



ONE DOES NOT SIMPLY

Digital

PUT A PRODUCT ON THE EU MARKET

First steps towards CRA conformity.

# The Fastest

An **Aspect** introduction to **CRA**  
cybersecurity risk  
management

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**From Dec 11. 2027**

**Every manufacturer of products with digital elements, including software only products, placed on the EU market needs to declare conformity with the EU Cyber Resilience Act.**

# 81

Occurrences of the term 'cybersecurity risk' in the EU CRA



## CRA Article 13 (2)

“Manufacturers **shall** undertake an **assessment** of the **cybersecurity risks** associated with a product with digital elements and take the outcome of that assessment into account during the **planning, design, development, production, delivery** and **maintenance phases** of the product with digital elements with a view to minimising cybersecurity risks, preventing incidents and minimising their impact, including in relation to the **health** and **safety** of users”

## CRA Article 13 (3)

“That cybersecurity risk assessment **shall** comprise at least an analysis of cybersecurity risks based on the **intended purpose** and **reasonably foreseeable use**, as well as the **conditions of use**, of the product with digital elements, such as the **operational environment** or the **assets to be protected**, taking into account the **length of time the product is expected to be in use**.”

## CRA Annex I Essen Cybersecurity Requirements:

On the basis of the cybersecurity risk assessment referred to in Article 13(2) and where applicable, products with digital elements shall:

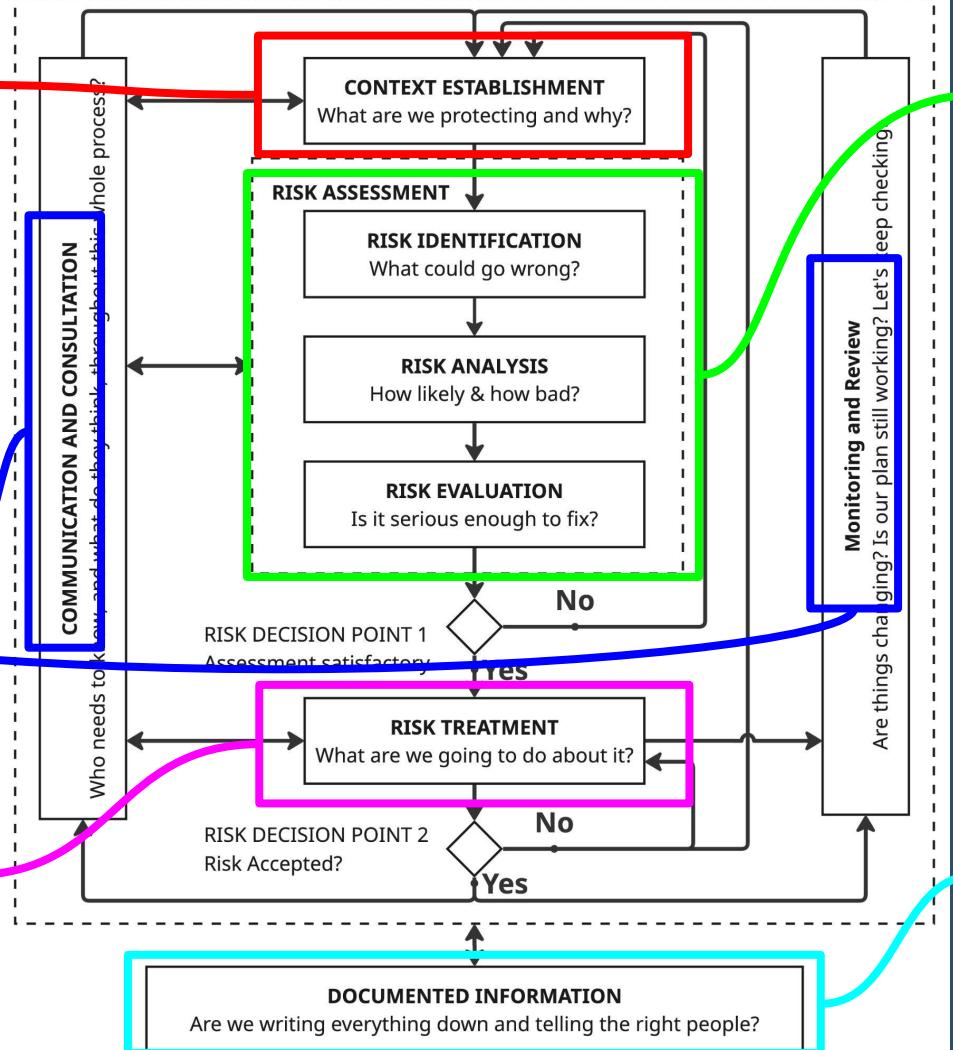
- (a) be made available on the market without known exploitable vulnerabilities;
- (b) be made available on the market with a secure by default configuration, unless otherwise agreed between manufacturer and business user in relation to a tailor-made product with digital elements, including the possibility to reset the product to its original state;
- (c) ensure that vulnerabilities can be addressed through security updates, including, where applicable, through automatic security updates that are installed within an appropriate timeframe enabled as a default setting, with a clear and easy-to-use opt-out mechanism, through the notification of available updates to users, and the option to temporarily postpone them;
- (d) ensure protection from unauthorised access by appropriate control mechanisms, including but not limited to authentication, identity or access management systems, and report on possible unauthorised access;
- (e) protect the confidentiality of stored, transmitted or otherwise processed data, personal or other, such as by encrypting relevant data at rest or in transit by state of the art mechanisms, and by using other technical means;
- (f) protect the integrity of stored, transmitted or otherwise processed data, personal or other, commands, programs and configuration against any manipulation or modification not authorised by the user, and report on corruptions;
- (g) process only data, personal or other, that are adequate, relevant and limited to what is necessary in relation to the intended purpose of the product with digital elements (data minimisation);
- (h) protect the availability of essential and basic functions, also after an incident, including through resilience and mitigation measures against denial-of-service attacks;
- (i) minimise the negative impact by the products themselves or connected devices on the availability of services provided by other devices or networks;
- (j) be designed, developed and produced to limit attack surfaces, including external interfaces;
- (k) be designed, developed and produced to reduce the impact of an incident using appropriate exploitation mitigation mechanisms and techniques;
- (l) provide security related information by recording and monitoring relevant internal activity, including the access to or modification of data, services or functions, with an opt-out mechanism for the user;
- (m) provide the possibility for users to securely and easily remove on a permanent basis all data and settings and, where such data can be transferred to other products or systems, ensure that this is done in a secure manner.

