

# Insider Threat Report

## Identified Elements

The most vulnerable BPMN elements are listed below and ordered according to the number of times the user has depicted the element as a potential attack target.

### 1. Secure storage (4)

#### Threats identified

Confidential data acquisition  
Confidential data view  
Unauthorized access to credentials  
Data corruption

### 2. Process and forward (3)

#### Threats identified

Confidential data transfer  
Data corruption  
Malware installation

### 3. Prepare publication of results (2)

#### Threats identified

Data corruption  
Malicious code modification

### 4. Collect voting envelope (1)

#### Threats identified

Confidential data view

### 5. Receive ballot envelope (1)

#### Threats identified

Confidential data view

### 6. Personally cast the vote at the urn of the municipality (1)

#### Threats identified

Data corruption

### 7. Cast voting envelope in letterbox (1)

#### Threats identified

Data corruption

### 8. Post voting envelope into letterbox of municipality (1)

Threats identified

Data corruption

## 9. Securely store voting envelopes (1)

Threats identified

Data corruption

## 10. Start tallying paper ballots (1)

Threats identified

Data corruption

# Insider Threat Report

## Identified Threats

In the part below you find a description for each threat that was found by the Insider Threat Modeler. As this prototype does not include any suggestions for controls or countermeasures, please discuss with a cyber security expert to decide if further measures are needed to mitigate the threats.

### Confidentiality

#### Confidential data acquisition

Data that is being stolen or used inappropriately is in this category. The attack can target not only a computer system but also a web service when for instance a session is being hijacked.

#### Confidential data view

If sensitive data is being inspected apart from the normal usage, the attack belongs to confidential data view.

#### Confidential data transfer

The illegal distribution of confidential files such as password lists, financial information, and other sensitive material is a part of confidential data transfer.

#### Unauthorized access to credentials

Attacks in this category happen when an insider gets access to crypto keys and other credentials without authorization

### Integrity

#### Data corruption

With data corruption, the fraudulent modification of data can be understood. It happens when information is manipulated within either an application or also a system. Incidents in the past have shown that tampering with cookies is a widely used technique to corrupt data in an unauthorized manner.

#### Malicious code modification

In software code programming small modifications can have a huge impact. Logic bombs, trojan horses, and other malicious code injections are examples of this attack group.

#### Malware installation

The installation of malware can originate from various sources. The use or download of illegal software or offensive material has a higher chance of containing trojan horses or trapdoors in order to compromise a computer system.