



## Site Certification Process (Status Quo)

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## **Presentation Content**

#### **Description of the Site Certification Process**

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Detailled Information on "How to write a Site Security Target"

Gerald Krummeck atsec information security GmbH, Germany

First Trial-Use-Results of the Site Certification Process Thomas Borsch BSI, Germany

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**Site Certification Process** 

# Background

Certification of a development site

would be a significant benefit for developers who develop multiple products

at one or more sites,

particularly under the same procedures





# Motivation

- Increasing demand for development site certificates coming from different developers
- Reduce time and money for evaluations which will be performed within a short time frame under the same product development conditions
- Extention of the CC to ISMS aspects which become more and more important
- Improvement of the acceptance and opening of new markets for the Common Criteria

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# Further ("Side-") Aspects

There is an obvious imbalance of the criteria between the security provided by the TOE and the Development Environment of the TOE.

The Site Certification Process could achieve a harmonized application of the ALC-Requirements.





# **Two possible Strategies**

#### 1. Re-Use of ALC material

In order to re-use already certified CM system related aspects references to previous TOE evaluation(s) will be made .

#### 2. Developer Site Certification

A separate CC certificate will be issued to confirm that a specific development environment fulfils the CC requirements regarding the related ALC class.

This can be seen independently from a TOE evaluation. Special ISMS definitions may be taken into account.





# **Reusability-Problems**

- Disadvantages occur when an expensive Site Visit has to be reperformed in the case of Minor Changes of the Development Site
- How to handle Reusability if the Developer changes the Evaluation Lab or the Certification Body
- How can ALC be classified into reusable and not reusable parts and how can the reusable parts be claimed in an evaluation?

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# Further Development of the Reusability Approach

#### We have added flexibility and efficiency by:

- Noting that ALC is independent to other CC-Aspects
- Splitting the evaluation between them

#### The same goes for complex evaluations where:

- parts of the "Site" may be relatively independent

### Splitting the site may therefore also help





## Main Advantages of Site Certification

- Site Certificate can be completely separated from the TOE certificate.
- It provides an easy entry into the CC market for a developer. First get a site certificate, then a TOE certificate.

A "certificate to hang on the wall" could be a marketing advantage.

 An organization can obtain and maintain its own certificate and provide this to any developer who wants it.

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# Definition of a "Site"

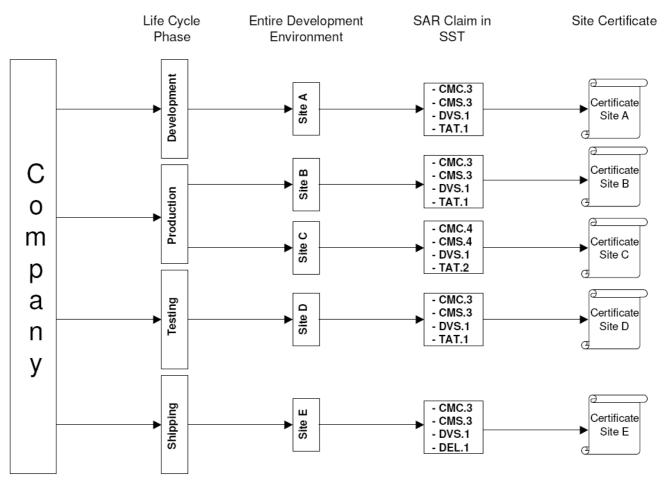
A developer can choose to divide his site into "Subsites" also called "Sites".

- A Site can be the whole site
- A Site may consist of one physical location, may span multiple physical locations, or a Site may be a part of a physical location
- A Site may consist of one organizational unit, may span multiple organizational units, or a Site may be a part of an organizational unit.





