



CISCO



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CCAL Overview



- Scope of the Certification
- Refined Objectives for the European CSP Service Certification
- Assurance Levels
 - Role of Risk Management in Determination
 - Characteristics and Requirements for the Assurance Levels
- Ensuring EU-wide Recognition of Certificates through Consistency of Assurance Levels

CCAL Overview



- CSPCERT WG Defines 26 Recommendations for ENISA and the EU Commission Related to Certification Assurance Levels
- Recommendations are tied directly to the European Union Cybersecurity Act (EUCA)
- CCAL Focus Primarily on Article 51 and Article 52 of the EUCA
- Provides for Examples that could be utilized in the selection of a Certification
 Level of Assurance based on risk scenarios and risk assessments taken by an
 end-user for a Cloud Service
- Provides for CSP certification perimeters and the addition of new sectoral requirements or overlays to the certification
- Provides for Cybersecurity act's assurance requirements and their correspondence to the different assurance levels

CCAL: Scope of the Certification



"In order to be certified, the cloud service must meet all the requirements of the certification scheme reference documents that are applicable to the service boundary (e.g. laaS, PaaS, SaaS, XaaS) and the chosen level of assurance."

CSPCERT, Milestone 3.

CCAL: Refined Objectives for the European CSP Service Certification



"The assessment of the correct implementation of the controls that achieve the security objectives listed in the Milestone 1 document (see Annex 1) with a methodology from the ones listed in the Milestone 2 document should be a guide to ensure that all these objectives are fulfilled regarding a certain assurance level."

CSPCERT, Milestone 3.

CCAL: Refined Objectives for the European CSP Service Certification



- Focused on Article 51 of EUCA
- First 10 Recommendations Fall Under Article 51
- All CSPCERT Recommendations are numbered and come with a Justification statement.

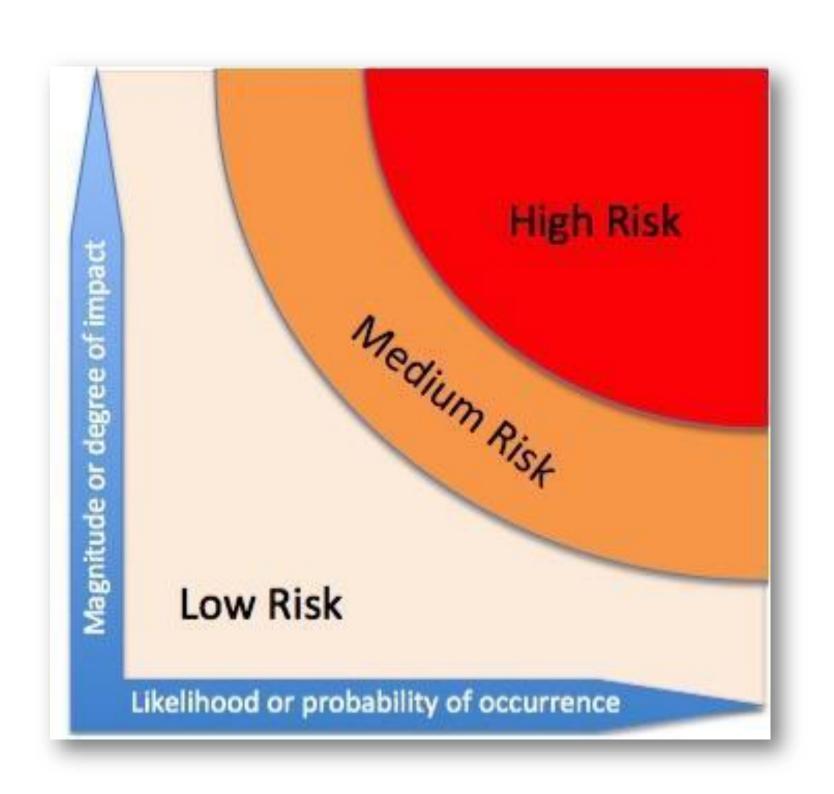
REC4: ENISA, should establish guidelines for a continuous auditing process for certified offerings, which would be proportionate with the CCAL of the offer.

Justification: Clear guidance on the audit cycle of any certification is foundational to any certification framework. This must be established, for each of the assurance levels.

CCAL: Assurance Levels and Risk Assessment Correlation



- Focused on Article 52 of EUCA
- Recommendations 11-21, Fall Under Article 52
- "Performing a proper risk analysis
 requires that both dimensions need to
 be considered and assessed. Based
 on the outcome of the risk
 assessment, a required level of
 assurance can be determined."
 CSPCERT, Milestone 3.



