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## **Research Reveals “Human” Issues as Top Cyber Security and Business Risk**

*Second research report from ESG and ISSA’s groundbreaking global study of cyber security professionals finds cyber security skills shortage impacts 69% of organizations and sends strong message that they want more help from their national governments*

**Milford, MA and Reston, VA – December 15, 2016** – Building on the conclusions of the recent groundbreaking global study finding that the cyber security profession is at risk, the Information Systems Security Association (ISSA) and independent industry analyst firm Enterprise Strategy Group (ESG) revealed today new cyber security and business risks. In aggregate 54% cyber security professionals surveyed admitted that their organization experienced at least one type of security event over the past year. Yet, surprisingly, none of the top contributors to these cyber-attacks and data breaches are related to cyber technology. Rather they point to human issues such as a lack of enough cyber security staff members as well as a lack of employee training and boardroom prioritization.

Further supporting this finding, 69% of cyber security professionals say the global cyber security skills shortage has had an impact on the organization they work for leading to excessive workloads, inappropriate skill levels, high turnover and an acute shortage especially in the areas of security analytics, application security and cloud security.

In this time with fluid world events, such as the U.S. presidential transition, cyber security professionals surveyed also send a strong message to national government: The vast majority believe that their nation’s critical infrastructure is extremely vulnerable or vulnerable to some type of significant cyber-attack and want government more involved in cyber security strategies and defenses. Going further they recommend specific actions government should take, leading with: providing better ways to share security information with the private sector; incentives to organizations that improve cyber security; and funding for cyber security training and education.

“There’s lots of research indicating a global cyber security skills shortage but there was almost nothing that looked at the associated ramifications. Based upon the two ESG/ISSA reports, we now know that beyond the personnel shortage alone, cyber security professionals aren’t receiving appropriate levels of training, face an increasing workload, and don’t always receive adequate support from the business,” said Jon Oltsik, Senior Principal Analyst at the Enterprise Strategy Group (ESG). “Simply stated, these findings represent an existential threat. How can we expect cyber security professionals to mitigate risk and stay ahead of cyber threats when they are understaffed, underskilled, and burned-out?”



Based upon the data collected from the first global survey to capture the voice of cyber security professionals on the state of their profession, this final report of the two-part series, titled “Through the Eyes of Cyber Security Professionals: Annual Research Report (Part II),” concludes:

- The clear majority (92%) believe that an average organization is vulnerable to some type of cyber-attack or data breach.
- People and organizational issues contribute to the onslaught of security incidents.
- Most organizations are feeling the effect of the global cyber security skills shortage.
- Cyber security professionals have several suggestions to help improve the current situation.
- Sixty-two percent (62%) believe critical infrastructure is very vulnerable to cyber-attacks.
- Sixty-six percent (66%) believe government cyber security strategy tends to be incoherent and incomplete.
- Eighty-nine percent (89%) of cyber security professionals want more help from their governments.

“The results gleaned from this research are both alarming and enlightening. Alarming in the sense that if we don’t collectively pay attention to the cries for help, we will put businesses unnecessarily at risk. Enlightening in that organizations need to be willing to invest in their cyber security professionals, with clearly defined career paths and skills development in order to hire and retain qualified employees,” said Candy Alexander, Cyber Security Consultant and ISSA’s Chair of the Cyber Security Career Lifecycle. “This research data will help the ISSA and other professional groups to clearly define career paths for our profession.”

The report also lays out the “Top 5 Research Implications” as a guideline for cyber security professionals and the organizations they work for. Recommended Oltsik, “Assume your organization will experience one or several cyber-attacks or data breaches and take the cyber security skills shortage into account as part of every initiative and decision. Push for more all-inclusive cyber security training and, as importantly, get involved in educating and lobbying business executives and lobby government legislators alike.”

To download the full report please visit: [https://www.issa.org/page/issaesg\\_survey\\_P2](https://www.issa.org/page/issaesg_survey_P2) or <http://www.esg-global.com/ESG-ISSA-Research-Report>.

To download the first report please visit: <http://www.issa.org/esgsurvey/> or <http://www.esg-global.com/ESG-ISSA-Research-Report>.

### **Methodology**

With over 437 information security professionals surveyed, representing organizations of all sizes and professionals located in all parts of the world, the research titled, “The State of Cyber Security Professional Careers (Part I): An Annual Research Project (Part I)” is a cooperative research project by ESG and ISSA and the first global survey focused on the lifecycle of cyber security professional careers. Part II in the series concentrates on cyber security professionals’



opinions about their organizations' cyber security practices as well as the overall state of cyber security.

### **About Enterprise Strategy Group**

The Enterprise Strategy Group (ESG) is an IT analyst, research, validation, and strategy firm that provides actionable insight and intelligence to the global IT community. Recognized for its unique blend of capabilities—including market research, hands-on technical product testing, economic validation, and strategy consulting services—ESG is relied upon by IT professionals, technology vendors, investors, and the media to clarify the complex.

### **About the ISSA**

The Information Systems Security Association (ISSA)<sup>™</sup> is the community of choice for international cyber security professionals dedicated to advancing individual growth, managing technology risk, and protecting critical information and infrastructure. ISSA members and award winners include many of the industry's notable luminaries and represent a broad range of industries - from communications, education, healthcare, manufacturing, financial and consulting to IT - as well as federal, state and local government departments and agencies. Through regional chapter meetings, conferences, networking events and content, members tap into a wealth of shared knowledge and expertise. Visit ISSA on the web at [www.issa.org](http://www.issa.org) and follow us on Twitter at @ISSAINTL.

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Media contacts:

Leslie Kesselring, Kesselring Communications

503-358-1012

[leslie@kesscomm.com](mailto:leslie@kesscomm.com)