

# United States Department of Interior

## Office of Inspector General Washington D.C. 20240

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#### Memorandum

To:

W. Hord Tipton, Chief Information Officer, Department of the Interior

Ronnie Levine, Chief Information Officer, Bureau of Land Management

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From:

Michael F. Wood

Assistant Inspector General

for Administrative Services and Information Management

Subject:

OIG Report "NSM-EV-BLM-0020-2005-Penetration Testing" External

Penetration Testing of Bureau of Land Management

### **Background**

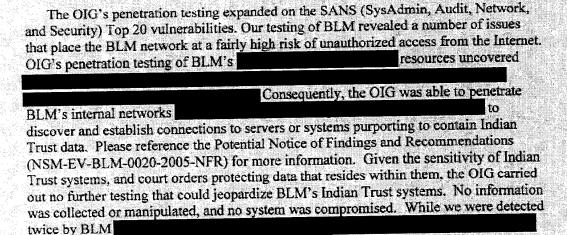
As part of the Inspector General's Federal Information Security Management Act responsibilities, penetration testing was conducted on the Bureau of Land Management (BLM) from February 21, through March 11, 2005. The purpose of the testing was to identify, attempt exploitation, and document vulnerabilities that could be used to gain access to BLM's systems and to evaluate BLM's incident response capabilities. Our findings are presented in two reports. The first report is a high level summary for non-technical managers and the second is a detailed technical report for security officers, system and network administrators.

## Summary of Testing

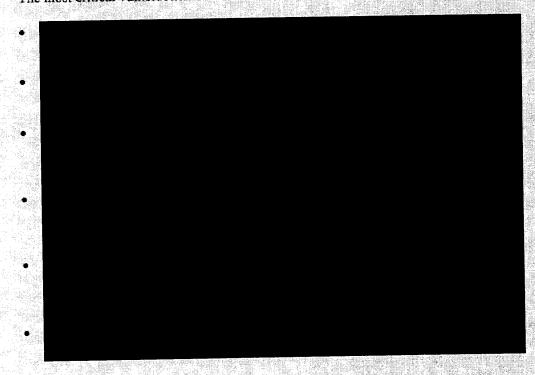
Testing was conducted under the protocols agreed to within the Rules of Engagement (ROE) between the Office of Inspector General (OIG) and the Department of the Interior (DOI) Office of the Chief Information Officer (OCIO). BLM was not advised of the testing. The OCIO provided the OIG test team with sensitive information that would not normally be available to an outside entity. However, the OIG chose not to utilize the information and conducted its testing to best resemble a real Internet based attack. As a result we identified seven additional network address ranges not included in the DOI provided list. Our testing identified a large network that could support 65,535 possible devices. Sixty-six different services, such as web browsing, email, and file

transfer protocol, are accessible from the Internet. Our Internet research revealed 50 web sites publishing some 450,000 pages intended for public use<sup>1</sup>.

### **Findings**



The most critical vulnerabilities are noted below:

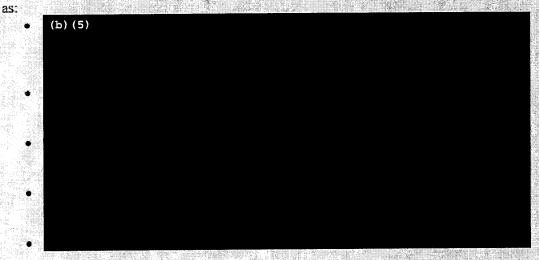


See OIG Report 2003-1-0051, "Moving To a Customer-Centered Web Presence", for recommendations on improving and securing DOI's web presence.

Extensive details, analysis and recommendations are provided in the accompanying technical report.

#### Recommendations

Implement all corrective actions and recommendations noted within the report, such



Please provide a report documenting what corrective actions have been taken to address the vulnerabilities detailed in the technical report. A copy of your response should be forwarded to this office by May 6, 2005. Vulnerabilities and their associated recommendations should be managed through the existing Plan of Actions & Milestones process.

#### Attachment

cc: Associate Deputy Security, James E. Cason
Bureau Director, Bureau of Land Management - Kathleen Clarke