CCAL: Assurance Levels

Defined Areas Impacted by Recognized Risks





CCAL: Assurance Levels

Defined Areas Impacted by Recognized Risk

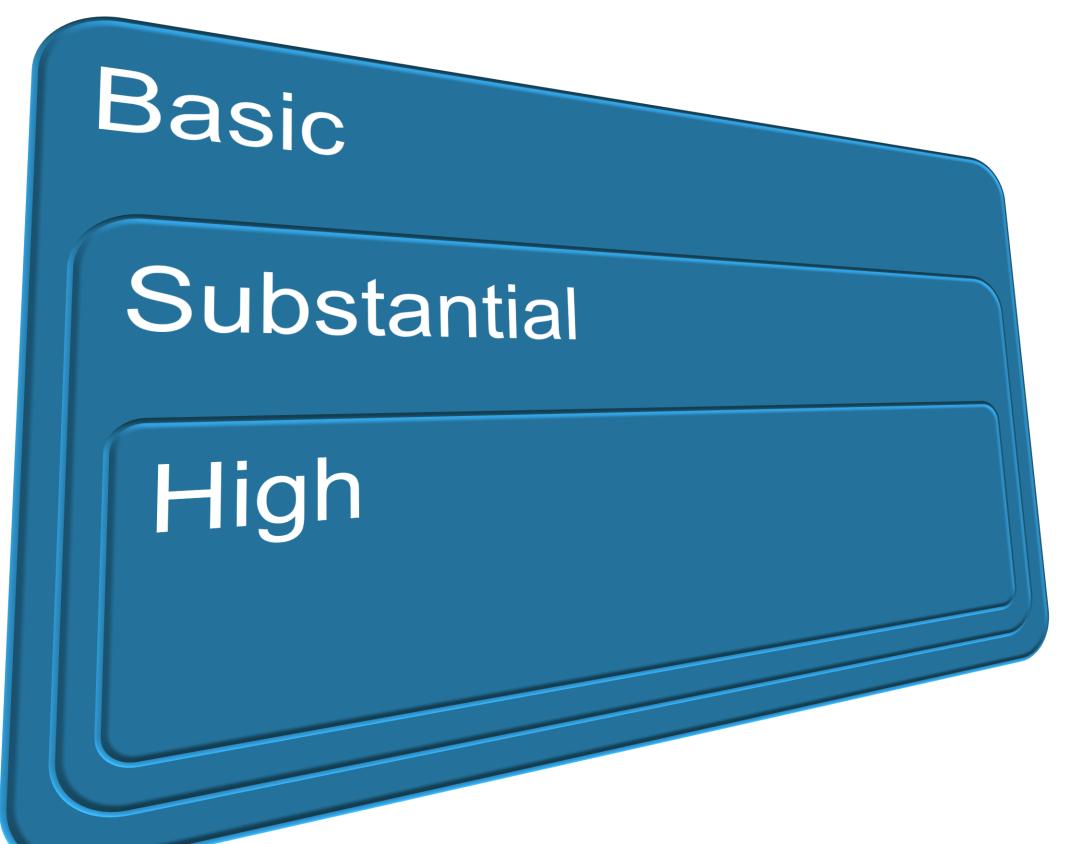




CCAL: Assurance Levels as Defined in EUCA



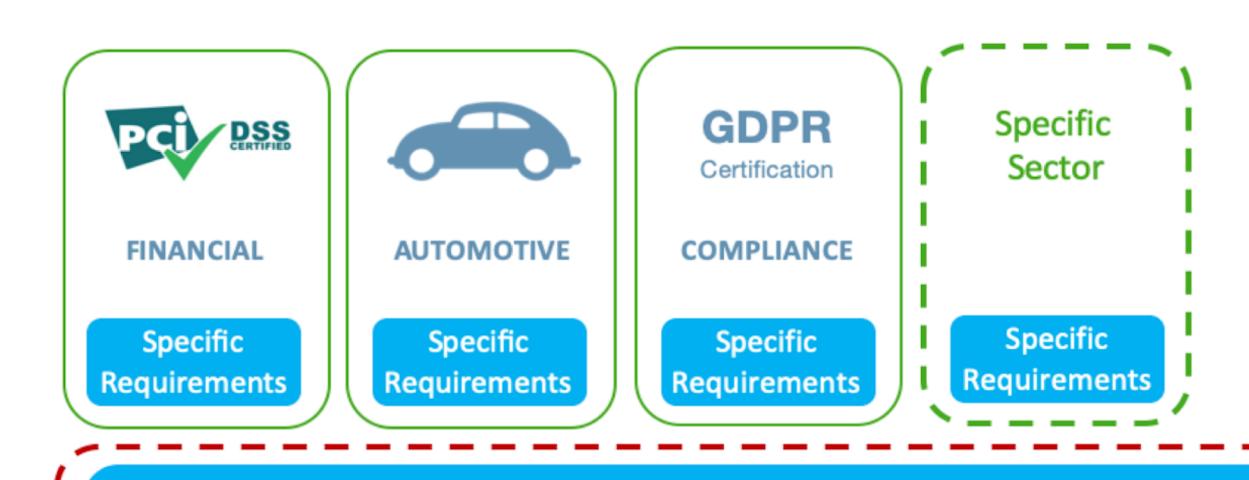
Article 52



CCAL: Assurance Levels



CSP Certification Perimeter & Addition of New Sectoral Requirements



CSP Certification Perimeter



Baseline CSP service (SaaS, PaaS, IaaS), Certified Assurance level: High, Substantial or Basic

CCAL: Ensuring EU-Wide Recognition



- Recommendations 22-26 Focus on Level of Trust, Fidelity, and Certificate Acceptance
- Introduce the Concepts of Audit Level of Detail relevant to Assurance Level
- Introduce Peer Review Mechanisms
- Introduce Governance's Import (Addressed in Detail in SGOV)
- Recommends NCCA Endorses the Final Audit Reports and Issuance of Certificate

Cyber Security Act Requirements (CSAR)





Tom Vreeburg
Independent IT Risk and Assurance professional
Advisor to the board of NOREA.

NOREA Netherlands

CSAR Part



EU Cybersecurity Act (EUCA) provides cybersecurity certification framework (Section III, Art 46 a.o.)
