ADVISORY

# Layer Seven Security

## SAP Security Notes

July 2017

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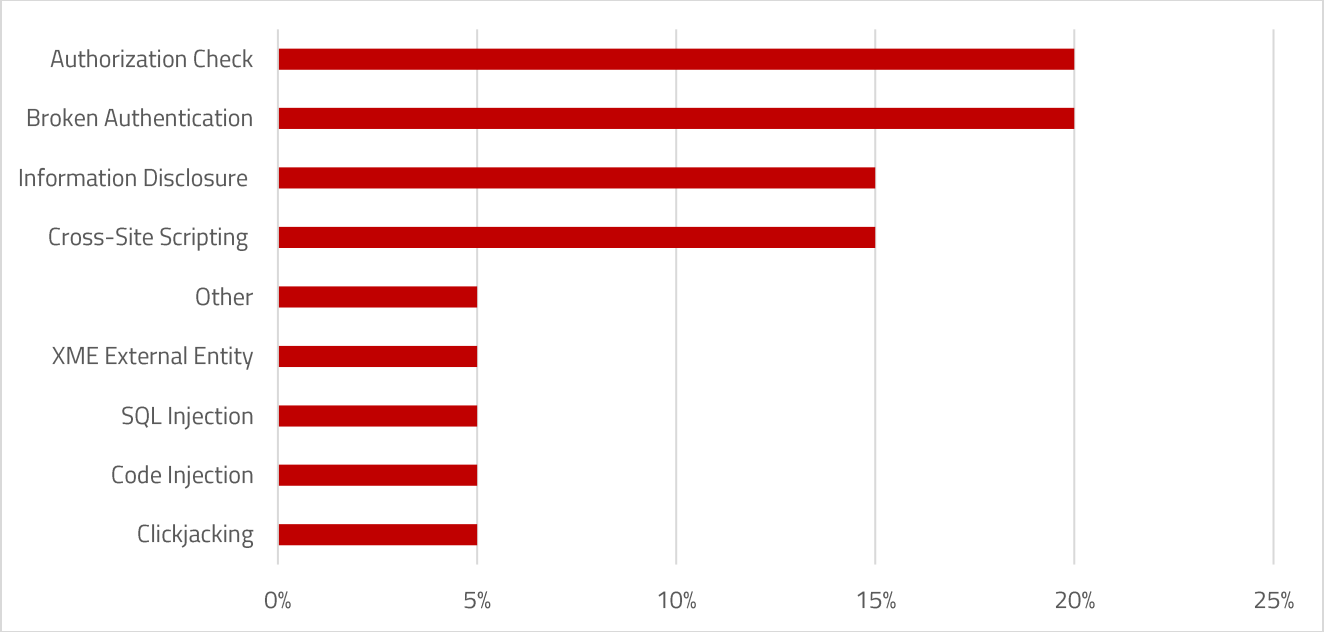
Note 2442993 deals with a high-risk vulnerability in the Host Agent for SAP HANA. The Host Agent is automatically installed with every SAP instance on NetWeaver 7.02 and higher. The stand-alone component is used for controlling and monitoring SAP and non-SAP instances, databases and operating systems. Note 2442993 recommends upgrading to version 7.21 PL25 to remove a vulnerability in earlier versions that could be exploited by attackers to shutdown the Host Agent through malicious SOAP requests used for cross-platform communication via transport protocols such as HTTP and XML. A shutdown of the Host Agent could interrupt the availability of SAP services and explains the high CVSS score of 7.5/10 within the Note. Detailed instructions for upgrading the Host Agent are available in Note 1031096. The command ./saphostexec -upgrade should be performed after steps 1-4 outlined in the installation section of the Note.

Note 2476601 has an even higher CVSS score of 8.1/10. The note removes missing authentication checks in the SAP Point-of-Sale (POS) Xpress Server. The POS Xpress Server integrates components within the SAP POS suite including applications, clients and databases. Xpress Servers with Internet connectivity are particularly vulnerable to exploits targeting the missing authentication checks patched by the Note.

Note 2478377 recommends upgrading Sybase products impacted by Sweet32 attacks that target design weaknesses in




SAP Security Notes by Vulnerability Type

some 64-bit block ciphers such as Triple-DES and Blowfish commonly used by the Internet protocols TLS, SSH and IPSec. The Sweet32 attack was discovered by researchers from the French National Research Institute for Computer Science (INRIA) in 2016 and can be used to recover HTTP session cookies in some specific scenarios.

Notes 2100926, 2184221 and 2185122 introduce switchable authorization checks for certain RFC enabled function modules in Business Warehouse, Public Services, and Master Data Governance. Switchable authorization checks supplement checks for the S_RFC authorization object and should be activated using transaction SACF.

# Appendix: SAP Security Notes, July 2017

| PRIORITY | NOTE | AREA | DESCRIPTION |
|---|---|---|---|
| HIGH | 2442993 | BC-CCM-HAG | Malicious SAP Host Agent Shutdown without Authentication |
| HIGH | 2476601 | IS-R-TGM-POS | Missing Authentication checks in SAP Point of Sale (POS) Retail Xpress Server |
| HIGH | 2416119 | BC-JAS-WEB | Improved security for outgoing HTTPS connections in SAP NetWeaver |
| MEDIUM | 2290783 | BC-JAS-WEB | Whitelist based Clickjacking Framing Protection for Java Server Pages |
| MEDIUM | 2478964 | CRM-ISA | Cross-Site Scripting (XSS) vulnerability in SAP CRM Internet Sales Administration Console |
| MEDIUM | 2458021 | BI-BIP-AUT | Information Disclosure vulnerability in LDAP Authentication for SAP BusinessObjects Enterprise |
| MEDIUM | 2453640 | GRC-SAC-ARQ | Code Injection vulnerability in Governance, Risk and Compliance Access Controls |
| MEDIUM | 2424742 | MDM-FN-CON | Information Disclosure in SAP NetWeaver Master Data Management |
| MEDIUM | 2409262 | BI-BIP-LCM | Cross-Site Scripting (XSS) vulnerability in BI Promotion Management Application |
| MEDIUM | 2398144 | BI-DEV-WEB | Missing XML Validation vulnerability in SAP Business Objects Titan |
| MEDIUM | 2100926 | FIN-SEM-BCS-IS-BW | Switchable authorization checks for RFC in SEM-BCS |
| MEDIUM | 2184221 | PSM-FM-CL | Switchable authorization checks for year-end closing transactions |
| MEDIUM | 2218598 | FS-MCM-FAC | Additional authorization checks in facilities component |
| MEDIUM | 1568213 | CRM-CHM | PCM - Implement enhancement: Restrict Access to WebClient UI |
| MEDIUM | 2158791 | EP-KM-WD | Caching KM Content in the Portal |
| MEDIUM | 2088593 | LO-MD-BP-CM | Potential disclosure of persisted data in LO-MD-BP-CM & LO-MD-BP-VM |
| LOW | 2478377 | BC-SYB-SQA | Exposure to Sweet32 vulnerability in multiple SAP Sybase products |
| LOW | 1920522 | SCM-BAS-UIF | Unauthorized modification of stored content in SCM-BAS-UIF |
| LOW | 2459319 | BC-MOB-DOE | Weak encryption used in SAP Netweaver Data Orchestration Engine |
| LOW | 2185122 | CA-MDG-APP-FIN | Switchable authorization checks for RFC in data extraction within CA-MDG-APP-FIN |

LAYER SEVEN SECURITY

Layer Seven Security serve customers worldwide to harden, patch and monitor SAP systems against cyber threats using SAP Solution Manager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