# Technical Documentation

3. an assessment of the cybersecurity risks against which the product with digital elements is designed, developed, produced, delivered and maintained pursuant to Article 13, including how the essential cybersecurity requirements set out in Part I of Annex I are applicable;



# ISO 27005 Information Security Risk Management



# Requirements

## Product Context

## Criteria + Method

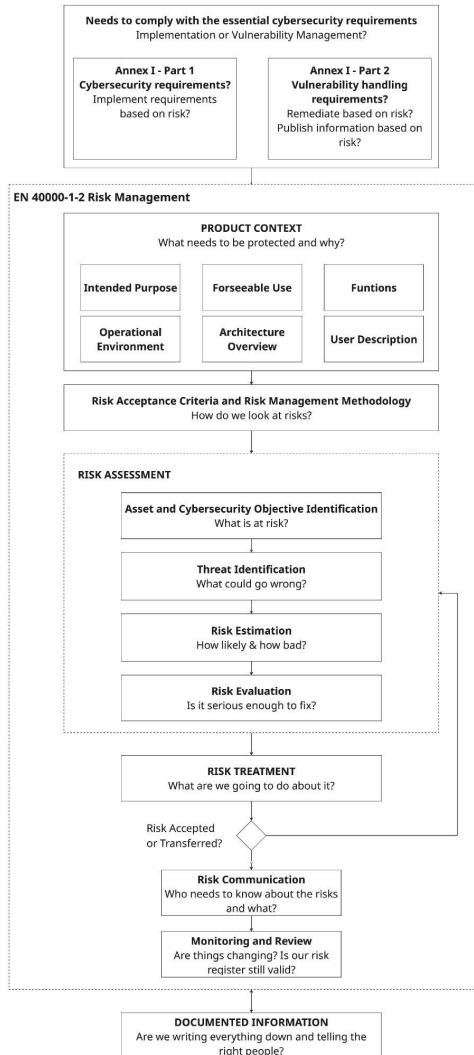
## Risk Assessment

## Risk Treatment

## Communication

## Review + Monitor

## Documentation



EN40000-1-2 draft





# Bicycles to the Rescue!

# Product context



# Function



# Integration





# User Profile



# Foreseeable Use



# Architecture

# Operational Environment



Photo by [Elisaveta Bunduchie](#) on [Unsplash](#)

# Remote Data Processing System?



Photo by [Geo Chierchia](#) on [Unsplash](#)

Risk acceptance  
criteria +  
risk management  
methodology



# Risk Management Methodology





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# Assets and their Security Objectives

# CIAPS

**Confidentiality:** Data is only accessible to authorized persons/systems

**Integrity:** Data and functions are protected against unauthorized changes

**Availability:** Critical functions are reachable and resilient during attacks

**Privacy:** Personal identifiable information (PII) is minimized and protected

**Safety:** The product does not cause physical harm or environmental damage

# Acceptance Criteria



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# Risk Assessment



# Read, and use: OWASP Risk Rating Methodology

1. **Risk = Likelihood \* Impact**
  - a. Likelihood = max(all likelihood factors)
  - b. Impact = max(all impact factors)
2. You always needs to assess the **Inherent risk**
  - a. The risk without any security measure
    - i. No secure coding, no SAST/DAST, ...
3. Then you treat the risks (Avoid, Mitigate, Accept, Transfer)
  - a. Implement Secure Coding, SAST, ...
4. Then you assess the **residual risks**

“...including in relation to the **health** and **safety** of users...”





