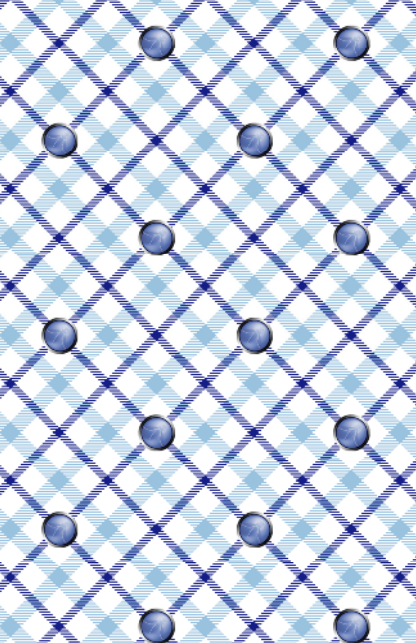






You have invented a new attack  
against Data Validation and  
Encoding

*Read more about this topic in  
OWASP's free Cheat Sheets  
on Input Validation, XSS  
Prevention, DOM-based  
XSS Prevention, SQL  
Injection Prevention, and  
Query Parameterization*



Brian can gather information about the underlying configurations, schemas, logic, code, software, services and infrastructure due to the content of error messages, or due to poor configuration, or due to the presence of default installation files or old, test, backup or copies of resources, or exposure of source code

---

OWASP SCP

69, 107-109, 136, 137, 153, 156, 158, 162

---

OWASP ASVS

4.5, 8.1, 8.2

---

OWASP AppSensor

HT1-3

---

CAPEC

54, 224

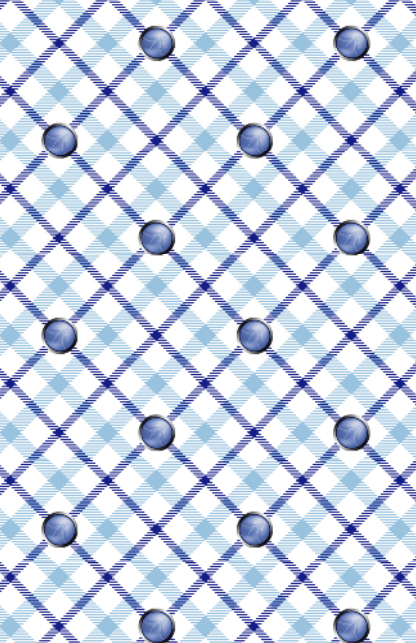
---

SAFECode

4, 23

---

OWASP Cornucopia Ecommerce Website Edition v1.02



Robert can input malicious structured or unstructured data because the allowed protocol format is not being checked, or the structure is not being verified, or the individual data elements are not being validated for format, type, range, length and a whitelist of allowed characters or formats

---

OWASP SCP

8, 9, 11-14, 16, 159, 190, 191

---

OWASP ASVS

5.2

---

OWASP AppSensor

RE7-8, AE4-7, IE2-3, CIE1, CIE3-4, HT1-3

---

CAPEC

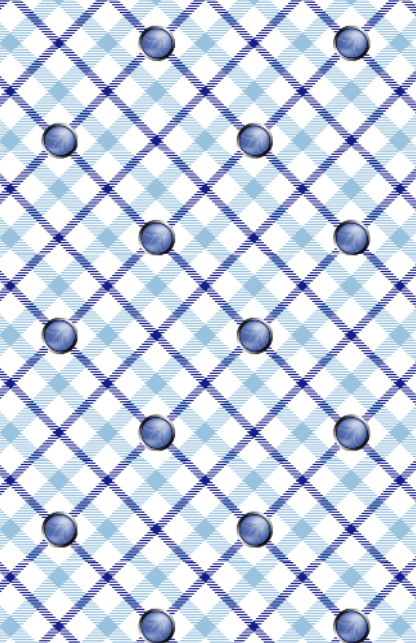
28, 48, 126, 165, 213, 220, 221, 257, 261, 271, 272

---

SAFECode

3, 16, 24, 35

---



Dave can input malicious data because it is not being checked within the context of the current user and process

---

OWASP SCP

8, 10, 183

---

OWASP ASVS

5.2, 11.1

---

OWASP AppSensor

RE3-6,AE8-11,SE1,3-6,IE2-4,HT1-3

---

CAPEC

28, 31, 48, 126, 162, 165, 213, 220, 221,261

---

SAFECode

24, 35

---

OWASP Cornucopia Ecommerce Website Edition v1.02





Jee can bypass the centralized encoding routines since they are not being used comprehensively, or the wrong encodings are being used for the context

