security Target clearly identifies the Product series, and the products that belong to this series.

ADV


The evaluator shall ensure that the DAR is complete and correct.

AGD

The evaluator shall ensure that the whole Product series is addressed by the AGD_OPE and AGD_PRE classes.

ALC

The evaluator shall ensure that each product within the Product series is uniquely and unambiguously identified.

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The evaluator shall check that all Product series components and any unique identifiers declared in the security target and associated with them, are consistent with the identifier(s) assigned to the Product series evaluated in work units related to ALC_CMC.x.1C and the configuration list evaluated in work units related to ALC_CMS.x.2C.

The evaluator shall verify whether the lifecycle of the Reference TOE(s) also applies to the Other declared products. Any deviation in the lifecycle shall require additional evaluation activities.

ATE

FUN, COV, DPT

Based upon the developer rationale, the evaluator shall ensure that the Reference TOE(s) selected by the developer is (are) representative of the whole Product series.

Based upon the DAR and the TRR, the evaluator shall ensure all the SFR enforcing subsystems, modules and TSFIs that may differ between different products have been separately tested and that all the Product series meets the security objectives declared in the applicable security target.

The evaluator shall eventually give a formal agreement on the TRR.

ATE_IND

The evaluator shall perform this activity according to the TRR.

However, the evaluator may perform additional tests, which are not required by the TRR. Depending on the results of these tests, the evaluator may question the relevance and completeness of the DAR.

AVA

The evaluator shall perform this activity according to the TRR, in order to optimize the penetration testing workload.

The evaluator shall perform dedicated tests on the other declared products if the DAR or the results in the ATE or ADV evaluation activities suggests a possible difference in behavior between different products

6.4 Step 4: Certification

A single certificate will be issued for the whole product series, so as to avoid issuing multiple certificates.