Photo by [Greg Boll on Unsplash](#)

# Inherent Risk



# Impact Analysis



# Likelihood Analysis

# Threat Actor



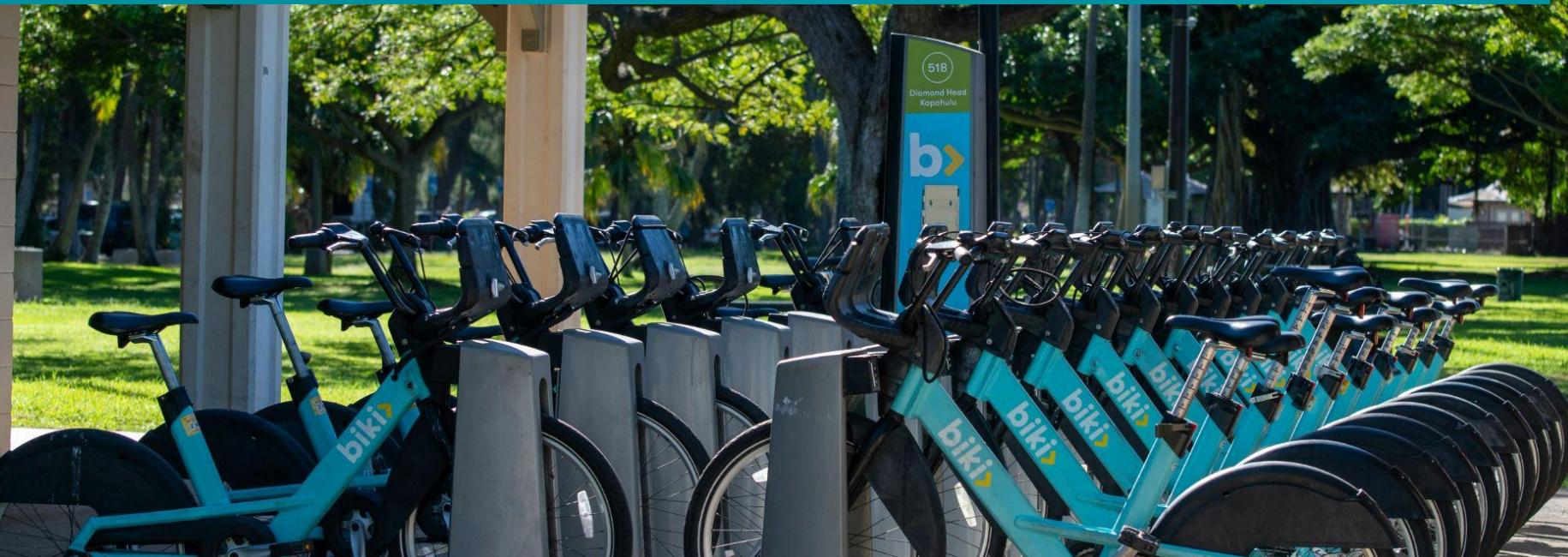
Photo by [Erik McLean](#) on [Unsplash](#)



# Threat Events

Photo by [Brad Rucker](#) on [Unsplash](#)

# Scale + Accessibility



# Risk treatment



# Reduce Likelihood



# Reduce Impact



Threat / Event	Inherent Risk (LxI)	Annex I Requirement	Applicable? Necessary?
<b>External Attacker:</b> Remote API exploit (Mass Scale)	<b>6x9 = 54 (Critical)</b>	<ul style="list-style-type: none"> <li>(d) ensure protection from unauthorised access by appropriate control mechanisms, including but not limited to authentication, identity or access management systems, and report on possible unauthorised access</li> <li>(e) protect the confidentiality of stored, transmitted or otherwise processed data, personal or other, such as by encrypting relevant data at rest or in transit by state of the art mechanisms, and by using other technical means</li> <li>(j) be designed, developed and produced to limit attack surfaces, including external interfaces</li> <li>(l) provide security related information by recording and monitoring relevant internal activity, including the access to or modification of data, services or functions, with an opt-out mechanism for the user</li> </ul>	<b>Yes</b> <b>Yes</b>
<b>Power Failure:</b> Loss of unlock functionality	<b>2x9= 18 (Medium)</b>	<ul style="list-style-type: none"> <li>(h) protect the availability of essential and basic functions, also after an incident, including through resilience and mitigation measures against denial-of-service attacks</li> </ul>	<b>Yes</b> <b>Yes</b>
<b>Malicious Insider:</b> Local system settings change via local maintenance port	<b>3x5 = 15 (Low)</b>	<ul style="list-style-type: none"> <li>(f) protect the integrity of stored, transmitted or otherwise processed data, personal or other, commands, programs and configuration against any manipulation or modification not authorised by the user, and report on corruptions</li> <li>(j) be designed, developed and produced to limit attack surfaces, including external interfaces</li> </ul>	<b>Yes</b> <b>No</b>

# Treatment follows priority

Implement  
CRA Annex I Requirements

1. **Avoid:** Don't implement it this way. (eg. Hardware vs Software control loops)
2. **Mitigate:** Implement measures to reduce likelihood and/or impact
3. **Accept:** Inherent risk of the product that cannot be mitigated
4. **Transfer:** Transfers the risk to the user.
  - a. **Officially via the User Instructions**

