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ISACA
Barcelona Chapter

TISAX®

Transformando la Seguridad en la industria de Automoción

Alex Komlev

24 April 2024

TISAX®

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Agenda

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02	Main goals
03	TISAX® VDA structure
04	TISAX® vs ISO27001
05	5 reasons why company should get TISAX®
06	Basic documents
07	Certification process
08	Assessment process
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What is TISAX®?

Basic introduction.

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Trusted Information Security Assessment Exchange

- TISAX is an assessment and exchange mechanism for information security in the automotive industry. The TISAX label confirms that a company's information security management system complies with defined security levels and allows sharing of assessment results across a designated platform.

- The Original Equipment Manufacturer (**OEM**) collaborates with multiple companies across the value chain for the design, manufacturing, and distribution of their vehicles. To facilitate collaboration, the OEM frequently shares confidential information, such as a ***prototype*** design, with the suppliers. If valuable data is not effectively protected, the exchanges along the supply chain may cause losses, manipulations or even theft of trade secrets.

- The TISAX scheme is based on the international standard **ISO 27001**

- The TISAX scheme was launched in 2017 and is managed by the ENX. (enx.com)

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Brief introduction to TISAX: main goals

INDUSTRY

Creation of a common level of security for the automotive industry

QUALITY

Ensure the comparability and quality of the assessments

CHECK

Ensuring common recognition of the audit (VDA ISA)

RESULTS

Exchange best practices and experiences

COSTS

Reduce cost, effort and complexity

SHARE

The auditee can freely choose with whom and in what level of detail they share their results.

TISAX® requirements (IS, 45 controls)

Information security management

The company must have an information security management system (ISMS) in place that complies with the requirements of the international standard ISO/IEC 27001.

HR

The company must have a good control of its human resources and provide sufficient training to employees and stakeholders.

Physical security

The company must have measures in place to protect its physical assets, such as buildings, equipment, and documents, from unauthorized access, theft, and damage.

Business continuity

The company must have plans in place to ensure the continuity of its business operations in the event of a security incident or other disruption.

Incident management

The company must have procedures in place to detect, report, and respond to security incidents and breaches.

Access controls

The company must have controls in place to ensure that only authorized individuals have access to its information systems and data

Third-party management

The company must have processes in place to manage the security of its third-party suppliers and service providers.

Legal and Data protection

The company must have measures in place to protect personal data in accordance with GDPR and other applicable data protection laws.

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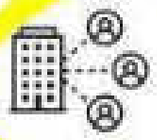
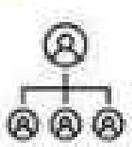
TISAX® requirements (PP, 22 controls)



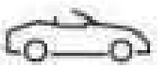
Physical security

The customer must have controls in place for external/internal physical security of its facilities



Organizational Requirements

All customers handling prototypes or parts must have special controls in place for legal compliance, subcontracting, classification and photography.



Handling of vehicles

The customer must have a measure to protect vehicles, proto parts and components during transportation and parking.

Trial vehicles

The customer must have procedures in place to protect trial vehicles following customer-specific requirements.

Events and shootings

The company must have in place specific controls regarding planning, preparation or execution of events or shootings.

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TISAX® requirements (DP, 12 controls)

Data Protection

The company must have a good data protection control to determine the basic suitability of a service provider to act as a processor within the meaning of Article 28 of the EU GDPR.

Main differentiation between TISAX and ISO27001.

01 02 03 04 05

Main differentiation between TISAX and ISO27001.

01

Industry-specific requirements

The TISAX scheme includes industry-specific requirements.

ISO/IEC 27001 is a generic standard that can be applied to any industry.

02

Assessment and certification

TISAX requires an assessment and certification by a TISAX-accredited assessment provider.

ISO/IEC 27001 requires certification by an accredited certification body.

03

Scope of the assessment

The scope of the TISAX assessment is defined by the customer or the supplier.

The scope of the ISO/IEC 27001 assessment is determined by the organization.

04

Information sharing

The TISAX scheme includes a framework for information sharing between organizations.

ISO/IEC 27001 does not include a similar framework.

05

Emphasis on supply chain

The TISAX scheme places a strong emphasis on supply chain management.

ISO/IEC 27001 does not include such specific requirements.

But the ISO/IEC 27001 implemented in the organization is a **perfect starting point** in the TISAX certification process.

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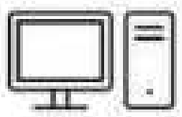
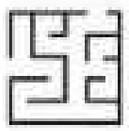
Is it difficult to implement TISAX if I have ISO27001?

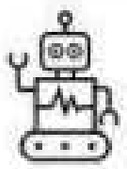
If your organization already has an ISO 27001-certified Information Security Management System (ISMS), you are in a **good position to implement TISAX**.



- TISAX builds on ISO 27001 and includes **additional industry-specific requirements** that are specific to the automotive industry.



- To ensure a successful TISAX certification, it's important to fully understand the TISAX requirements and how they differ from ISO 27001.



- Working with an experienced ***TISAX consultant*** can also help ensure a smooth and successful TISAX certification process.

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5 reasons why company should get TISAX®

1. INDUSTRY STANDARDS

TISAX certification demonstrates a company's commitment to information security and its ability to meet the stringent requirements of the standard.

2. IMPROVED REPUTATION

TISAX certification can enhance a company's reputation and credibility.

3. COMPETITIVE ADVANTAGE

TISAX certification can provide a competitive advantage over companies that have not been certified.

4. INCREASED TRUST

TISAX certification can increase trust and confidence among stakeholders.