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CSPCert provides recommendations for ENISA to prepare a European Cybersecurity Certification Scheme for Cloud Service Providers
EUCA, Art 46: 'European cybersecurity certification scheme' means a comprehensive set of rules, technical requirements, standards and procedures that are established at Union level and that apply to the certification or conformity assessment of specific ICT products, ICT services or ICT processes;
Requirements for a scheme in particular in EUCA art 54 and 55

EUCA Art 54



Elements of European cybersecurity certification schemes

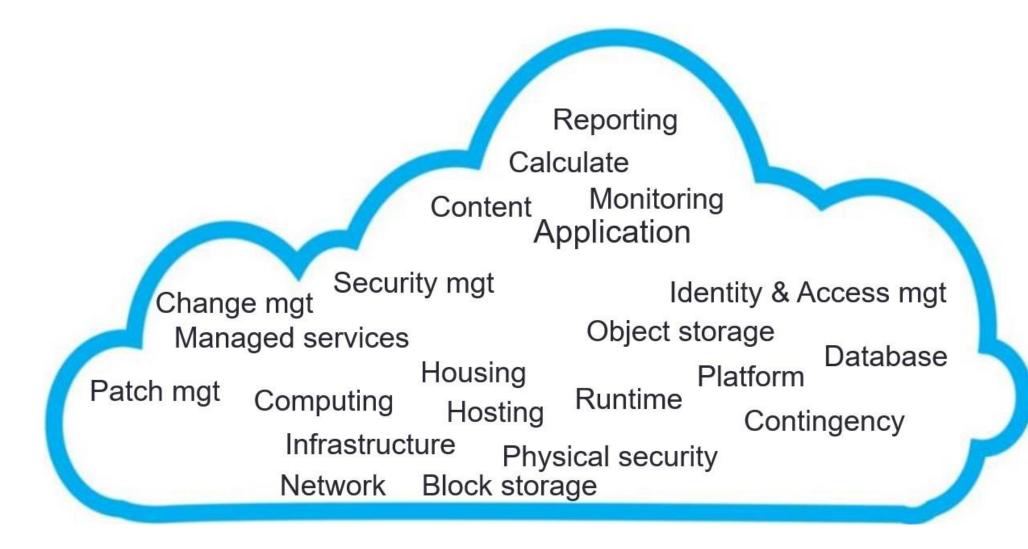
22 elements provide minimum requirements

CSPCert added 20+ recommendations to provide guidance to ENISA how to detail these elements in the EU Cybersecurity Certification Scheme for Cloud Service Providers

Scope



- Purpose of the scheme:
 - Provide stakeholders with statement on scope, reliability and security of cloud service
 - Enhance credibility/confidence/ trust of statement by CSP
- Scoping in a cloud environment



