



# The IT Health Check for PSN

## Standard Content

APRIL 2013

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## 1. IT HEALTH CHECK FOR PSN

Sec-1's standard ITHC testing methodology supports and validates many areas of the PSN IA Conditions by providing your annual External Penetration Test and Internal Vulnerability Assessment, Password Audit and Wireless Network Test. Additional conditions can be addressed as necessary.

### 1.1. HOW DOES THE ITHC OFFERED BY SEC-1 MEET THE PSN IA CONDITIONS?

As a CHECK "Green-Light" status company, Sec-1 is well placed to provide IT security testing services for organisations holding protectively marked information up to and including CONFIDENTIAL.

Sec-1 has been performing IT Health Checks for Local Authorities throughout the UK since the company was formed in 2001. We follow a standard methodology across testers for quality assurance and we are CREST accredited (Infrastructure & Applications).

Sec-1 offer a range of security testing services specifically designed to meet the Information Assurance requirements of the PSN CoCo - our standard IT Health Check for PSN Package includes the following:

- Mapping and Enumeration
  - Network diagrams are reviewed and reconnaissance exercises are performed to identify active nodes and identify key/interesting targets to prioritise targets for the assessment
  - Information gathering exercises are performed to provide input other tests which are required when attacking the system such as Domain Controllers and other critical UNIX/Linux based systems
  - Applications based on web technologies are mapped to identify key targets for further assessment
  - Supports PSN IA Conditions *DIA.1, DIA.2, CON.1, OBF.1, CON.3 & CON.4*
- Internal Vulnerability Assessment
  - Automated vulnerability scanning is performed to identify common vulnerabilities in systems which can lead to them being easily compromised
  - Manual Penetration Testing and privilege escalation tests of key systems are performed to determine the true impact and scope of a particular vulnerability
  - Internal "Wide-Area" Vulnerability Assessment to provide a comprehensive overview of security risks, vulnerabilities and patch management
  - Supports PSN IA Conditions *CON.1, CON.4, CON.6, MAL.2, PRO.5, PAT.1 & PAT.2*
- External Vulnerability Assessment
  - Internet-connected systems are scanned for infrastructure and application level vulnerabilities
  - Supports PSN IA Conditions *CON.1, CON.5, OBF.1, PAT.1 & PAT.2*

- Password Audit
  - User authentication services and passwords are analysed for complexity and protection mechanisms
  - Password policies and management techniques are reviewed to assess the risk of compromise of authentication systems
  - Supports PSN IA Conditions *ACC.1, ACC.2 & CON.1*
- Wireless Network Analysis
  - Authentication and encryption mechanisms are analysed against best practise
  - Signal bleed and network segmentation is reviewed to ensure access controls on boundaries between wired and wireless segments have been implemented correctly
  - Supports PSN IA Conditions *WIR.1, OBF.1, BOU.3 & BOU.4*

The output of an IT Health Check performed by Sec-1 is a comprehensive, clear and concise report designed to provide information for a diverse audience of readers. Broken down into four key sections, the report delivers:

- An Executive Summary providing a summary overview of the entire assessment including recommendations to improve the security posture of the in-scope environment
- A Graphical Summary of the key findings, split and ranked to demonstrate the relative risk of a vulnerability
- A Security Evaluation by Category to highlight areas of evaluation which are measured against “best in class” criteria for security standards
- A Technical Vulnerability Analysis providing a detailed description of each vulnerability, prioritised based upon the ease of exploit, level of effort to remedy and severity of impact if exploited. Each vulnerability is presented in a clear and concise format highlighting the impact, probability and affected hosts alongside an extended discussion of the findings and recommendations for remediation.

For a full list of options available, feel free to request a copy of our IT Health Check Methodology document or a sample IT Health Check report from [info@sec-1.com](mailto:info@sec-1.com).

## FOR MORE INFORMATION

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