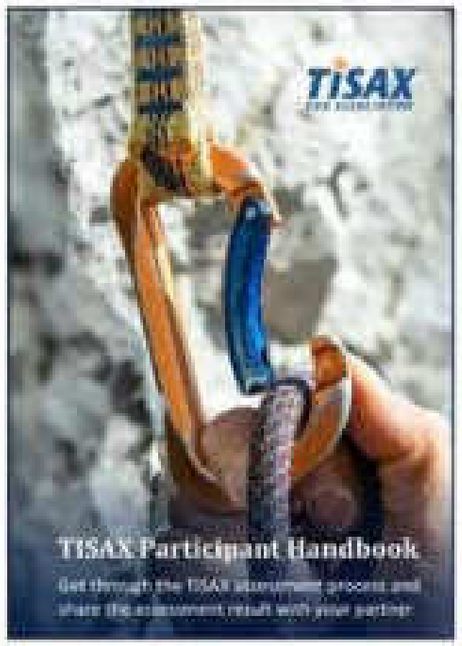
5. REDUCED RISK

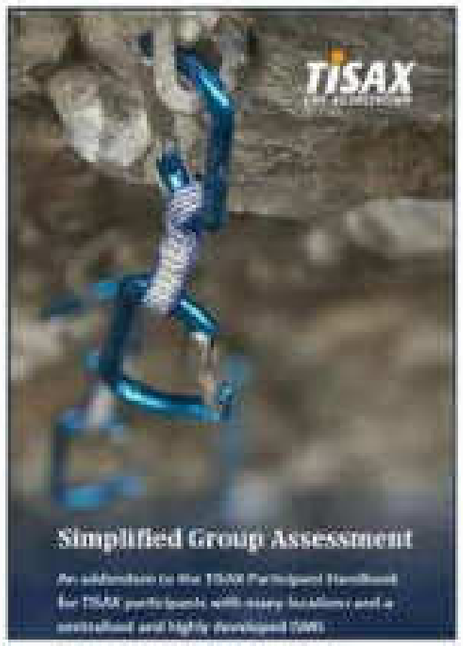
TISAX certification can help reduce the risk of data breaches, cyber attacks, and other security incidents.

Documents

essentials for implementation, training and audits

Minimum documents/material: *enx.com*





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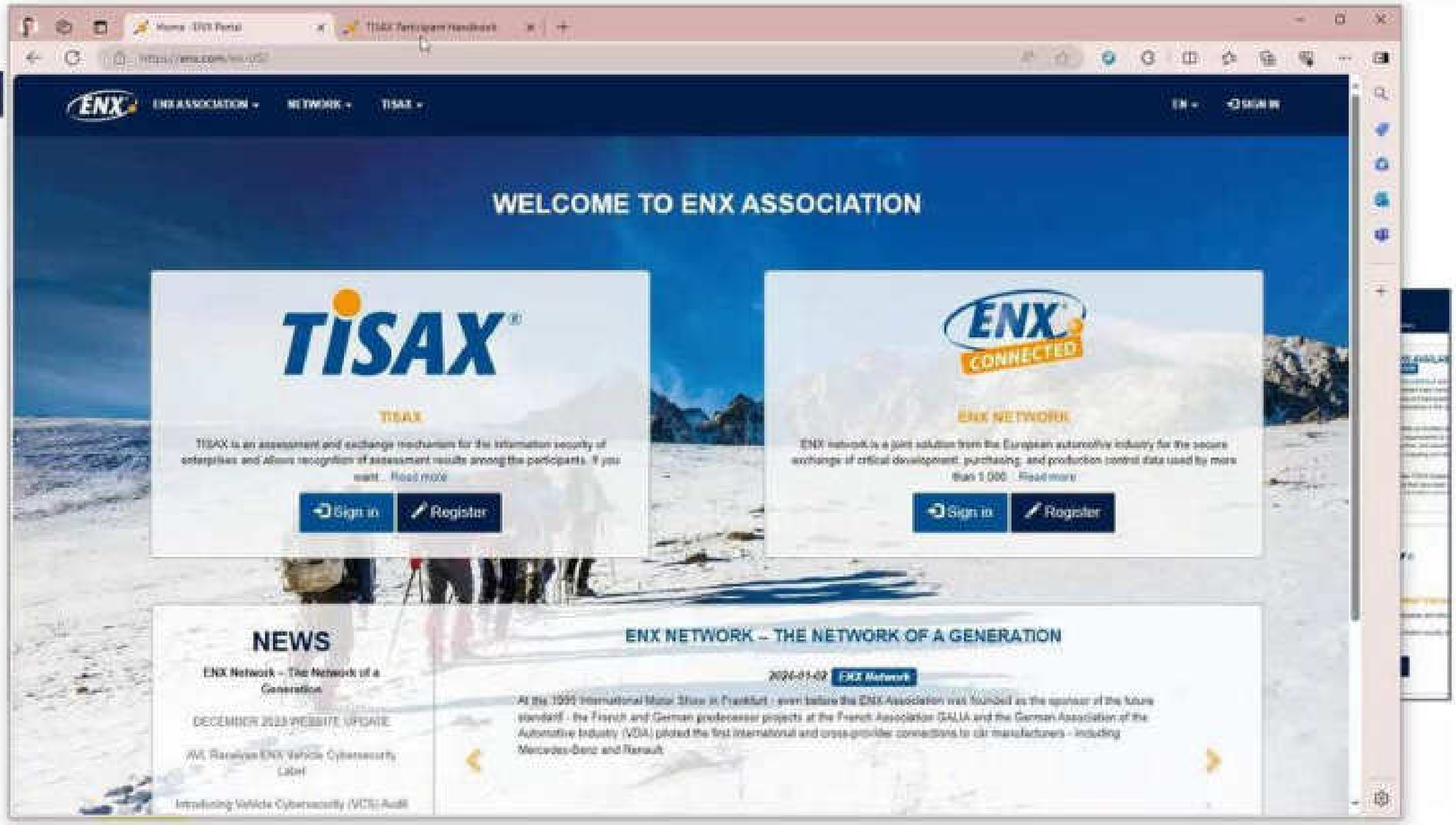
ENX
ENX ASSOCIATION
NETWORK
TISAX
EN
SIGN IN
WELCOME TO ENX ASSOCIATION
TISAX
TISAX
TISAX is an assessment and exchange mechanism for the information security of enterprises and allows recognition of assessment results among the participants. If you want... Read more
Sign in
Register
ENX CONNECTED
ENX NETWORK
ENX network is a joint solution from the European automotive industry for the secure exchange of critical development, purchasing, and production control data used by more than 1,000... Read more
Sign in
Register
NEWS
ENX Network – The Network of a Generation
DECEMBER 2023 WEBSITE UPDATE
AVL Receives ENX Vehicle Cybersecurity Label
Introducing Vehicle Cybersecurity (VCS) Audit
ENX NETWORK – THE NETWORK OF A GENERATION
2024-01-02 ENX Network
At the 1999 International Motor Show in Frankfurt - even before the ENX Association was founded as the sponsor of the future standard - the French and German predecessor projects at the French Association GALIA and the German Association of the Automotive Industry (VDA) piloted the first international and cross-provider connections to car manufacturers - including Mercedes-Benz and Renault.