**Annex ANNEX II INFORMATION AND INSTRUCTIONS TO THE USER** "any known or foreseeable circumstance, related to the use of the product with digital elements in accordance with its intended purpose or under conditions of reasonably foreseeable misuse, which may lead to significant cybersecurity risks"



# Residual Risk



Photo by [Andrei Castanha](#) on [Unsplash](#)

# Communication + User Instructions



Photo by [Robert Ruggiero](#) on [Unsplash](#)

# Risk Monitoring + Collect Data



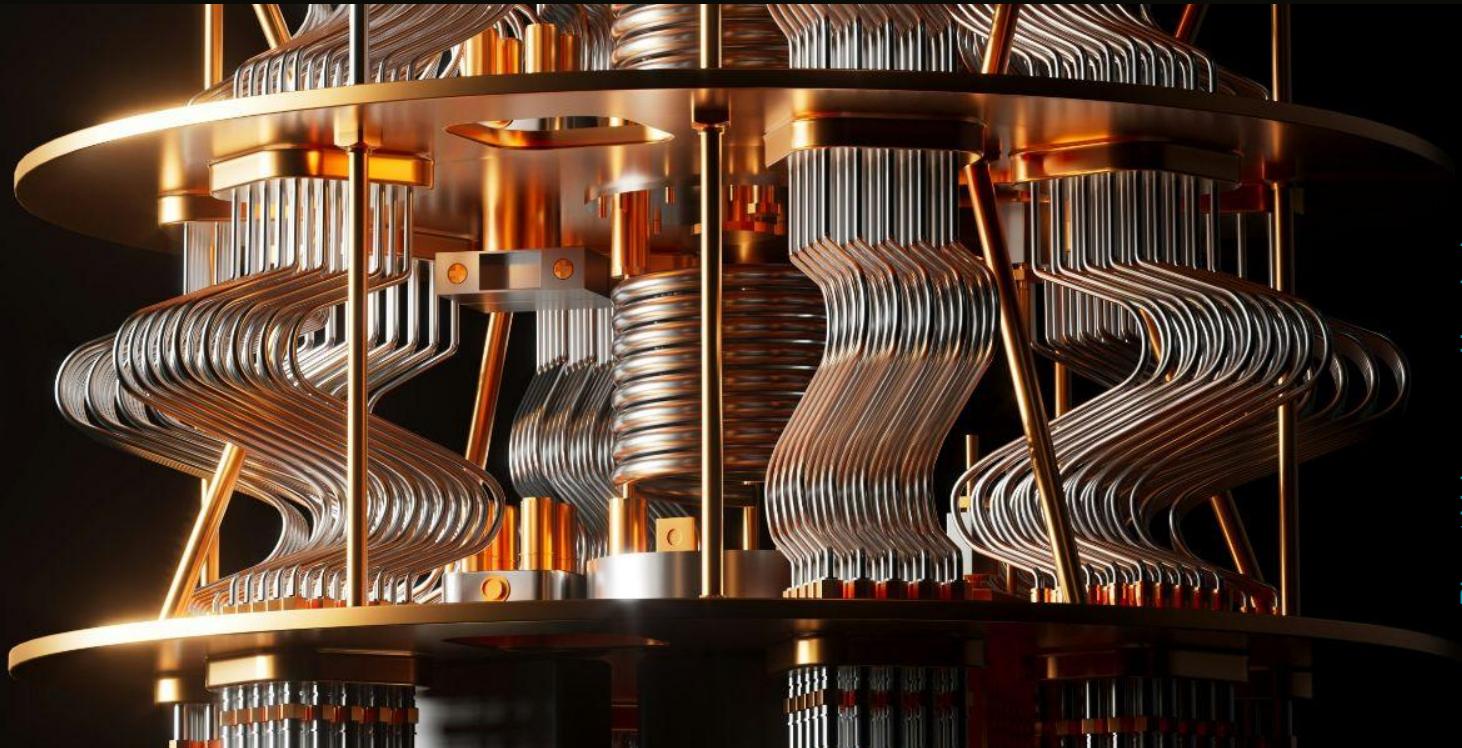


# Risk Review



# Support Period

# Future Risks



# Did I mention Documentation?



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# Practical Cybersecurity Risk Assessment / Management



# CRA Requirements



### Example - Annex I Part 1 (j)

“be designed, developed and produced to limit attack surfaces, including external interfaces”

**Does now every product need to protect against any physical local attacks?**



- 1. Read Essential Cybersecurity Requirements: CRA Annex I - Part 1 - 2(a-m) and Part 2 1+4**
- 2. Do you need to implement the requirement?**
  - a. What risks have you identified?
  - b. How do you treat those risks?
  - c. Do risks obligate an implementation?