---

OWASP SCP

3, 15, 18, 19, 168

---

OWASP ASVS

6.9

---

OWASP AppSensor

-

---

CAPEC

28, 31, 152, 160, 468

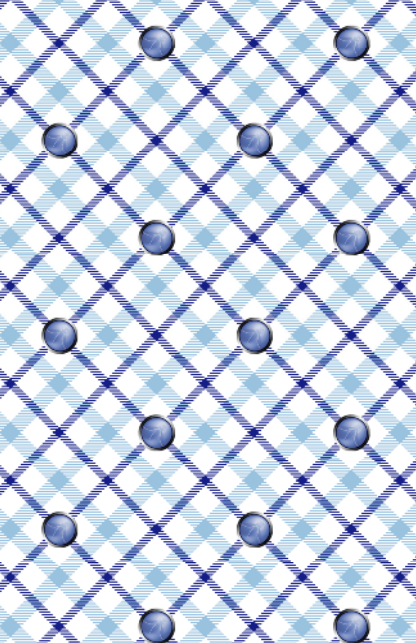
---

SAFECode

2, 17

---

OWASP Cornucopia Ecommerce Website Edition v1.02



Jason can bypass the centralized validation routines since they are not being used comprehensively on all inputs

---

OWASP SCP

3, 168

---

OWASP ASVS

5.2, 5.6, 6.9

---

OWASP AppSensor

IE2-3

---

CAPEC

28

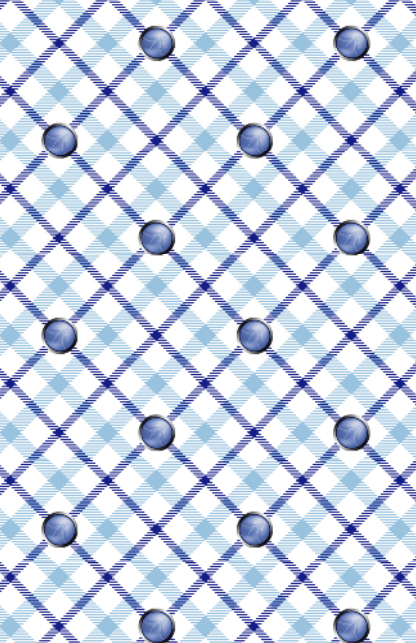
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SAFECode

3, 16, 24

---

OWASP Cornucopia Ecommerce Website Edition v1.02



Jan can craft special payloads to foil input validation because the character set is not specified/enforced, or the data is encoded multiple times, or the data is not fully converted into the same format the application uses (e.g. canonicalization) before being validated, or variables are not strongly typed

---

OWASP SCP

4, 5, 7, 150

---

OWASP ASVS

5.4, 5.8, 10.9

---

OWASP AppSensor

IE2-3, EE1-2

---

CAPEC

28, 153, 165

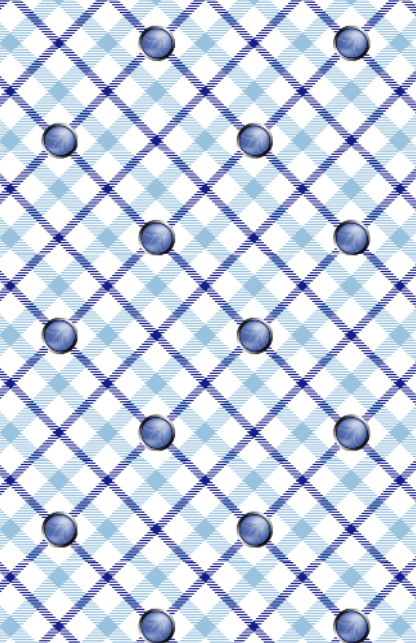
---

SAFECode

3, 16, 24

---

OWASP Cornucopia Ecommerce Website Edition v1.02



Sarah can bypass the centralized sanitization routines since they are not being used comprehensively

---

OWASP SCP  
15, 169

---

OWASP ASVS  
6.9, 8.7

---

OWASP AppSensor  
-

---

CAPEC  
28, 31, 152, 160, 468

---

SAFECode  
2, 17

---

OWASP Cornucopia Ecommerce Website Edition v1.02





Shamun can bypass input validation or output validation checks because validation failures are not rejected or sanitized