# **Definition of the Site Scope**

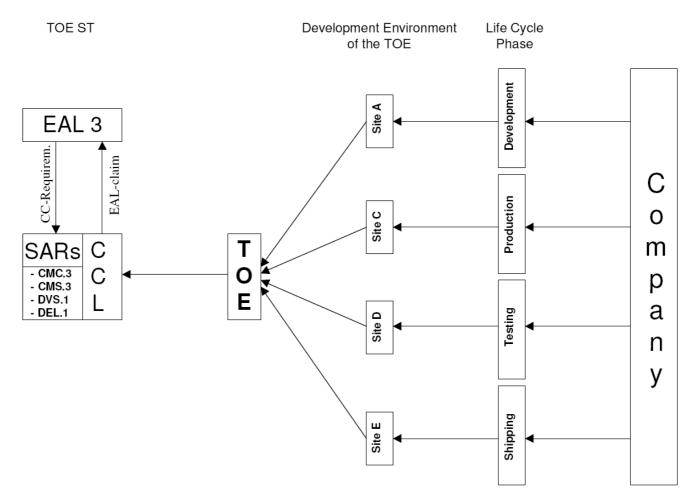


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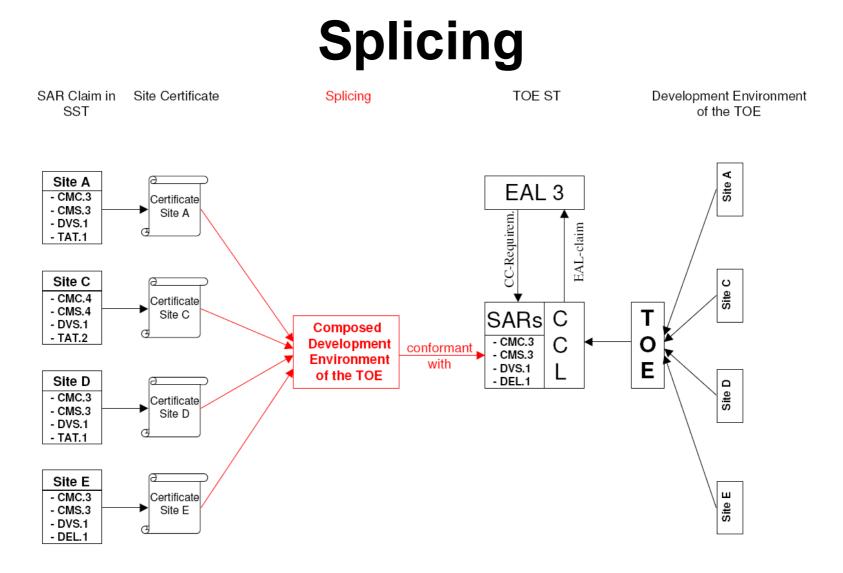
## **TOE ALC-Evaluation Base**







