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# Top 10:2025-RC1 - Neuerungen und Hintergründe -

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# Who Are We (project team)?

- **Goals:** Transparency, conceptual integrity and to include our community
- **Team:** Andrew van der Stock, Brian Glas, Neil Smithline, Tanya Janca (new in this version), Torsten Gigler
- **Where the team lives:**  
USA: 2, Australia: 1, Canada: 1, Germany: 1

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- **Über mich (Torsten Gigler)**
    - interner IT-Sicherheits-Berater und -Architekt (> 25 Jahre)
    - **bei OWASP seit 2013 aktiv:**
      - **Co-Lead OWASP-Top10-Projekt** (seit 2017, Contributor seit 2013)
      - Mitorganisator **OWASP Stammtisch München** (seit 2015)
      - Contributor 'O-Saft - OWASP SSL Advanced Forensic Tool'
      - Projekt-Lead "OWASP Open Security Information Base (**OSIB**)" (2023)



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# 01 What the Top Ten is (and isn't)

# What the Top Ten is (and isn't):

- **Top 10 Risks to Web Apps**
- First released in 2003, **2025 is the 8th update**
- **A data-driven awareness document**
- **An appetizer for secure coding and code review**
- **Not a standard or compliance checklist**
- **Although there are 10 items, please do not stop there.** 🙏

**Quick disclosure:** The Top Ten items are finalized, but the writing is still in draft. We want and need your feedback



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# 02 How the 2025 List was Built

## High Level Process

- We ask for data... **It takes 14-16 months**
- **Normalize the data**
- **Pull National Vulnerability Database for CVE -> CWE**
- **Normalize Exploit and Impact from CVSS**
- **Determine the formula weighting**
- **Group CWEs into logical categories**
- **Build a data Top Ten**
- **Run Community Survey**
- **Weigh the survey with the data**
- **Determine the new Top Ten**
- **Write** a lot, discuss, write more, review, feedback, discuss, release



# Data Factors

## Data stats:

- 2017: >100.000 APPs, 30 CWEs
- 2021: >500.000 APPs, 390 CWEs
- 2025: >2.800.000 APPs, 686 CWEs

## → Contributors:

- Accenture (Prague)
- Bugcrowd
- Contrast Security
- CryptoNet Labs
- Intuitor SoftTech Services
- Orca Security
- Probley
- Semgrep
- Sonar
- usd AG
- Veracode
- Wallarm
- ... Anonymous (multiple)

# Data Factors

## High Watermark

Category	Incidence	Coverage	Exploit	Impact	Occurrences	Score	Rank
Software Supply Chain Failures	88.14	65.42	81.7	104.7	21.52	361.42	10
Cryptographic Failures	137.74	100.00	72.3	77.9	166.53	554.56	3
Security Misconfiguration	276.99	100.00	79.6	79.4	71.91	607.89	2
Authentication Failures	158.00	100.00	76.9	88.8	112.07	535.74	5
Software or Data Integrity Failures	89.78	78.52	71.1	95.7	50.13	385.22	9
Memory Management Errors	29.57	55.62	67.5	96.3	22.04	271.08	12
Insecure Design	221.81	88.76	69.6	81.0	72.99	534.19	6
Injection	137.65	100.00	71.5	86.4	140.42	535.96	4
Broken Access Control	201.52	100.00	70.4	76.8	183.97	632.68	1
Logging & Alerting Failures	113.33	85.96	71.9	53.0	26.03	350.20	11
Mishandling of Exceptional Condition	206.72	100.00	71.1	76.2	76.96	531.00	7
Lack of Application Resilience	200.47	86.01	79.2	69.8	86.51	521.95	8
Weight	1000	100	10	20	10000		



# The Survey Results

Ranking	Category	Score
#1	Software Supply Chain Failures	522
#2	Software or Data Integrity Failures	273
#3	Logging & Alerting Failures	200
#4	Lack of Application Resilience	193
#5	Mishandling of Exceptional Conditions	178
#6	Memory Management Errors	98

	#1	#2	#3	Total
Software Supply Chain Failures	106	37	24	<b>167</b>
Software or Data Integrity Failures	32	50	45	<b>127</b>
Logging & Alerting Failures	18	43	42	<b>103</b>
Lack of Application Resilience	19	38	41	<b>98</b>
Mishandling of Exceptional Conditions	22	25	40	<b>87</b>
Memory Management Errors	15	13	12	<b>40</b>
<b>225 Survey Submissions</b>	<b>212</b>	<b>206</b>	<b>204</b>	<b>622</b>



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# 03 The New Top 10

# The OWASP Top Ten 2025

A01:2021 → A01:2025 Broken Access Control

A05:2021 ↗ A02:2025 Security Misconfiguration

A06:2021 ↗ **A03:2025 Software Supply Chain Failures**

A02:2021 ↘ A04:2025 Cryptographic Failures

A03:2021 ↘ A05:2025 Injection

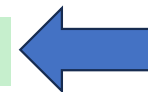
A04:2021 ↘ A06:2025 Insecure Design

A07:2021 → A07:2025 Authentication Failures

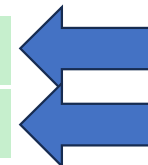
A08:2021 → A08:2025 Software or Data Integrity Failures

A09:2021 → **A09:2025 Logging & Alerting Failures**

**A10:2025 Mishandling of Exceptional Conditions**



**Greatly  
Expanded!**



**Expanded!  
Brand New!**

## A03:2025 Software Supply Chain Failures



- In **2017** this was "**Using Components with Known Vulnerabilities**"
- In **2021** this was "**Vulnerable and Outdated Components**"
- And now, for **2025**, this is "**Software Supply Chain Failures**"
  - "Supply chain vulnerability" has become a commonly used term
- It is **ranked #3** because:
  - It was top-ranked in the **community survey** with 50% (106 out of 212) ranking it #1 with 100% ranking it in top 3
  - These attacks are **growing in frequency** (but only 11 CVEs, yet)
  - However, when **tested** and reported in the contributed data, this category has the **highest average incidence rate** at 5.19%.

# A09:2025 (Security) Logging & Alerting Failures



- In **2017** this was "**Insufficient Logging & Monitoring**"
- In **2021** this was "**Security Logging and Monitoring Failures**"
- And now, for **2025**, this is "**(Security) Logging & Alerting Failures**", stays at 9th (data was 11th, survey was 3rd)
- **Slight name change** to emphasize the alerting function needed to induce action on relevant logging events
- Not many CWEs (5), not much CVE/CVSS data, but detecting and responding to breaches is critical
- **Can be challenging to test.** Request reports from the Blue Team after a penetration or Red Team test

# A10:2025 Mishandling of Exceptional Conditions

- This category is **brand new**. It was very close in the **data** to “Lack of Application Resilience”, but the **community feedback** brought it just over the threshold
- **Contains 24 CWEs, focuses on improper error handling, logical errors, failing open**
- **Programs fail to prevent, detect, and respond to unusual and unpredictable situations**, which leads to crashes, unexpected behavior, and sometimes vulnerabilities
- Any time an **application is unsure** of its **next instruction**, an exceptional condition has been mishandled.





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**THANK YOU!**