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Table of contents

English

4.2. You are a TISAX participant

Let us first introduce a new term that is necessary to understand. So far, you have been the "supplier". You are here to fulfil a requirement of your "customer". TISAX itself however does not really differentiate between these two roles. For TISAX, everyone who registered is a "participant". You — as well as your partner — "participate" in the exchange of information security assessment results.

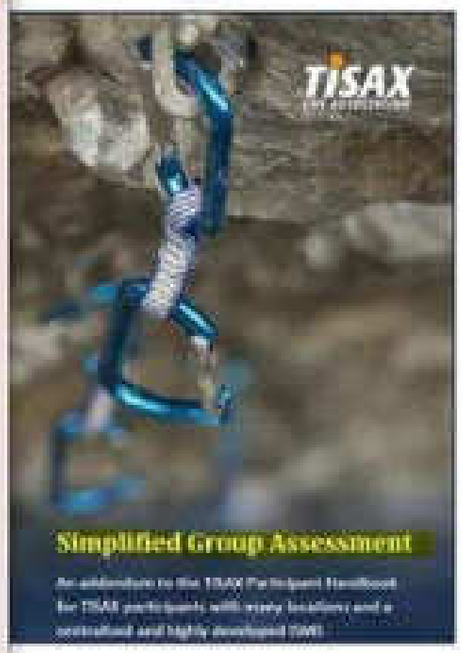
Figure 2. Register to become a TISAX participant.

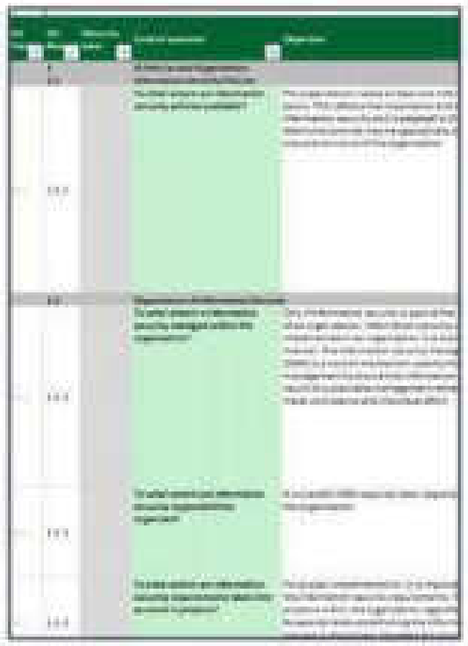
To differentiate the two roles from the beginning, we refer to you, the supplier, as "active participant". We refer to your partner as "passive participant". As an "active participant" you get TISAX-assessed and you share your assessment result with other participants. The "passive participant" is the one who requested that you get TISAX-assessed. The "passive participant" receives your assessment result.

Figure 3. Passive participant and active participant.

Any company can act in both roles. You might share an assessment result with your partner, while at the same time requesting your own suppliers to get TISAX-assessed.