---

OWASP SCP

6, 168

---

OWASP ASVS

5.3

---

OWASP AppSensor

IE2-3

---

CAPEC

28

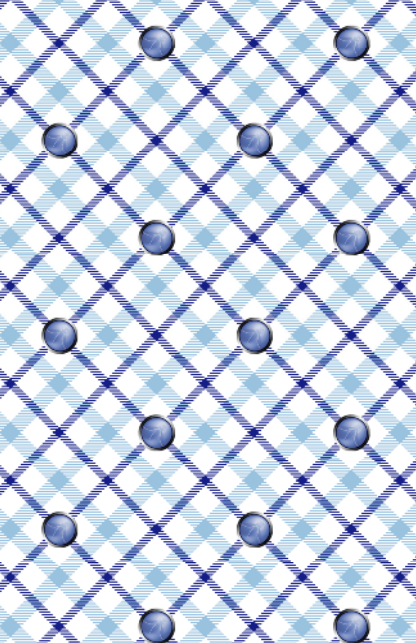
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SAFECode

3, 16, 24

---

OWASP Cornucopia Ecommerce Website Edition v1.02



Jerry can exploit the trust the application places in a source of data (e.g. user-definable data, manipulation of locally stored data, alteration to state data on a client device, lack of verification of identity such as Jerry can pretend to be Colin)

---

OWASP SCP

2, 19, 92, 95, 180

---

OWASP ASVS

10.6

---

OWASP AppSensor

IE4, IE5

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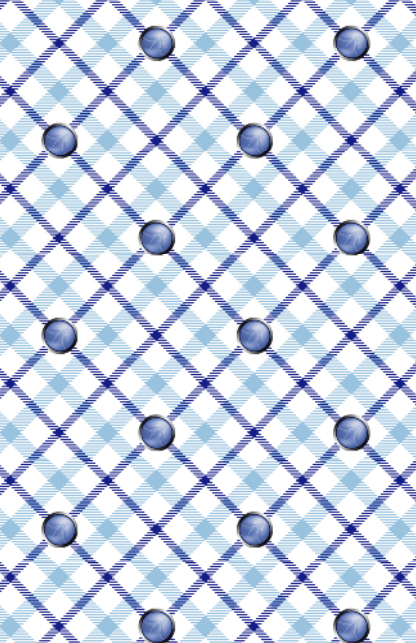
CAPEC

12, 51, 57, 90, 111, 145, 194, 195, 202, 218, 463

---

SAFECode

14



Dennis has control over input validation, output validation or output encoding code/routines so they can be bypassed

---

OWASP SCP

1, 17

---

OWASP ASVS

5.5, 6.2

---

OWASP AppSensor

RE3, RE4

---

CAPEC

56, 87, 207

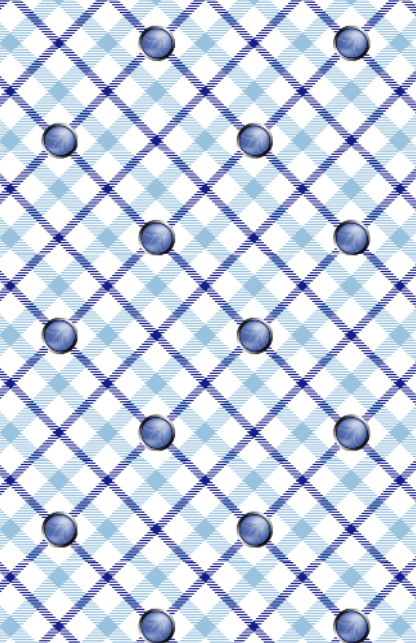
---

SAFECode

2, 17

---

OWASP Cornucopia Ecommerce Website Edition v1.02



Geoff can inject data into a client or device interpreter because a parameterised interface is not being used, or has not been implemented correctly, or the data has not been encoded correctly for the context, or there is no restrictive policy on code or data includes

---

OWASP SCP  
10, 15, 16, 19, 20

---

OWASP ASVS  
6.1, 6.3, 6.8

---

OWASP AppSensor  
IE1, RP3

---

CAPEC  
28, 31, 152, 160, 468

---

SAFECode  
2, 17

---

OWASP Cornucopia Ecommerce Website Edition v1.02





Gabe can inject data into an server-side interpreter (e.g. SQL, OS commands, Xpath, Server JavaScript, SMTP) because a strongly typed parameterised interface is not being used or has not been implemented correctly

---

OWASP SCP

15, 19-22, 167, 180, 203, 210, 211

---

OWASP ASVS

6.3, 6.4, 6.5, 6.6, 6.7, 6.8

---

OWASP AppSensor

CIE1-2

---

CAPEC

23, 28, 76, 152, 160, 261

---

SAFECode

2, 19, 20

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OWASP Cornucopia Ecommerce Website Edition v1.02