Information provided by Cloud Service Provider





Information needed for issuance of the certificate

Identification

CSP's Conformity statement

CSP's description of the service

•Control objectives, related controls and tests of controls

Other information



Supplementary cybersecurity information (EUCA Art 55)

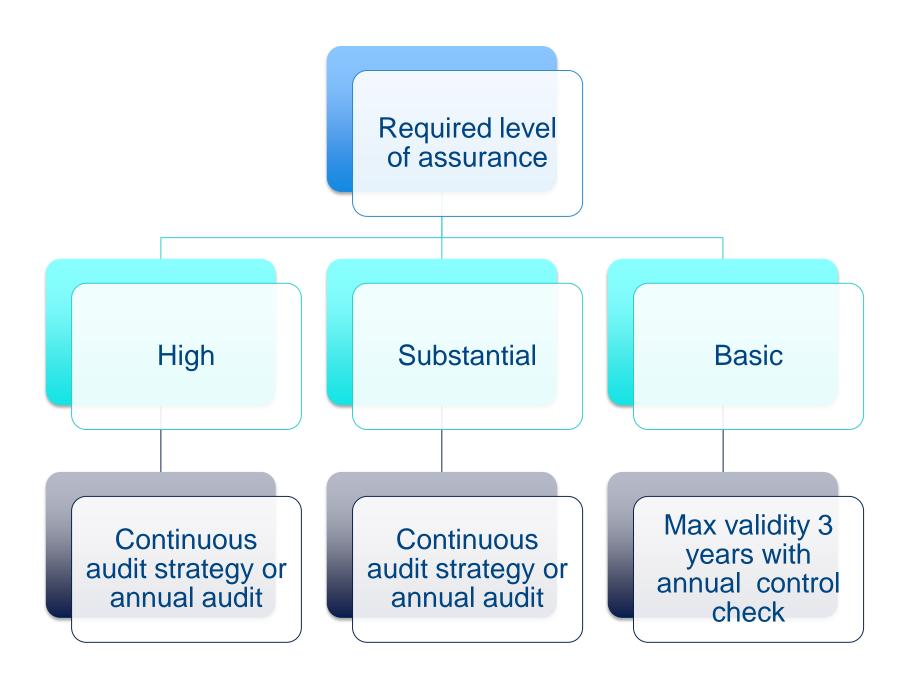


Consequences of non-compliance with requirements of the scheme





Maximum period of validity



Scheme Governance (SGOV)





Thomas Niessen

Managing Director

Kompetenznetzwerk Trusted Cloud e.V.

Germany

SGOV Part



- Commons parts between all assurance levels
 - Committee and groups
 - Complaints management
 - Peer Review
 - Community management
- Specific governance recommendations
 - For each assurance level
 - Basic, Substantial and High

Committee and groups (EU level)