nents/material: *enx.com*





2

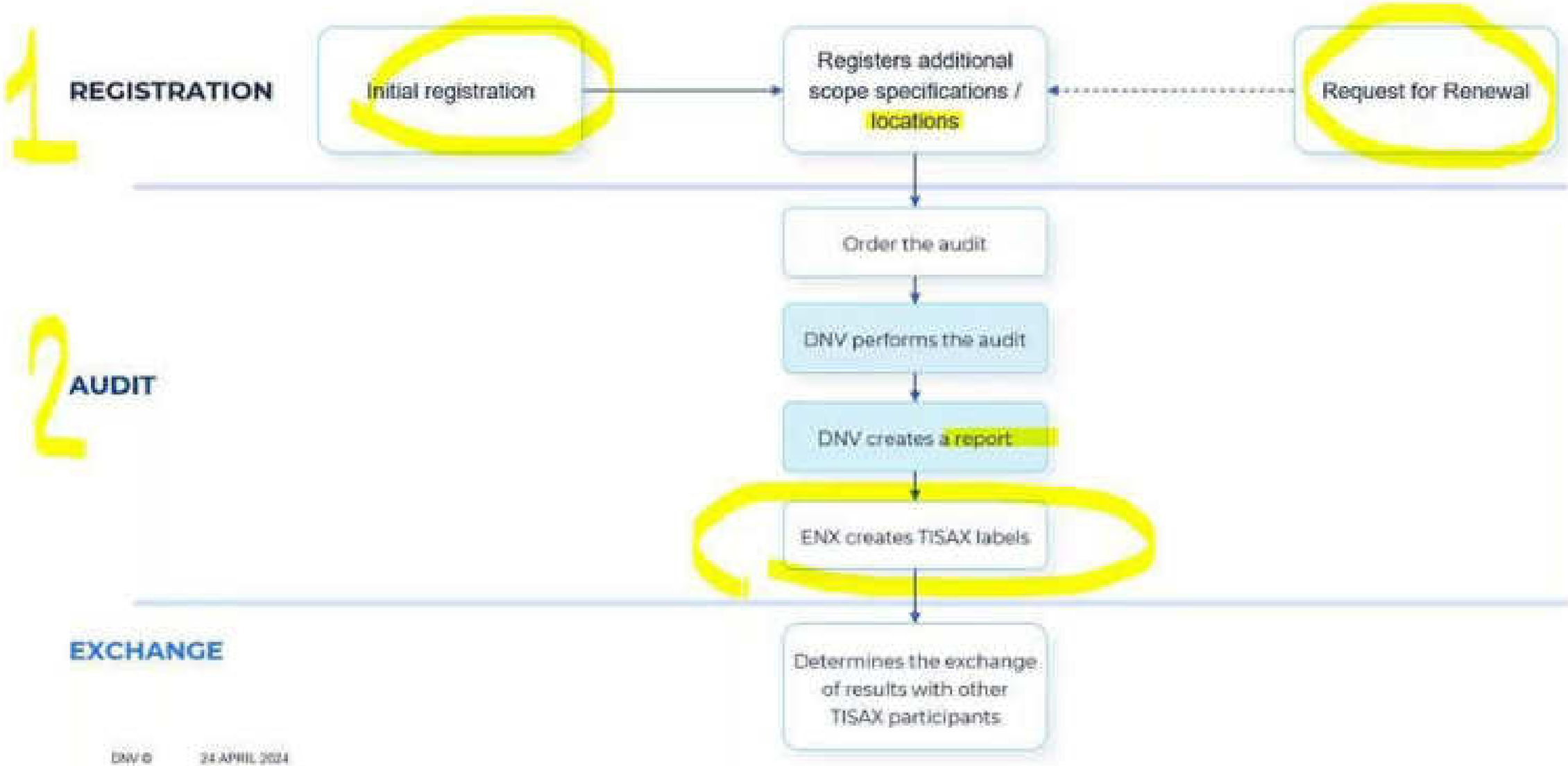

TISAX

TISAX certification process label lifecycle

Overview TISAX process

EXCHANGE

Overview TISAX process



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Assessment objectives

	No.	Name	Description	
INFO SEC	1	Info high	Handling of information with high protection needs	AL2
	2	Info very high	Handling of information with very high protection needs	AL3
	3	Confidential	Handling of information with high protection needs in the context of confidentiality (access to confidential information)	AL2
	4	Strictly confidential	Handling of information with very high protection needs in the context of confidentiality (access to strictly confidential information)	AL3
	5	High availability	Handling of information with high protection needs in the context of availability (high availability of information)	AL2
	6	Very high availability	Handling of information with very high protection needs in the context of availability (very high availability of information)	AL3
PROTO	7	Proto parts	Protection of Prototype Parts and Components	AL3
	8	Proto vehicles	Protection of Prototype Vehicles	AL3
	9	Test vehicles	Handling of Test Vehicles	AL3
	10	Proto events	Protection of Prototypes during Events and Film or Photo Shoots	AL3
DATA	11	Data	Data protection according to Article 28 ("Processor") of the European General Data Protection Regulation (GDPR)	AL2
	12	Special data	Data protection according to Article 28 ("Processor") of the European General Data Protection Regulation (GDPR) with special categories of personal data as specified in Article 9 of the GDPR	AL3

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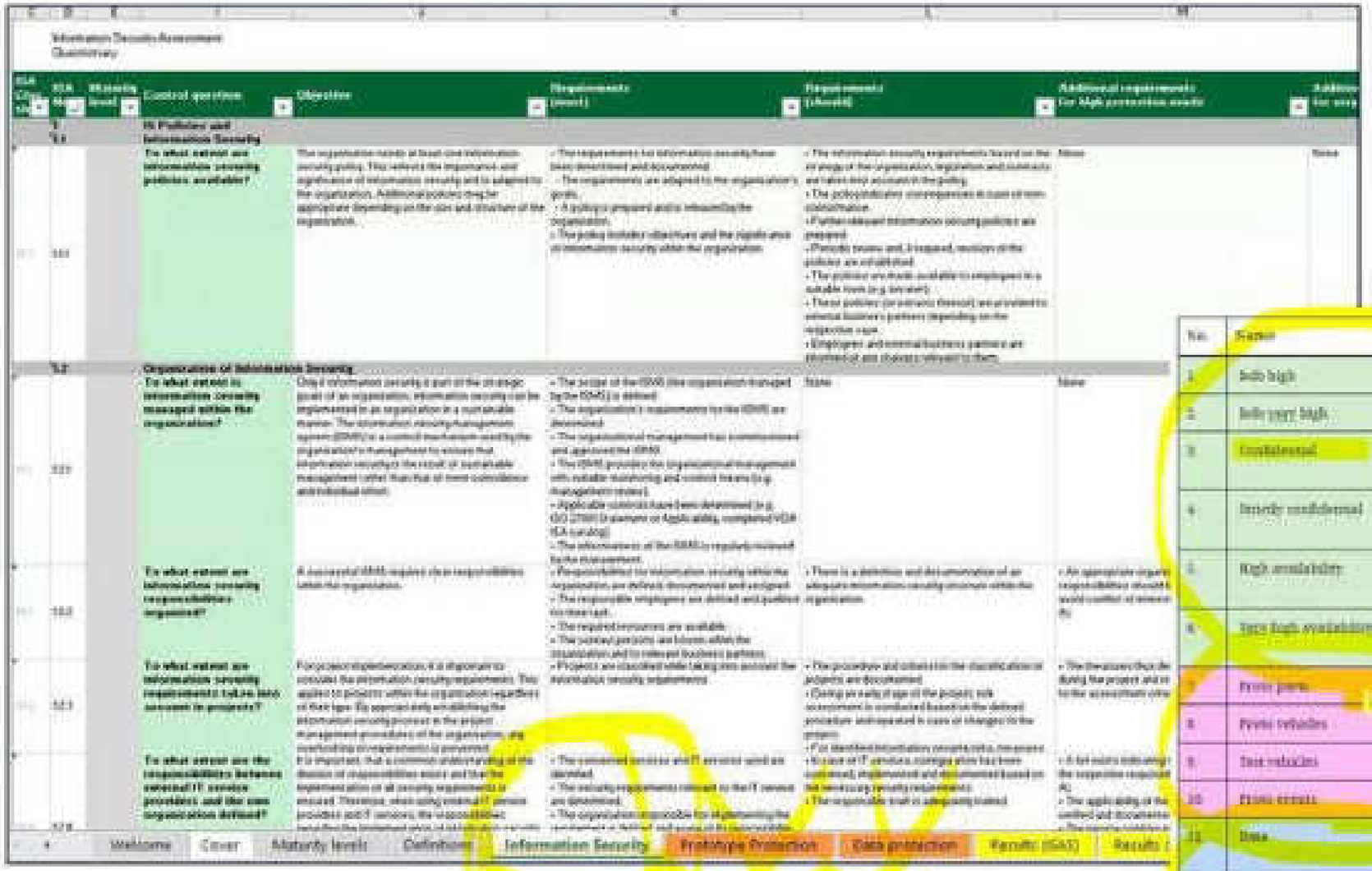
Assessment objectives