# Product context



# Define your product as detailed and narrow as possible

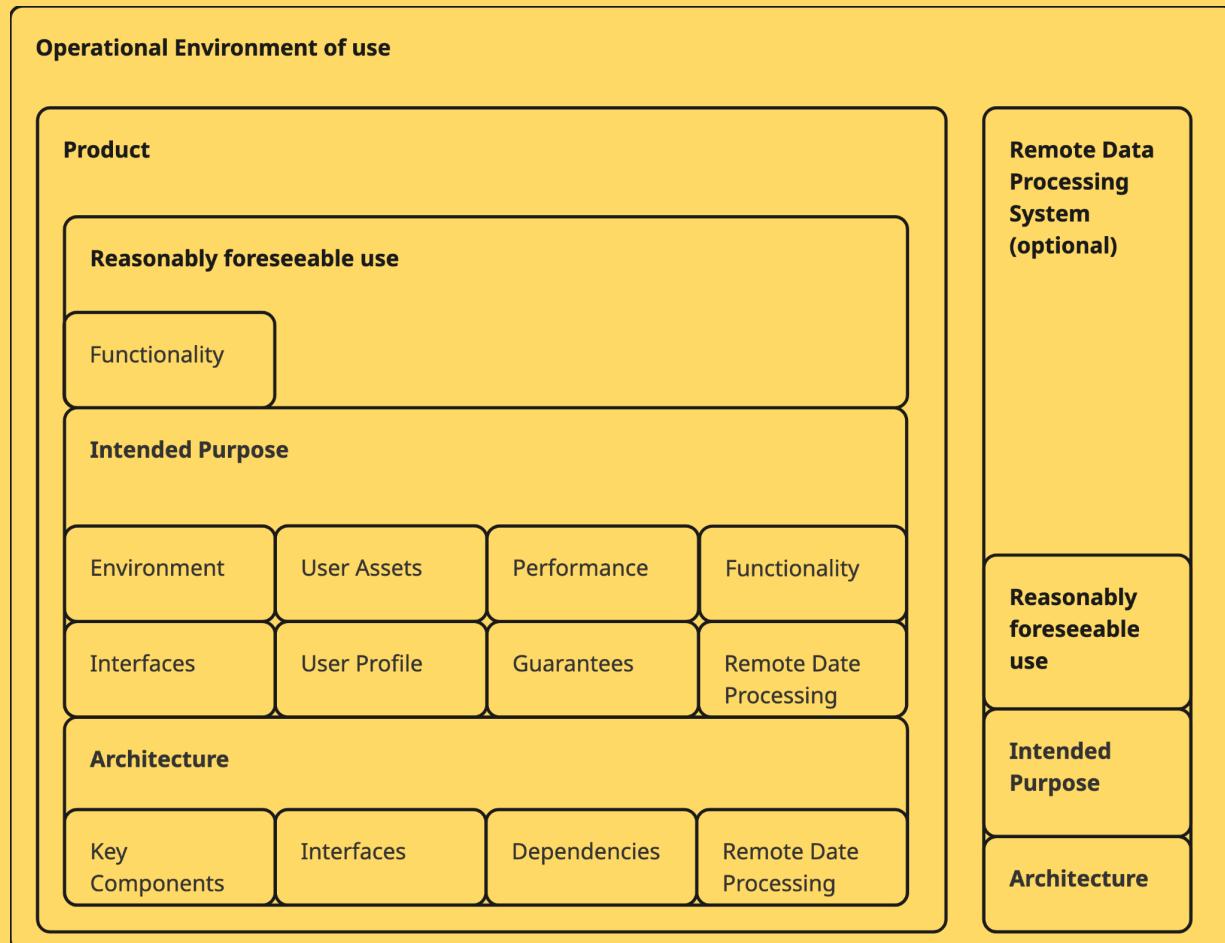
## Product Context

- Intended purpose and reasonably foreseeable use
- Product's functions
- Operational environment of use
- Product's architecture overview
- Product's user descriptions
- Needs a remote data processing system (RDPS)
  - Operational Environment of RDPS



# Product Context

## Create a block diagram for better understanding



# Document your products context

- 1. Create a list or table for your product and its remote data processing system with**
  - a. all user profiles
  - b. functions
  - c. stored data
  - d. interfaces
  - e. dependencies and other assets
  - f. Operational environment
- 2. You'll need this for the risk identification**



# Risk acceptance criteria + risk management methodology



# CIAPS

**Confidentiality:** Data is only accessible to authorized persons/systems

**Integrity:** Data and functions are protected against unauthorized changes

**Availability:** Critical functions are reachable and resilient during attacks

**Privacy:** Personal identifiable information (PII) is minimized and protected

**Safety:** The product does not cause physical harm or environmental damage



## Define how you manage risks

### 1. Define your risk management methodology

Like coding and review guidelines:

- a. How to identify risks
- b. How to estimate risk
  - i. Likelihood and Impact
- c. How to evaluate treatment
- d. How to treat risks

### 2. Define what risks can be accepted



## How do you identify Risks

- Execute Threat modelling practices
  - Four Question Framework
    - [Shostack Threat Modeling](#)
  - STRIDE
    - [OWASP Threat Modeling Process](#)
  - [OWASP Threat Modeling Project](#)