Group





Complaints Management





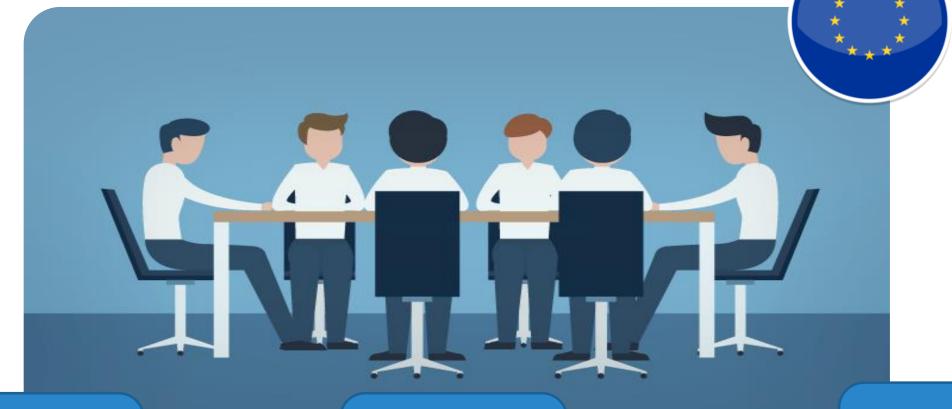
Peer reviews





Community management











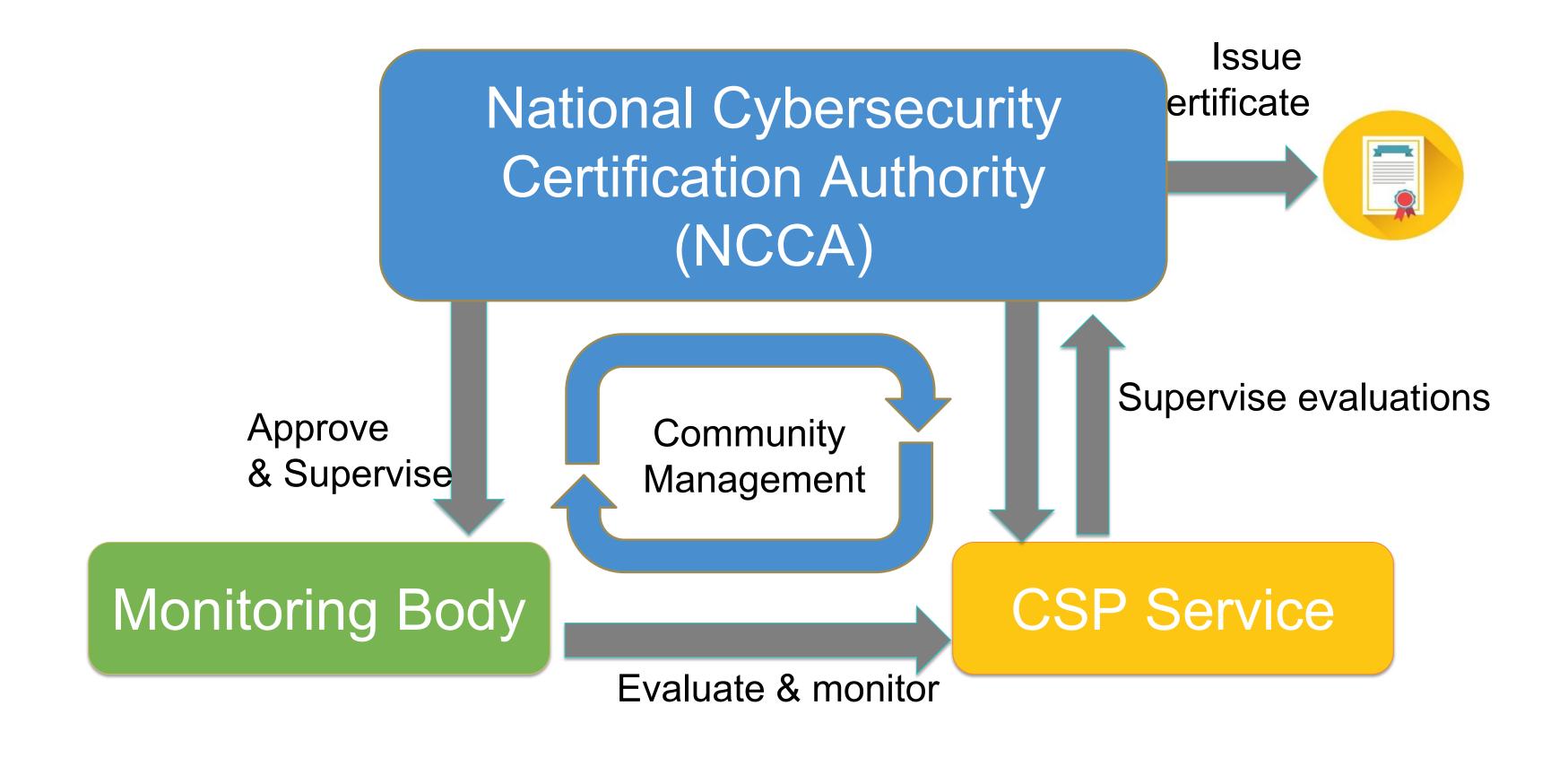


NCCA &



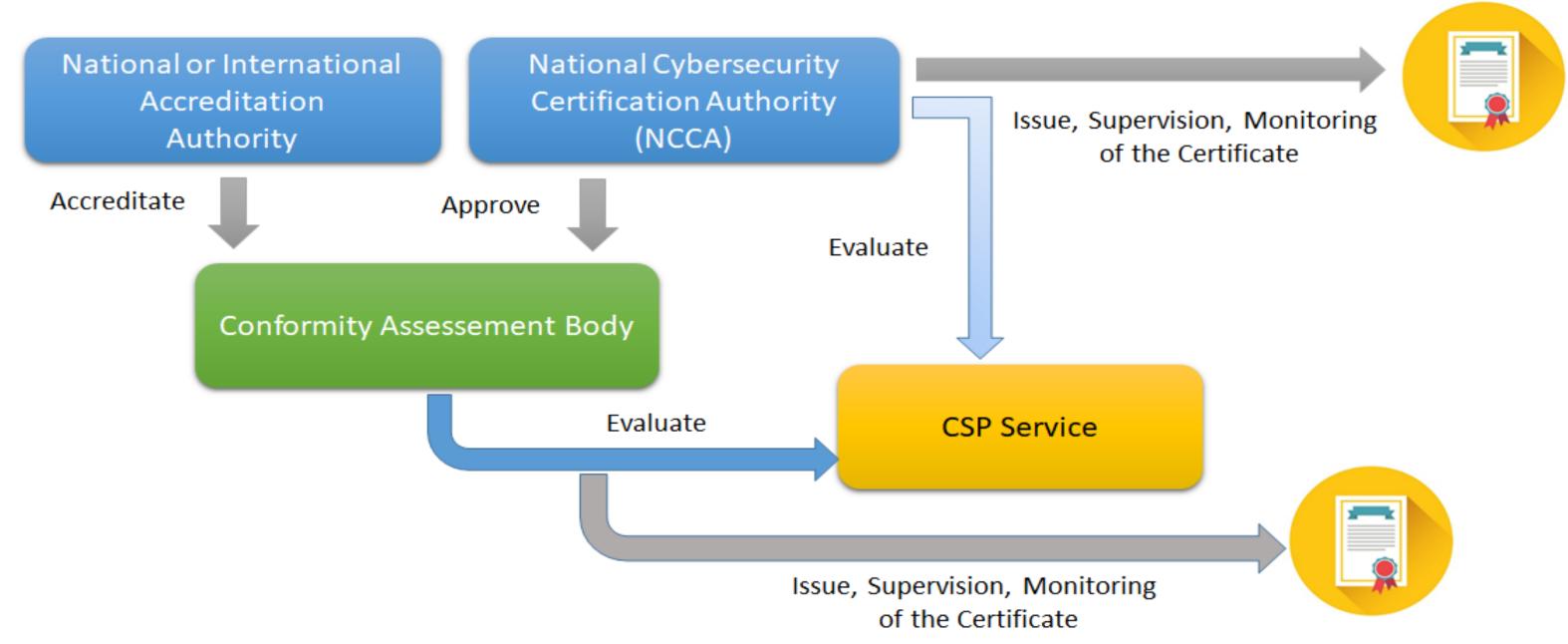
Assurance level Basic





Assurance level Substantial

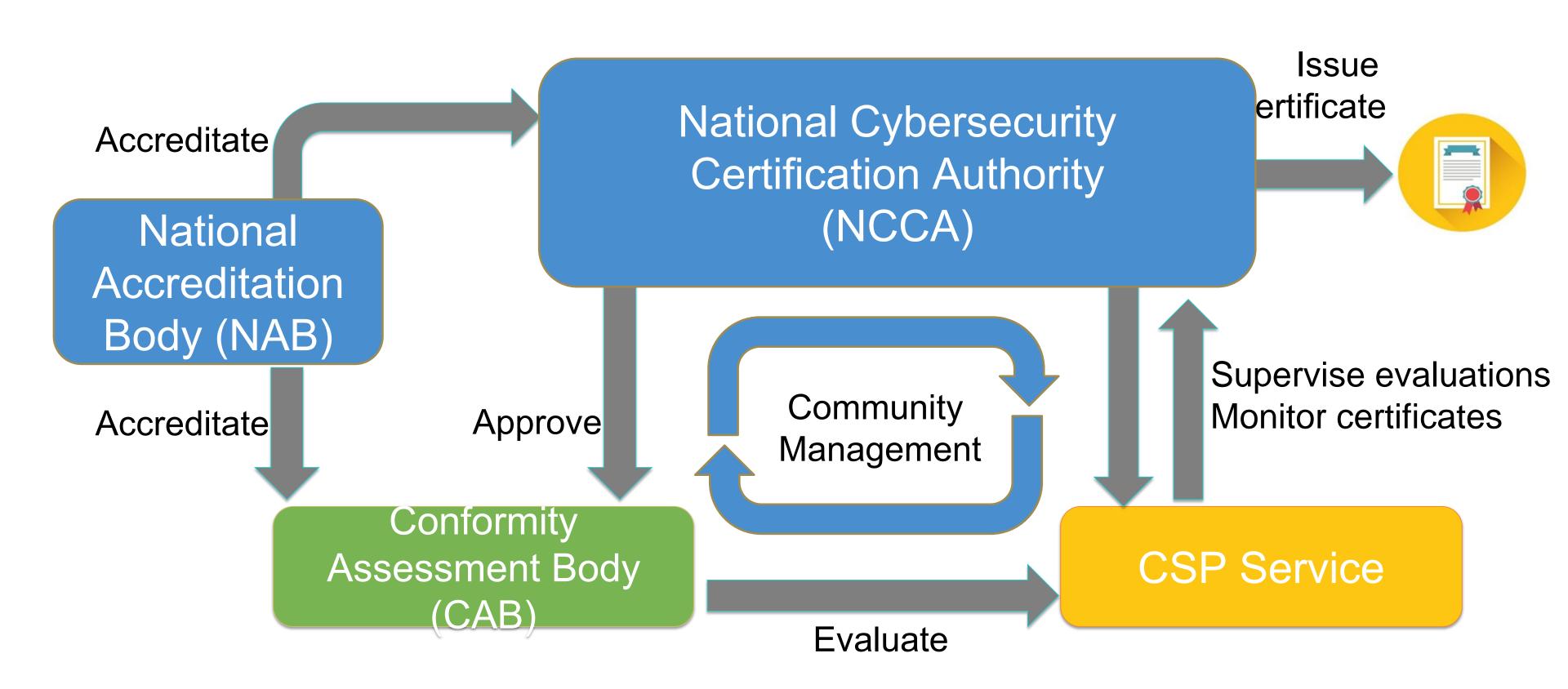




- 1 The NCCA can have an evaluation step as part of final certification in some instances for Substantial.
- 2 The NCCA can delegate or approve a Conformity Assessment Body to perform CSP Evaluations.