No.	Name	Description
1	Info high	Handling of information with high protection needs
2	Info very high	Handling of information with very high protection needs
3	Confidential	Handling of information with high protection needs in the context of confidentiality (access to confidential information)
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5	High availability	Handling of information with high protection needs in the context of availability (high availability of information)
6	Very high availability	Handling of information with very high protection needs in the context of availability (very high availability of information)
7	Proto parts	Protection of Prototype Parts and Components
8	Proto Vehicles	Protection of Prototype Vehicles
9	Test vehicles	Handling of Test Vehicles
10	Proto events	Protection of Prototypes during Events and Film or Photo Shoots
11	Data	Data protection according to Article 28 ("Processor") of the European General Data Protection Regulation (GDPR)
12	Special Data	Data protection according to Article 28 ("Processor") of the European General Data Protection Regulation (GDPR) with special categories of personal data as specified in Article 9 of the GDPR

AL: Assessment Levels

Assessments in assessment level 1 are mainly for internal purposes in the true sense of a **self-assessment**.

For an assessment in assessment level 2, the audit provider does a plausibility check on customer' self-assessment. The audit provider does the interview generally **on-line**.

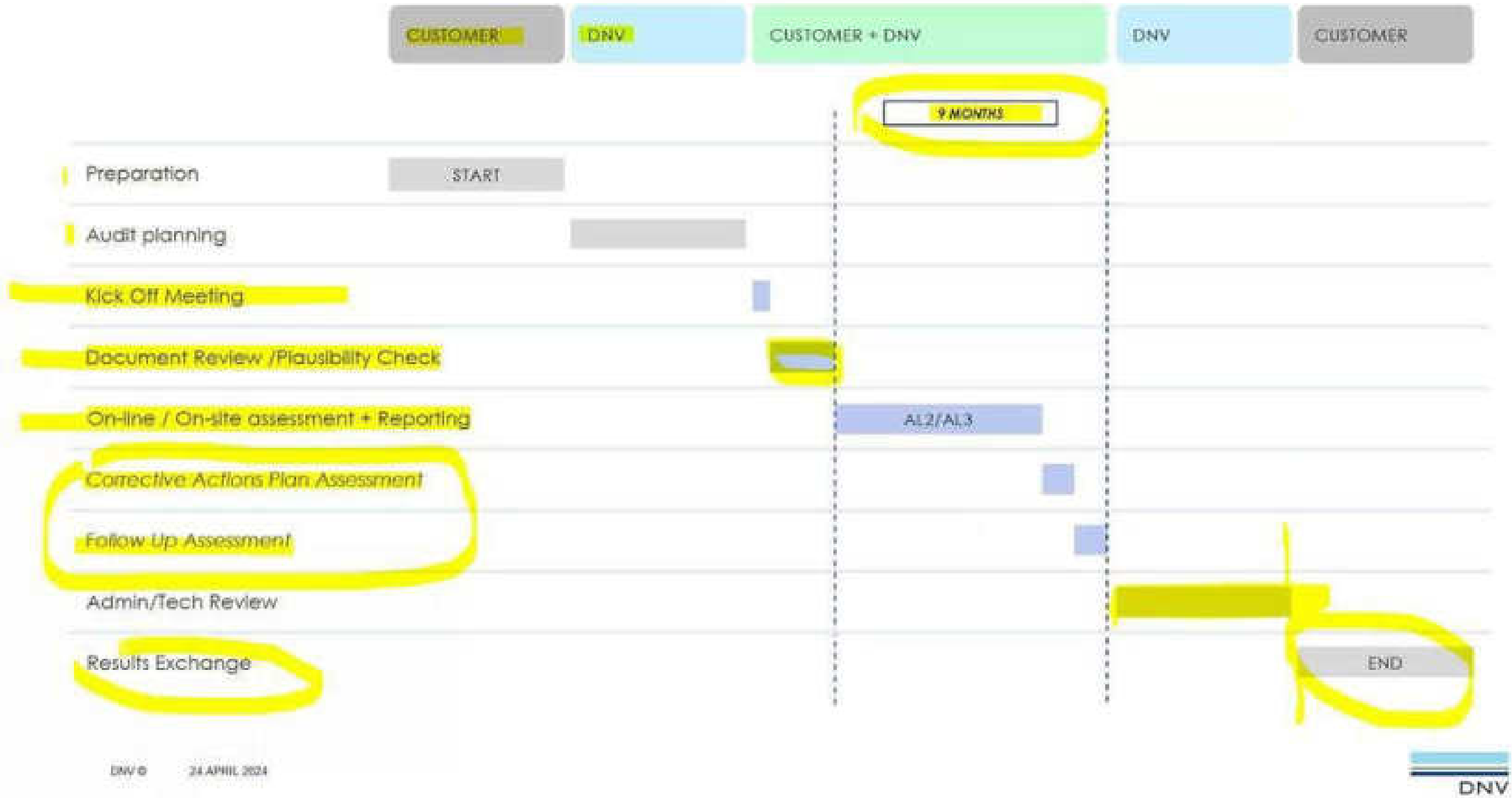
For an assessment in assessment level 3, the audit provider does a comprehensive verification of your company's compliance with the applicable requirements. **Onsite** audit & interviews.

Assessment Levels

	Assessment-Level 1 (AL 1)	Assessment-Level 2 (AL 2)	Assessment-Level 3 (AL 3)
Self-assessment	✓	✓	✓
Evidences	✗	Plausibility check	Deep dive
Interviews	✗	Remote	On site
On-site audit	✗	*if desired by auditee*	✓

TISAX® audit

standardized process


CUSTOMER
DNV
CUSTOMER + DNV
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CUSTOMER
9 MONTHS
Preparation
START
Audit planning
Kick Off Meeting
Document Review /Plausibility Check
On-line / On-site assessment + Reporting
AL2/AL3
Corrective Actions Plan Assessment
Follow Up Assessment
Admin/Tech Review
Results Exchange
END

