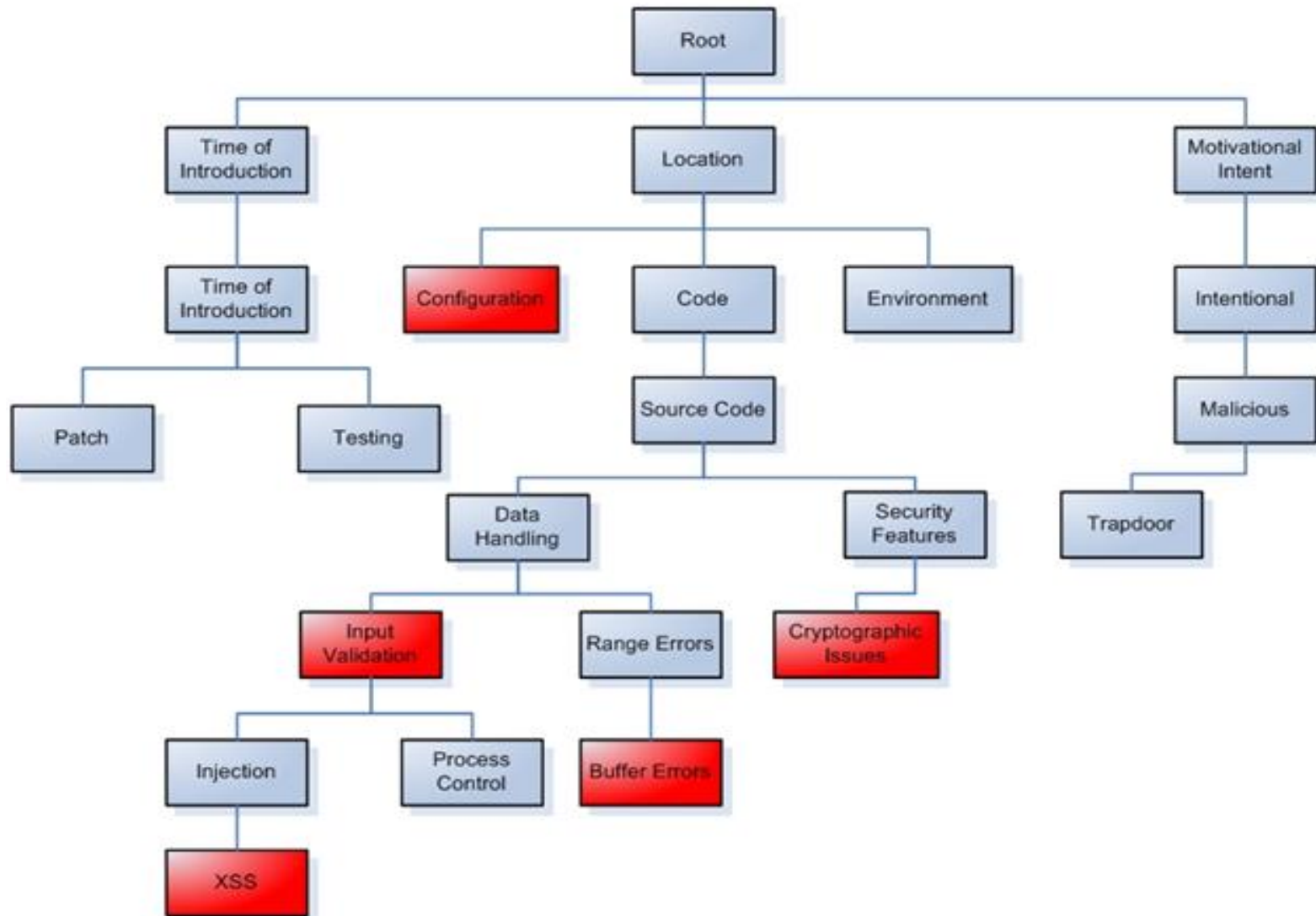


Системы классификации уязвимостей сервисов

- NVD (National Vulnerability Database) – Национальная база данных уязвимостей правительства США предназначена для автоматизации управления уязвимостями и их соответствием программному обеспечению, в составе:
 - ✓ CVE (Common Vulnerabilities and Exposures) – список известных уязвимостей, имеющий строгое структурирование по описательным критериям;
 - ✓ CWE (Common Weakness Enumeration) – словарь категорий уязвимостей в программных продуктах;
 - ✓ CPE (Common Platform Enumeration) – система идентификации программных продуктов;
 - ✓ CVSS (Common Vulnerability Scoring System) – система оценки степени опасности различных уязвимостей;
- BID;
- OSVDB;
- Secunia;
- ISS X-Force;
- Отдельные классификации различных сканеров уязвимостей.