- 3 Where the NCCA has absorbed responsibility for evaluation, they inherit responsibility for supervision and monitoring of the issued certificate.

Assurance level High





Conclusion and recommendations







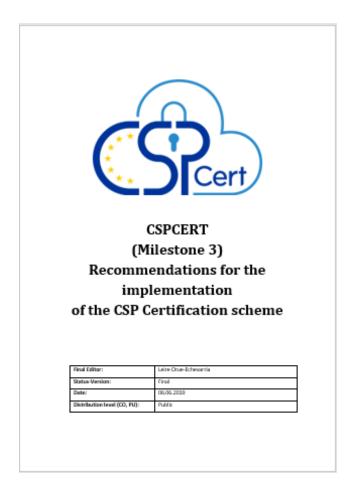
Bert Tuinsma
Chairman of Zeker-OnLine
Issuer of trust certificates to Cloud Services Providers
The Netherlands

General recommendation





To include the development of an EU-wide cloud security certification scheme in the EU rolling work programme for European cybersecurity certification framework under the EUCA



To request ENISA to prepare a candidate scheme on the basis of the present proposal

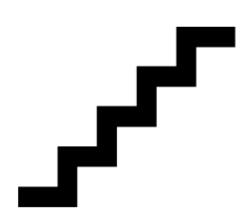
General recommendation



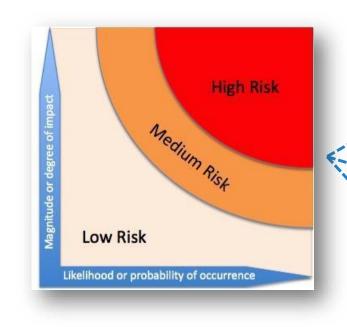
CSPCERT does not recommend a completely new certification scheme but rather for a scheme based on existing practices/schemes/standards used by the industry and internationally recognized



Assurance levels required



3 levels of assurance: Basic, Substantial and High, depending on the risk level associated



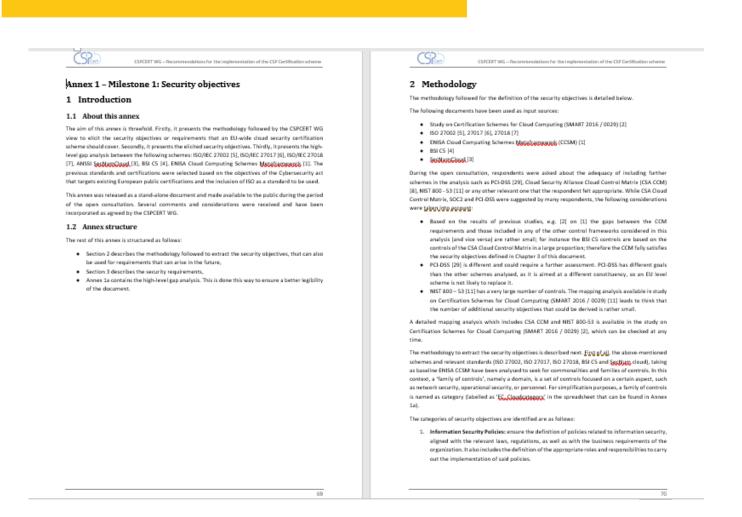
Clear guidance on how to perform this risk assessment and link the assurance level to the cloud service