## Criteria + Method



# How you estimate **likelihood** - The "Attacker" Profile

## Criteria + Method

Factor	Description & CRA Alignment	Scoring Criteria (1, 5, 9, 15)
<b>Skill Level</b>	Technical capability of the group	<b>1:</b> No skills <b>5:</b> Advanced user <b>9:</b> Security penetration skills
<b>Motive</b>	Incentive to find/exploit this specific target	<b>1:</b> Low   no reward <b>4:</b> Possible reward <b>9:</b> High reward
<b>Opportunity</b>	Resources required to find the exploit	<b>0:</b> Full   expensive access <b>4:</b> Special access <b>9:</b> No access required
<b>Size</b>	The population of the threat group	<b>2:</b> Developers <b>5:</b> Partners <b>9:</b> Anonymous Internet users
<b>User Profile</b>	<b>CRA EXTENSION:</b> Capability of the victim to mitigate	<b>1:</b> Professional   Supervised   Trained <b>5:</b> Adult Consumer <b>9:</b> Vulnerable   Child



# How you estimate **likelihood** - The "Product" Profile

## Criteria + Method

Factor	Description & CRA Alignment	Scoring Criteria (1, 3,4, 5, 6, 7, 9)
<b>Ease of Discovery</b>	Addresses Discoverability	<b>1:</b> Impossible <b>3:</b> Difficult <b>7:</b> Easy <b>9:</b> Automated tools.
<b>Ease of Exploit</b>	Addresses Attack Scalability	<b>1:</b> Theoretical <b>3:</b> Difficult <b>5:</b> Easy <b>9:</b> Automated tools
<b>Awareness</b>	Known status of the vulnerability	<b>1:</b> Unknown <b>4:</b> Hidden <b>6:</b> Obvious <b>9:</b> Public knowledge
<b>Intrusion Detection</b>	Speed of materialization/detection	<b>1:</b> Active detection <b>3:</b> Logged/Reviewed <b>9:</b> Not logged



# How you estimate **impact** - Technical "Blast Radius"

## Criteria + Method

Factor	Description & CRA Alignment	Scoring Criteria (1, 5, 9)
<b>Confidentiality</b>	How much data is disclosed?	<b>1:</b> Minimal non-sensitive <b>5:</b> Extensive sensitive <b>9:</b> Total data disclosure.
<b>Integrity</b>	How much data or firmware is corrupted?	<b>1:</b> Minimal non-sensitive <b>5:</b> Extensive sensitive <b>9:</b> Total data corruption
<b>Availability</b>	How much service/function is lost?	<b>1:</b> Secondary services <b>5:</b> Primary services <b>9:</b> Total loss of service
<b>Accountability</b>	Are the attacker's actions traceable?	<b>1:</b> Fully traceable <b>5:</b> Possibly traceable <b>9:</b> Completely anonymous
<b>CRA / Scalability</b>	<b>CRA EXTENSION:</b> Multi-product disruption via RDPS.	<b>1:</b> Single isolated instance <b>5:</b> Localized subset <b>9:</b> Simultaneous mass-exploitation



# How you estimate **impact** - Your Liability Profile

## Criteria + Method

Factor	Description & CRA Alignment	Scoring Criteria (1, 3, 4, 5, 7, 9, 15)
<b>Financial Damage</b>	Economic loss resulting from an exploit	<b>1:</b> < cost to fix <b>3:</b> Minor profit effect <b>7:</b> Significant profit effect <b>9:</b> Bankruptcy
<b>Reputation Damage</b>	Harm to the brand and market trust	<b>1:</b> Minimal <b>4:</b> Loss of major accounts <b>5:</b> Loss of goodwill <b>9:</b> Brand damage
<b>Non-Compliance</b>	Exposure introduced by regulatory violations	<b>2:</b> Minor violation <b>5:</b> Clear violation <b>7:</b> High profile violation.
<b>Privacy Violation</b>	Volume of PII disclosed to unauthorized parties	<b>3:</b> One individual <b>5:</b> Hundreds <b>7:</b> Thousands <b>9:</b> Millions of people
<b>Safety   Health   CRITIS</b>	<b>CRA EXTENSION:</b> Physical harm, RDPS scalability or Critical Infrastructure affected	<b>1:</b> No physical effect <b>5:</b> Minor injury/subset affected <b>9:</b> Direct safety concern, Mass disruption, CRITIS



# How you calculate **risk score**

## Criteria + Method

Likelihood and Impact Levels	
0 to <3	LOW
3 to <6	MEDIUM
6 to 9	HIGH

**Risk = Likelihood \* Impact**

**Risk score can be 0 - 81**

Overall Risk Severity				
Impact	HIGH	Medium (>=18)	High (>=36)	Critical (>=54)
	MEDIUM	Low (>=9)	Medium (>=18)	High (>=36)
	LOW	Note (< 9)	Low (>=9)	Medium (>=18)
		LOW	MEDIUM	HIGH
Likelihood				



# Risk Acceptance Criteria

## Criteria + Method

Acceptance Level	OWASP Score	CRA Treatment Requirement
<b>Negligible / Note</b>	<b>0 – 9</b>	Risks are documented but typically accepted as they represent a negligible threat to the product context
<b>Low</b> <b>Acceptable with Review</b>	<b>10 – 17</b>	Residual risk is communicated to the user. Standard for non-critical consumer products.
<b>Medium   Unacceptable</b>	<b>18 – 35</b>	Requires "appropriate risk treatment" according to your provided guidelines to reduce the score before launch.
<b>High   Unacceptable</b>	<b>36 – 53</b>	Unacceptable under CRA standards; mandatory mitigation using "state of the art" controls is required.
<b>Critical   Unacceptable</b>	<b>54 – 81</b>	Represents high-profile violations or direct life-safety concerns; the product generally cannot be released in this state.