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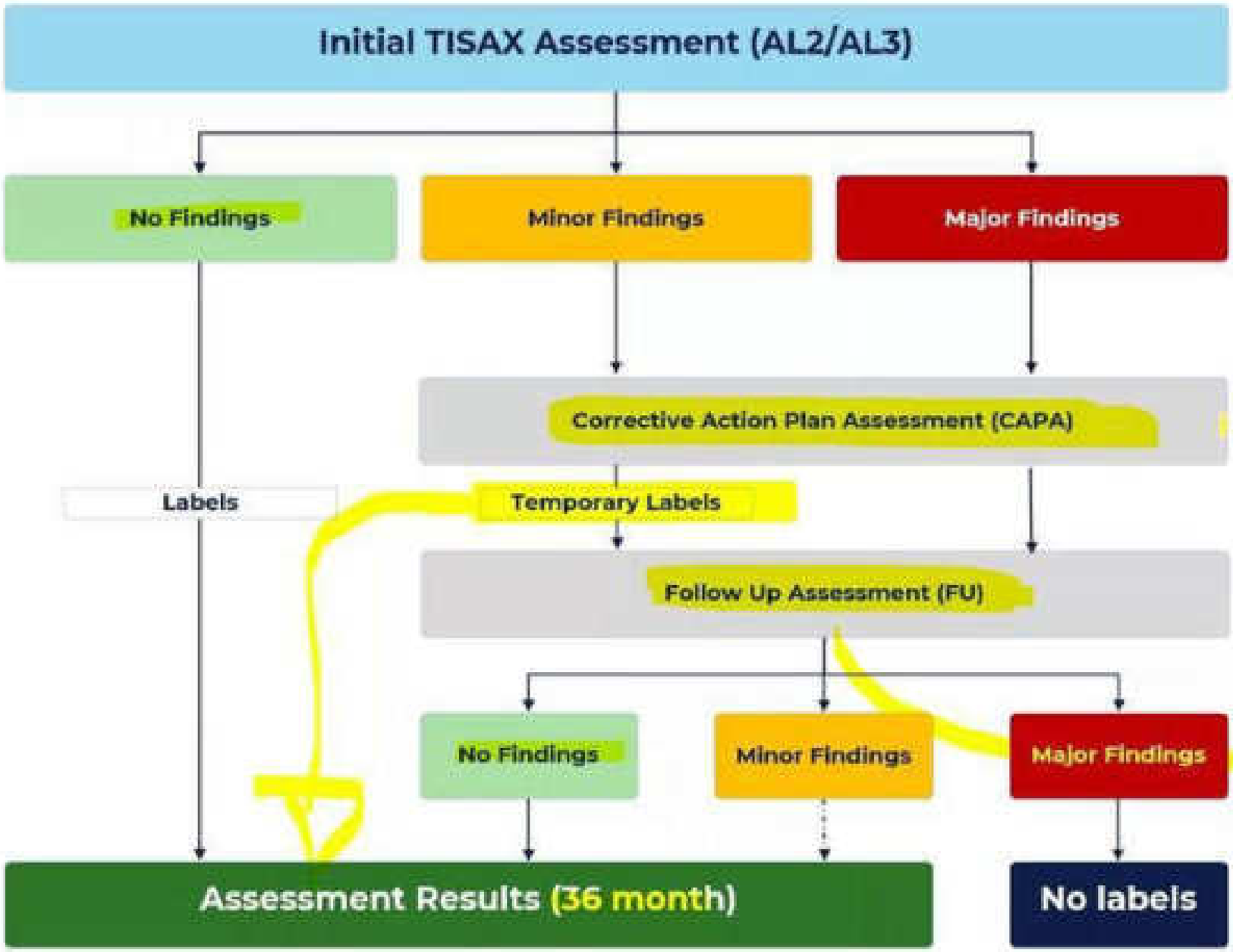
DNV Audit Overview

Kick Off Meeting	Document Review	Audit	Reporting
Online meeting	**Offline** Docs	**Online/Onsite** interviews	**Offline**
Following ENX rules (must be)	Evidences	Review all ISMS docs & guidelines	2 reports (preliminary/final)
No preparation by customer	Company website	Investigation	
		Onsite inspections (AL3)	


Initial TISAX Assessment (AL2/AL3)
No Findings
Minor Findings
Major Findings
Corrective Action Plan Assessment (CAPA)
Labels
Temporary Labels
Follow Up Assessment (FU)
No Findings
Minor Findings
Major Findings
Assessment Results (36 month)
No labels

VDA questionnaire

what to fill in? what to check?

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TISAX®: web official + VDA ISA

Further recommendations: Handling the VDA catalogue

Fill in your relevant information according to the screenshot.

Maturity level:

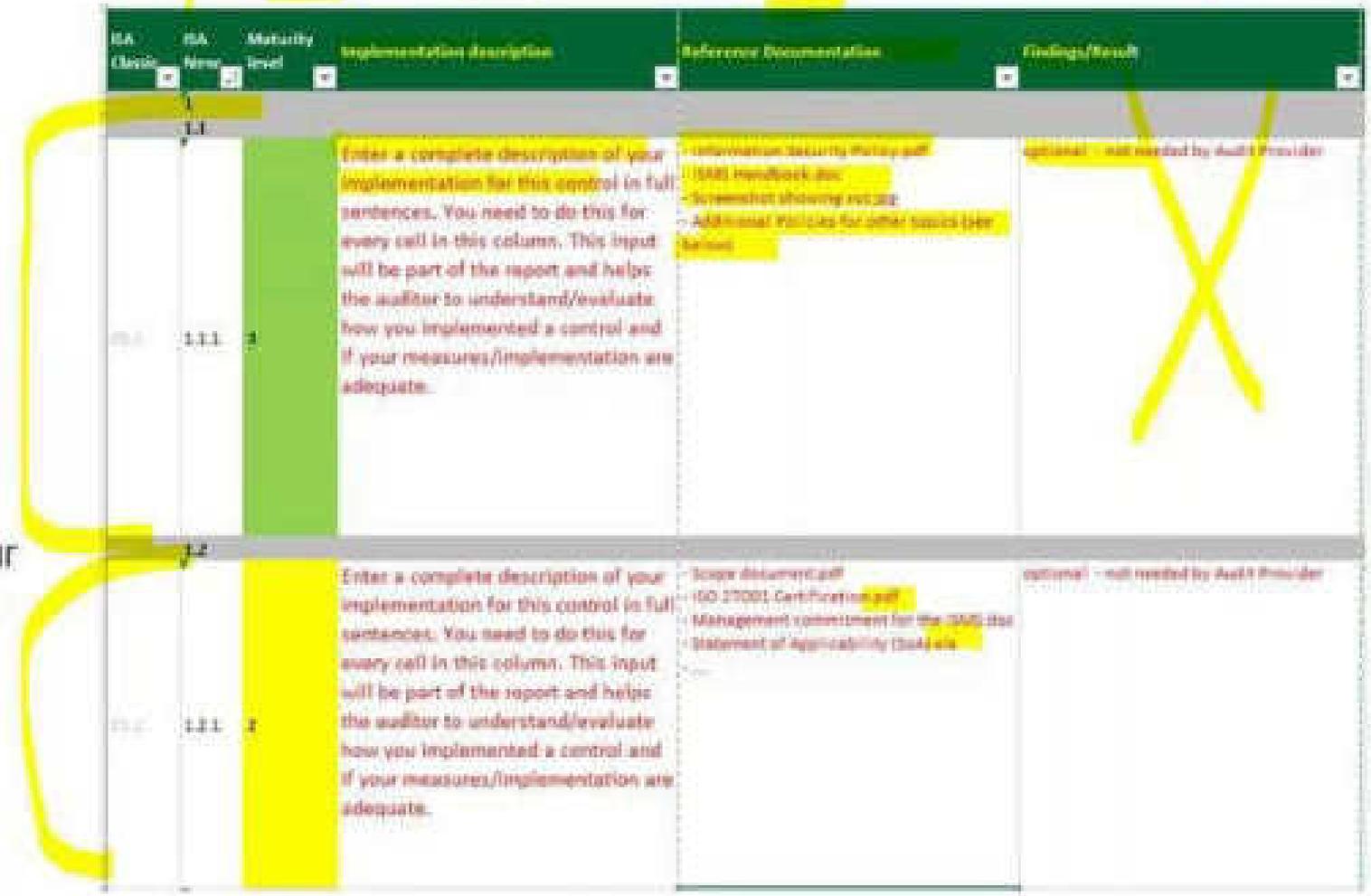
Enter your maturity level here (the target is always "3").

Implementation description:

It is essential to have a full description of your implementation. Enter your description in full sentences.

Reference Documentation:

As part of the corresponding control, please enter the full file names of your evidences.



Further recommendations: Handling the VDA catalogue

As part of the audit, you must be able to prove that you have implemented a measure / solution for each individual requirement.

- "Must" requirements must be implemented.
- "Should" requirements must also be implemented (although you can explain why a particular requirement does not apply to you).
- "High" and "very high" requirements must be implemented (depending on your exam level)

Requirements (must)	Requirements (should)	Additional requirements for high protection needs	Additional requirements for very high protection needs
+ The requirements for information security have been determined and documented. - The requirements are adapted to the goals of the organization. - A policy has been created and approved by the organization's management. + The policy includes objectives and the significance of information security within the organization.	+ The information security requirements based on the strategy of the organization, regulative and contractual obligations are reflected in the policy. + Responsibilities for the implementation are defined. + The policy indicates consequences in case of non-conformance. + Further relevant information security policies are prepared. + Periodic review and, if required, revision of the policies are established. + The policies are made available to employees in a suitable form (e.g. intranet). + These policies (or extracts thereof) are provided to external business partners depending on the respective case. + Employees and external business partners are informed of any changes relevant to them.	None	None
+ The scope of the ISMS (the organization managed by the ISMS) is defined. + The organization's requirements for the ISMS are determined. + The organizational management has commissioned and approved the ISMS. + The ISMS provides the organizational management with suitable monitoring and control means (e.g. management	None	None	None

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requirement.

- "Must" requirements must be implemented.
- "Should" requirements must also be implemented (although you can explain why a particular requirement does not apply to you).
- "High" and "very high" requirements must be implemented (depending on your exam level)

- The requirements are adapted to the goals of the organization. - A policy has been created and approved by the organization's management. + The policy includes objectives and the significance of information security within the organization.	obligations are reflected in the policy. + Responsibilities for the implementation are defined. + The policy indicates consequences in case of non-conformance. + Further relevant information security policies are prepared. + Periodic review and, if required, revision of the policies are established. + The policies are made available to employees in a suitable form (e.g. intranet). + These policies (or extracts thereof) are provided to external business partners depending on the respective case. + Employees and external business partners are informed of any changes relevant to them.		
Additional requirements for high protection needs			
+ The scope of the ISMS (the organization managed by the ISMS) is defined. + The organization's requirements for the ISMS are determined. + The organizational management has commissioned and approved the ISMS. + The ISMS provides the organizational management with suitable monitoring and control means (e.g. management	None	None	None

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"C" apply for confidentiality labels

The new confidentiality labels follow the same logic as the availability labels and cover a subset of the requirements of the old "Info" labels.

Additional requirements for high protection needs
+ Relevant different potential crisis scenarios are identified. The following aspects are considered: (A) - Crisis situations with unavailability of key personnel (e.g. Health crisis,

“C” apply for confidentiality labels

The new confidentiality labels follow the same logic as the availability labels and cover a subset of the requirements of the old “Info” labels.

As the “Info” and availability labels, the confidentiality labels do refer to the “Information Security” tab of ISA and include all baseline requirements (“must” and “should”).

Since the tag does not contain a C these requirements are not applicable for confidentiality. This means, if you only select “Confidential” TISAX Assessment Objective, the auditor will not document any non-conformities regarding those requirements.

Additional requirements for high protection needs

+ Relevant different potential crisis scenarios are identified. The following aspect: are considered: (A)

- Crisis situations with unavailability of key personnel (e.g. Health crisis, Kidnapping / accidents affecting organization leadership):
- Crisis situations with unavailable of key physical resources (e.g. fire or natural disasters at specific sites)
- Crisis situations with outage of key infrastruct
communication channels, complete outage of IT

Tagged only for availability

Additional requirements for high protection needs

+ The access rights are approved by the responsible internal Information Officer.