A description of what the basic/substantial/high assurance level indicates

Examples of which level of assurance should be associated with which service



Evaluation criteria



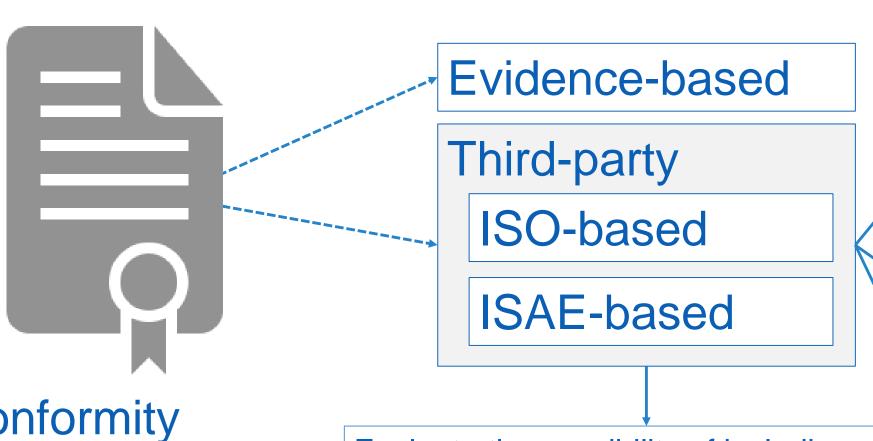
Keep a similar taxonomy and update it when appropriate

Keep a similar methodology for the inclusion of new controls and update it accordingly

Defined a set of Security Objectives, with a taxonomy and a methodology to include new ones, when required



Conformity Assessment Methodologies



3 conformity assessment methodologies (CAM)

Evaluate the possibility of including continuous monitoring for High

Frequency of renewal and what triggers it

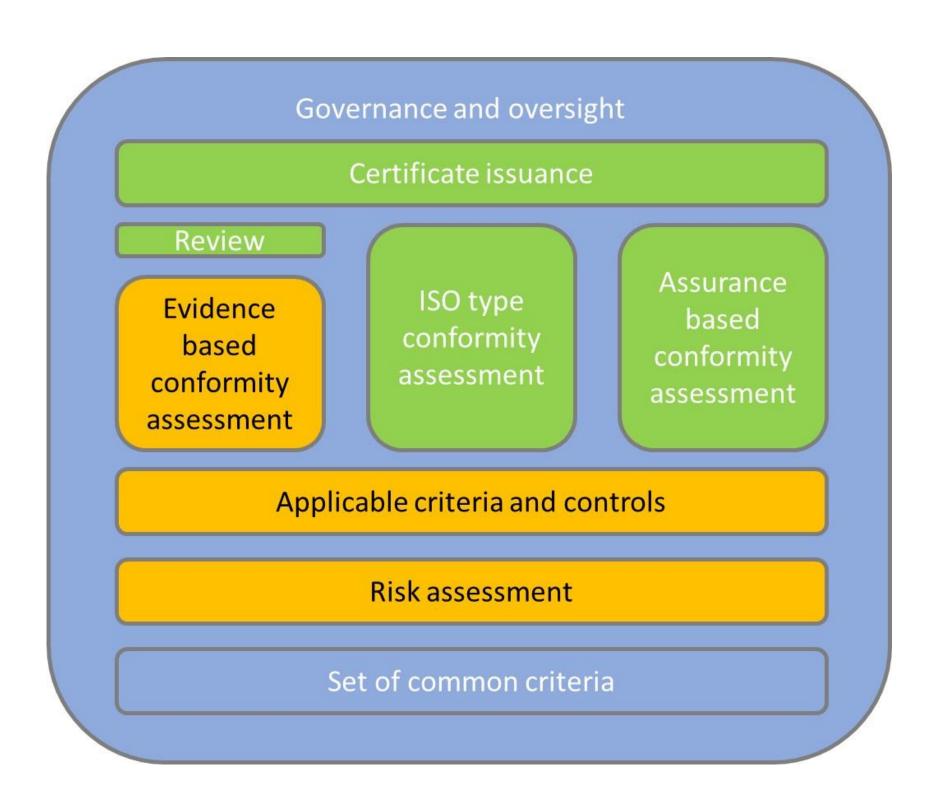
To reduce the level of bias, assess third-party conformity assessment methodologies for safeguards to ensure a common level of trust

Clear guidance on the required procedures and criteria per assurance level

CAMs must measure operational effectiveness in S and H, and not merely control existence



Summary







www.cspcert.eu