# Risk Acceptance Criteria - Special Cases

1. **Health & Safety** Impact = 9 → Unacceptable
2. **Attack Scalability** Impact = 9 → Unacceptable
3. **User Profile (Vulnerable Users/Child)** Impact = 9
  - You **cannot** treat the impact, you need to significantly lower the likelihood
4. **Critical Infrastructure** Impact = 9
  - You **cannot** treat the impact, you need to significantly lower the likelihood
5. **Awareness** Likelihood = 9 → **Public known exploitable vulnerability** → **Violates CRA requirements Annex I** ⇒ Mitigate



# Risk Assessment



# Asset and Cybersecurity Objective Identification

## Risk Assessment

1. **Input:** Product context
2. **Steps:**
  - a. **Identify all Assets:** (PII, keys, hardware components, interfaces, configuration, communication)
  - b. **Identify Cybersecurity Objectives** for each asset: **CIAPS**
3. **Result:** List of Assets with related cyber security objectives:

Asset Category	Specific Asset Example	Primary Cybersecurity Objective
<b>Data Assets</b>	Authentication Tokens / Keys	<b>Confidentiality:</b> Prevent unauthorized access to sensitive credentials.
<b>Functions</b>	Product configuration	<b>Integrity:</b> Ensure only authorized modification of system settings
<b>User Safety</b>	Home Assistant connected Smart Lock	<b>Safety:</b> Lock can be unlocked during power Failure or fire to allow escape



# Threat Identification

1. **Input:** List of Assets with related cybersecurity objectives
2. **Steps:**
  - a. **Identify Threat Agents & Events**
  - b. **Identify Attack Vectors & Failure Modes**
  - c. **Map Threats to Assets**
3. **Result:** List of identified threats and failure events.

Asset Category	Specific Asset Example	Potential Threat Example
<b>Data Assets</b>	Authentication Tokens / Keys	<b>External Attacker:</b> Remote extraction of credentials via an unauthenticated API vulnerability
<b>Functions</b>	Product configuration	<b>Malicious Insider:</b> Unauthorized modification of system settings via local maintenance port
<b>User Safety</b>	Home Assistant connected Smart Lock	<b>Power Failure:</b> Sudden loss of energy causing lock mechanism not to unlock during fire emergency

# Risk Estimation

1. **Input:** List of identified threats and failure events
2. **Steps:**
  - a. **Estimate Likelihood and Impact, take MAX()**
  - b. **Calculate Total Risk:** Likelihood (L)  $\times$  Impact (I)
3. **Result:** Prioritized Risk Register with inherent risk scores for every identified threat

Threat / Event	Likelihood (L)	Impact (I)	Inherent Risk (LxI)
<b>External Attacker:</b> Remote API exploit (Mass Scale)	6 (High)	9 (Scalability)	54 (Critical)
<b>Power Failure:</b> Loss of unlock functionality	2 (Low)	9 (Safety)	18 (Medium)
<b>Malicious Insider:</b> Local system settings change	3 (Low)	5 (Medium)	15 (Low)



# Risk Evaluation

1. **Input:** List of identified threats / failure events with inherent risk score
2. **Steps:**
  - a. Risk Acceptance Criteria
  - b. Applicability of EU CRA Annex I requirements
  - c. Document justification for accepted residual risks
3. **Result:** List of identified threats and the treatment decision

Threat / Event	Inherent Risk (LxI)	Treatment
<b>External Attacker:</b> Remote API exploit (Mass Scale)	$6 \times 9 = 54$ (Critical)	Mitigate Likelihood + Impact
<b>Power Failure:</b> Loss of unlock functionality	$2 \times 9 = 18$ (Medium)	Mitigate Likelihood
<b>Malicious Insider:</b> Local system settings change	$3 \times 5 = 15$ (Low)	Accept



## Now you know why you need a risk assessment

### Example - Annex I Part 1 (j)

“be designed, developed and produced to limit attack surfaces, including external interfaces”

## Risk Assessment

Does now every product need to protect against any physical local attacks?

What does your risk register say?