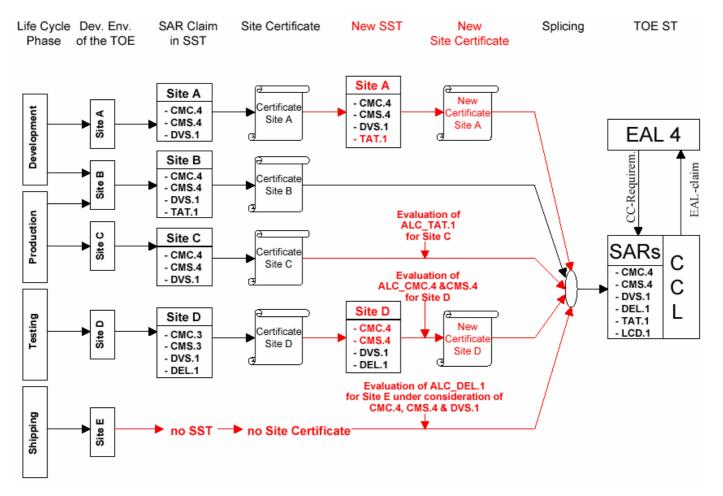
#### **Site Certification Process**







## Integration of non-certified parts

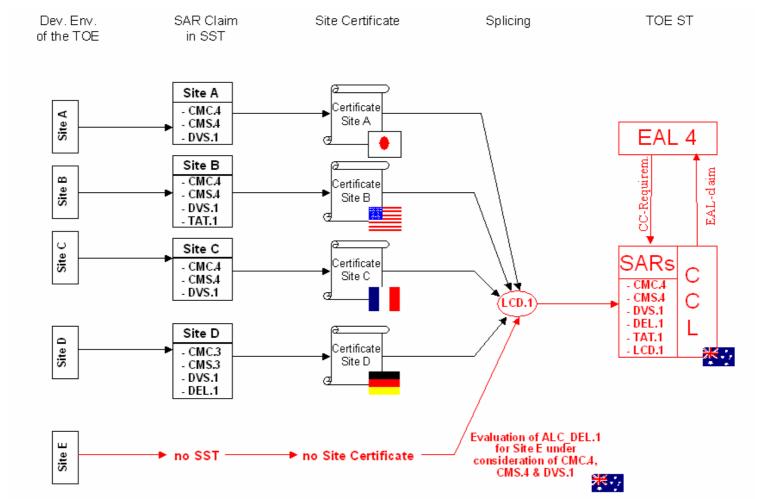






#### **Site Certification Process**

## **Site Certification throughout Schemes**







# Minimum & Optional SARs

#### Minimum SARs:

- CMC.3 (or hierarchically higher)
- CMS.3 (or hierarchically higher)
- DVS.1 (or hierarchically higher)

#### **Optional SARs:**

- DEL.1
- TAT.1 (or hierarchically higher)
- LCD.1 (or hierarchically higher)
- FLR.1 (or hierarchically higher)





# **Content of Site Security Targets**

- SST-Introduction
- Conformance Claim
- Security Problem Definition
- Security Objectives for the Development Environment
- Extended Components Definition
- Security Requirements
- Site Summary Specification





**Site Certification Process** 

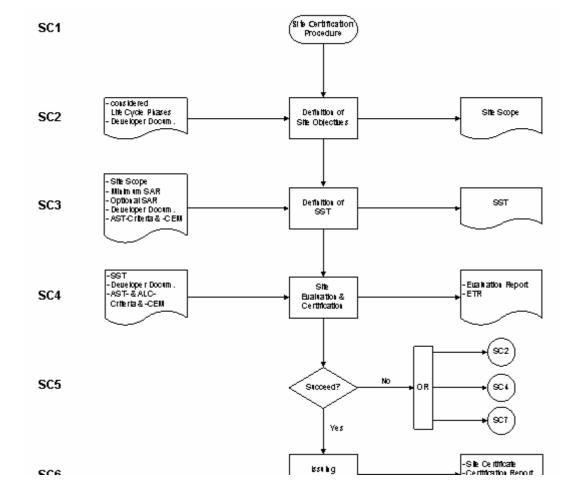
## Application Notes for Site Certification

- No changes of the general content of the criteria and/or the methodology of the Common Criteria needed.
- Only adaptations or specific explanations are needed by including Site Certification related Application Notes which give instructions how to use (interpret) certain CC-Requirements (C-Element).





## **Well Defined Process Struture**







## **Questions to be solved**

- How to handle changes of sites which occur all the time? That means, do we need specific Maintenance Procedures for Development Sites?
- Is it necessary to add Site Certification to the CCRA?





# Summary

- The ALC-Reusability-Approach can only be seen as a first step in saving Evaluation Efforts
- Reusability does only have a limited Applicability since several Technical Problems remain
- Site Certification can solve all these Technical Problems and will save an considerable amount of Evaluation Efforts
- There is an actual need and a new market for the CC to issue Site Certificates

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# **Current Feedback**

- Positive Feedback and Acceptance from different Communities/Schemes/Industry
- They would like to see Site Certification as part of the Common Criteria
- Several Developers volunteered for the Trials







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