Структура CWE



Представление данных в реестре CWE (фрагмент)

- **V** Path Equivalence: Windows 8.3 Filename - (58)
- **B** Symbolic Name not Mapping to Correct Object - (386)
- **C** Improper Access Control - (284)
- **C** Improper Authentication - (287)
 - **C** Authentication Bypass Issues - (592)
 - **B** Authentication Bypass Using an Alternate Path or Channel - (288)
 - **B** Direct Request ('Forced Browsing') - (425)
 - **V** Authentication Bypass by Alternate Name - (289)
 - **V** Authentication Bypass by Assumed-Immutable Data - (302)
 - **B** Authentication Bypass by Capture-replay - (294)
 - **B** Authentication Bypass by Primary Weakness - (305)
 - **B** Authentication Bypass by Spoofing - (290)
 - **V** Trusting Self-reported DNS Name - (292)
 - **B** Trusting Self-reported IP Address - (291)
 - **B** Modification of Assumed-Immutable Data (MAID) - (471)
 - **B** Use of Less Trusted Source - (348)
 - **V** Using Referer Field for Authentication - (293)
 - **V** Authentication Bypass: OpenSSL CTX Object Modified after SSL Objects are Created - (593)
 - **C** Channel Accessible by Non-Endpoint ('Man-in-the-Middle') - (300)
 - **B** Improper Restriction of Excessive Authentication Attempts - (307)
 - **B** Incorrect Implementation of Authentication Algorithm - (303)
- **B** Insufficiently Protected Credentials - (522)
 - **V** J2EE Misconfiguration: Plaintext Password in Configuration File - (555)
 - **V** Missing Password Field Masking - (549)
 - **V** Password in Configuration File - (260)
 - **V** ASP.NET Misconfiguration: Password in Configuration File - (13)
 - **V** Empty Password in Configuration File - (258)
 - **V** Plaintext Storage of a Password - (256)
 - **B** Storing Passwords in a Recoverable Format - (257)

Пример описания уязвимостей в NVD

```
</entry>
<entry id="CVE-2011-2173">
  <vuln:vulnerable-configuration id="http://nvd.nist.gov/">
    <cpe-lang:logical-test negate="false" operator="OR">
      <cpe-lang:fact-ref name="cpe:/a:ibm:websphere_portal:6.0.1.7" />
      <cpe-lang:fact-ref name="cpe:/a:ibm:websphere_portal:7.0.0.1" />
    </cpe-lang:logical-test>
  </vuln:vulnerable-configuration>
  <vuln:vulnerable-software-list>
    <vuln:product>cpe:/a:ibm:websphere_portal:6.0.1.7</vuln:product>
    <vuln:product>cpe:/a:ibm:websphere_portal:7.0.0.1</vuln:product>
  </vuln:vulnerable-software-list>
  <vuln:cve-id>CVE-2011-2173</vuln:cve-id>
  <vuln:published-datetime>2011-05-26T12:55:06.613-04:00</vuln:published-datetime>
  <vuln:last-modified-datetime>2011-05-27T00:00:00.000-04:00</vuln:last-modified-datetime>
  <vuln:cvss>
    <cvss:base_metrics>
      <cvss:score>4.0</cvss:score>
      <cvss:access-vector>NETWORK</cvss:access-vector>
      <cvss:access-complexity>LOW</cvss:access-complexity>
      <cvss:authentication>SINGLE_INSTANCE</cvss:authentication>
      <cvss:confidentiality-impact>NONE</cvss:confidentiality-impact>
      <cvss:integrity-impact>NONE</cvss:integrity-impact>
      <cvss:availability-impact>PARTIAL</cvss:availability-impact>
      <cvss:source>http://nvd.nist.gov</cvss:source>
      <cvss:generated-on-datetime>2011-05-27T09:17:00.000-04:00</cvss:generated-on-datetime>
    </cvss:base_metrics>
  </vuln:cvss>
  <vuln:cwe id="CWE-399" />
  <vuln:references xml:lang="en" reference_type="UNKNOWN">
    <vuln:source>CONFIRM</vuln:source>
    <vuln:reference href="http://www.ibm.com/support/docview.wss?uid=swg24029452"
xml:lang="en">http://www.ibm.com/support/docview.wss?uid=swg24029452</vuln:reference>
  </vuln:references>
  <vuln:references xml:lang="en" reference_type="UNKNOWN">
    <vuln:source>AIXAPAR</vuln:source>
    <vuln:reference href="http://www-01.ibm.com/support/docview.wss?uid=swg1PM33432" xml:lang="en">PM33432</vuln:reference>
  </vuln:references>
  <vuln:summary>The implementation of OutputMediator objects in IBM WebSphere Portal 6.0.1.7, and 7.0.0.1 before CF002, allows remote authenticated users to cause a denial of service (memory consumption) via requests.</vuln:summary>
</entry>
```