Threat / Event	Inherent Risk (LxI)	Annex I Requirement	Applicable? Necessary?
<b>External Attacker:</b> Remote API exploit (Mass Scale)	<b>6x9 = 54 (Critical)</b>	<ul style="list-style-type: none"> <li>(d) ensure protection from unauthorised access by appropriate control mechanisms, including but not limited to authentication, identity or access management systems, and report on possible unauthorised access</li> <li>(e) protect the confidentiality of stored, transmitted or otherwise processed data, personal or other, such as by encrypting relevant data at rest or in transit by state of the art mechanisms, and by using other technical means</li> <li>(j) be designed, developed and produced to limit attack surfaces, including external interfaces</li> <li>(l) provide security related information by recording and monitoring relevant internal activity, including the access to or modification of data, services or functions, with an opt-out mechanism for the user</li> </ul>	<b>Yes</b> <b>Yes</b>
<b>Power Failure:</b> Loss of unlock functionality	<b>2x9= 18 (Medium)</b>	<ul style="list-style-type: none"> <li>(h) protect the availability of essential and basic functions, also after an incident, including through resilience and mitigation measures against denial-of-service attacks</li> </ul>	<b>Yes</b> <b>Yes</b>
<b>Malicious Insider:</b> Local system settings change via local maintenance port	<b>3x5 = 15 (Low)</b>	<ul style="list-style-type: none"> <li>(f) protect the integrity of stored, transmitted or otherwise processed data, personal or other, commands, programs and configuration against any manipulation or modification not authorised by the user, and report on corruptions</li> <li>(j) be designed, developed and produced to limit attack surfaces, including external interfaces</li> </ul>	<b>Yes</b> <b>No</b>

# Risk Treatment



# Treatment follows priority

Implement  
CRA Annex I Requirements

1. **Avoid:** Don't implement it this way. (eg. Hardware vs Software control loops)
2. **Mitigate:** Implement measures to reduce likelihood and/or impact
3. **Accept:** Inherent risk of the product that cannot be mitigated
4. **Transfer:** Transfers the risk to the user.
  - a. **Officially via the User Instructions**

**Annex ANNEX II INFORMATION AND INSTRUCTIONS TO THE USER** "any known or foreseeable circumstance, related to the use of the product with digital elements in accordance with its intended purpose or under conditions of reasonably foreseeable misuse, which may lead to significant cybersecurity risks"



# Residual Risk Score

1. **Input:** List of identified threats / failure events with treatment decision
2. **Steps:**
  - a. Document risk treatment as evidence
  - b. Repeat estimation of risk score to get residual risk
3. **Result:** List of risks with treatment and residual risk score

## Risk Treatment

Threat / Event	Inherent Risk (LxI)	Treatment	Residual Risk (LxI)
<b>External Attacker:</b> Remote API exploit (Mass Scale)	$6 \times 9 = 54$ (Critical)	Mitigate Likelihood + Impact	$2 \times 6 = 12$ (Low)
<b>Power Failure:</b> Loss of unlock functionality	$2 \times 9 = 18$ (Medium)	Mitigate Likelihood	$1 \times 9 = 9$ (Low)
<b>Malicious Insider:</b> Local system settings change	$3 \times 5 = 15$ (Low)	Accept	15 (Low)

# Risk communication



## Clearly communicate Risks to users of the product

1. **Speak the User's Language:** Use simple, non-technical terminology and accessible formats (like multi-modal or written) that match the stakeholder's specific needs.
2. **Be Honest About Residual Risks:** Clearly describe any remaining risks and the specific circumstances or contexts that could lead to a security issue.
3. **Give Clear "How-To" Instructions:** Provide actionable steps for safe onboarding, integration, and daily operation to help the user mitigate known threats.
4. **Put it in the Manual:** Ensure all risk treatment information and expectations for the user are officially included in the product's "Instructions for Use".

## Communication



# Risk monitoring and review



# Learn to live with it!

- 1. Prepare for lifelong risk management**
  - a. Risk management needs to be applied over the support period. For some products this will be not 5 but 10-15 years (PLCs, IoT, Routers, ...)
- 2. Define review intervals**
- 3. Define sources to find new vulnerabilities or threats that are applicable to your product**
- 4. Update your risk register based on this information**
- 5. Communicate new risks that are transferred to the user of the product**



# Documents you should have in the end

1. **Product Context**
  - a. Architecture, Design, Dependencies, User profile, purpose, ...
2. **Acceptance Criteria + Risk Methodology**
  - a. Risk Rating + Acceptance of risk
3. Documented **Risk Assessment** in a **Risk Register**
  - a. **All Identified risks: inherent risk, treatment decision, residual risk**
4. **Risk Treatment Evidence** and mapping to **Risk Register**
  - a. Pentests, Designs, PRs, ...
5. **Essential Cybersecurity Requirements** Mapping to **Risk Register**
  - a. Justification why a requirements does not need to be implemented based on the linked risks
6. **Review, Monitoring and Communication Plan** plus **Monitoring Evidence**
  - a. Sources (CVE DBs), Vulnerability Scanners, Review Meeting recordings



**WAIT! I'VE SPENT MORE TIME DOCUMENTING**



**THE RISK THAN I DID CREATING IT**



## Significant Change of product

- Significant change of product is based on the change of the risk assessment of the product. If you 'LOWER' the risk of your product with a significant change, you don't fall under the retrofit CRA classification of your product.
- For doing this you need a risk assessment in the first place



# Risk assessment needs to look in the future

- Based on product and expected operational lifetime the risk for the product come with new technology in the future
  - IoT devices are 5-25 years in the field. Then post quantum cryptography may be a threat against your entire encryption implementation in the next 10 years



# Vulnerability Handling

- Based on your risk register and risk assessments you need to apply vulnerability management actions from CRA Annex I Part 2

**Bonus**