(C, I, A)

Tagged for availability, integrity and confidentiality

Further recommendations: Handling the VDA catalogue

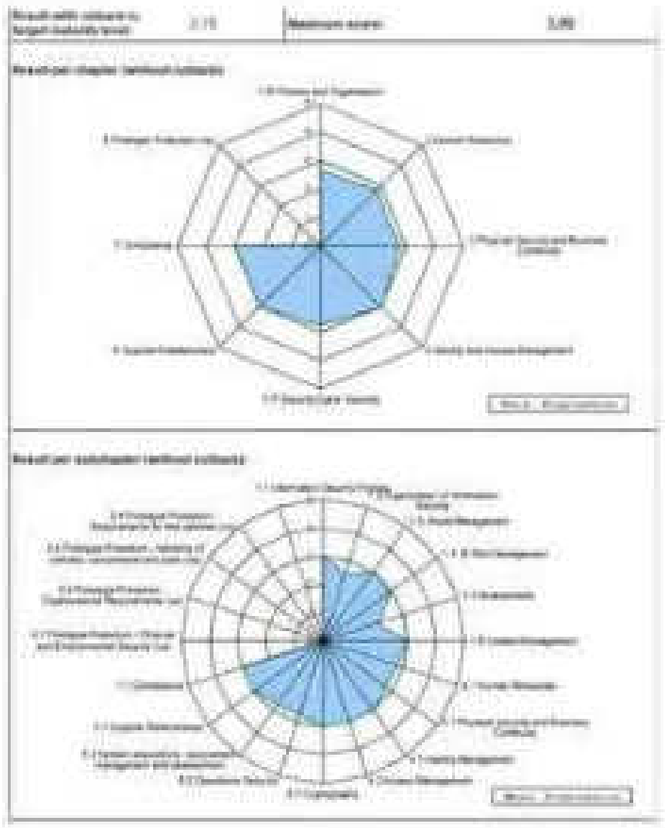
Information Security Assessment Results

VDA | Verband der Automobilindustrie

Result with callback to target maturity level:	2,70	Maximum score:	3,00

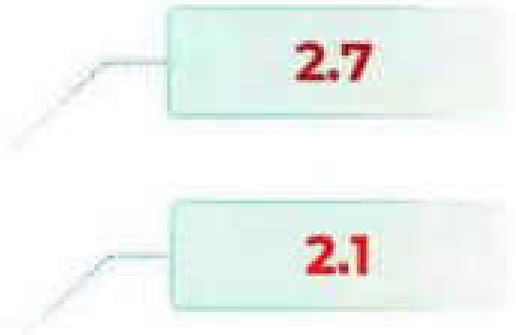
Details:

No.	Subject	Target maturity	Result
1.2.1	To what extent are information security policies available?	3	3
1.2.2	To what extent is information security managed within the organization?	3	3
1.2.3	To what extent are information security responsibilities organized?	3	3
1.2.4	To what extent are information security requirements taken into account in projects?	3	3
1.2.5	To what extent are responsibilities between external IT service providers and the own organization defined?	3	3
2.1.1	To what extent are information assets identified and recorded?	3	3
2.1.2	To what extent are information assets classified and managed in terms of their protection needs?	3	3
2.1.3	To what extent is it ensured that only evaluated and approved external IT services are used for processing the organization's information assets?	3	3
2.4.1	To what extent are information security risks managed?	3	3
1.3.1	To what extent is compliance with information security ensured in procedures and processes?	3	3
1.3.2	To what extent is the ISMS reviewed by an independent entity?	3	3
1.6.1	To what extent are information security events processed?	3	3
2.2.1	To what extent is the suitability of employees for sensitive roles/fields ensured?	3	3
1.1.1	To what extent is all staff contractually bound to comply with information security policies?	3	3
2.1.3	To what extent is staff made aware of and trained with respect to the risks arising from the handling of information?	3	3
2.2.4	To what extent is leave being regulated?	3	3
2.2.1	To what extent are security zones managed to protect information assets?	3	3
2.2.2	To what extent is information security ensured in exceptional situations?	3	3
2.2.3	To what extent is the handling of supporting assets managed?	3	3
2.2.4	To what extent is the handling of mobile IT devices and mobile data storage devices managed?	3	3
4.3.1	To what extent is the use of identification means managed?	3	3
[illegible]	[illegible]	[illegible]	[illegible]



"Results" tab:

Here you can get your test result based on your own data entry.



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TISAX®

3-year period

VDA ISA check list

Exchange of results

Based on ISO27001

Industry focus

Assessment Objectives

Supply Chain Security

Assessment Levels (AL)

Digital labels

Locations

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3-year period
VDA ISA check list
Exchange of results
Based on ISO27001
Industry focus
TISAX®
Assessment Objectives
Supply Chain Security
Assessment Levels (AL)
Digital labels
Locations

Q&A

Assessment objectives

	No.	Name	Description	
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	2.	Info very high	Handling of information with very high protection needs	AL3
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	4.	Strictly confidential	Handling of information with very high protection needs in the context of confidentiality (access to strictly confidential information)	AL3
	5.	High availability	Handling of information with high protection needs in the context of availability (high availability of information)	AL2
	6.	Very high availability	Handling of information with very high protection needs in the context of availability (very high availability of information)	AL3
PROTO	7.	Proto parts	Protection of Prototype Parts and Components	AL3
	8.	Proto vehicles	Protection of Prototype Vehicles	AL3
	9.	Test vehicles	Handling of Test Vehicles	AL3
	10.	Proto events	Protection of Prototypes during Events and Film or Photo Shoots	AL3
DATA	11.	Data	Data protection according to Article 28 ("Processor") of the European General Data Protection Regulation (GDPR)	AL2
	12.	Special data	Data protection according to Article 28 ("Processor") of the European General Data Protection Regulation (GDPR) with special categories of personal data as specified in Article 9 of the GDPR	AL3

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New upcoming schemes

Vehicle CyberSecurity Audit (VCSA)

The VCSA serves as the basis for
- a self assessment to determine the state of vehicle cybersecurity within the organization (e.g. company)
- audits performed by internal departments (e.g. Internal Audit, Quality Management, Information Security, Cybersecurity)

The VCS Audit consists of several Spreadsheets, whose content and function are explained in the Spreadsheet tab "Definitions". The requirements catalogue can be found under the tab "Vehicle CyberSecurity"
The document user is recommended to start with the spreadsheet tab "Vehicle CyberSecurity" in order to obtain an overview of the current status of development of Vehicle Cybersecurity.

Best wishes from ENX Project Group VCS!
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