

Focus on Security

Xerox and the P2600 Hardcopy Device and System Security Working Group

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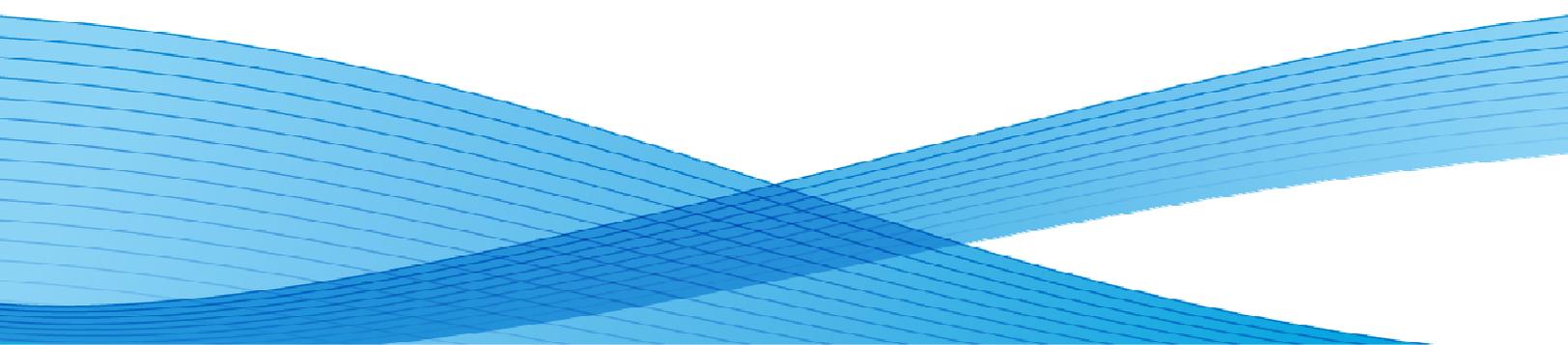
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Xerox and the P2600 Working Group

Introduction

The Institute of Electrical and Electronics Engineers created the *P2600: Hardcopy Device and System Security Working Group* in 2004 to develop security standards. The focus of the Working Group is to identify and document security issues and threats, and then provide recommendations to manufacturers on how to mitigate these security risks.

The goals of this activity are to:

- Define security requirements that include all aspects of security for manufacturers, users and others on the selection, installation, configuration and usage of hardcopy devices and systems including printers, copiers, and multifunction devices and the computer systems that support these.
- Identify security exposures of hardcopy devices and systems and instruct manufacturers and software developers on appropriate security capabilities to include in their devices and systems and instruct users on appropriate ways to use these security capabilities.

What The Working Group Provides

The aspects of hardcopy device security that are covered in the standard are:

- Authentication
- Authorization
- Physical Security
- Device Management
- Information Security
- Integrity
- Privacy
- Auditing / Monitoring
- Network Security

For each of the areas covered, the applicable threats and proposed mitigation strategies oriented towards both device manufacturers and IT professionals are documented in detail by the IEEE Std 2600™-2008 Hardcopy Device and System Security Standard (<https://www.ieee.org>). The standard also defines the general set of security features that any hardcopy device must have to comply with the standard.

The working group also created a separate IEEE Protection Profile standard for each of the four operational environments defined in IEEE Std 2600. These four Protection Profile standards provide the set of minimum security requirements that a hardcopy device such as a printer or a multi-function device must conform with in order to become Common Criteria certified in one of the four operational environments.

The P2600 Working Group completed its planned standard development activity in February 2010. Maintenance of the standards developed by the P2600 Working Group will continue under the auspices of the IEEE Standards Board.

Xerox has been involved in the support of the P2600 Working Group since it started.

Xerox and the P2600 Working Group

The Xerox Role

Xerox has been involved with the P2600 Working Group since its initial meetings in February 2004.

Xerox recognized the security focus of the standards being created by the P2600 Working Group, and therefore deemed it critical to participate in this Working Group. This is one of many standards groups to which Xerox belongs.

By participating in the P2600 Working Group, Xerox is leading the community of security practitioners and hardcopy device manufacturers as a whole to put the security issues associated with hardcopy devices in the forefront for both technical staff and customers. It is only through cooperative industry-wide efforts of this type that printers, copiers, and multi-function devices will be able to keep sensitive company and personal data secure.

Xerox has worked hard to comply with the requirements detailed by the IEEE 2600 set of standards. Conforming with the standards as they exist and staying connected to follow their evolution keeps Xerox products out in front when it comes to security issues.

What This Means To Xerox Customers

Through its participation in the P2600 Working Group and the constant monitoring of vulnerabilities through the various sources such as US-CERT, Microsoft Security Bulletins, Sun Microsystems Alerts, and Secunia, Xerox keeps pace with security issues as they happen and can alert our product delivery teams so action can be taken.

Xerox's participation in the P2600 Working Group also means that its newest printers, copiers, and multi-function devices will be designed from the beginning to have the necessary security features and security capabilities so that they fully conform to the IEEE 2600 set of standards once the devices are properly configured.

Once a product is launched, Xerox has implemented a security patch management process that makes sure devices in the field are given security patches or new software releases in a timely manner to continually ensure our devices counter the latest security threats.

Taken together, customers can be assured that the newest Xerox hardcopy devices will meet current industry standards for security and will continuously mitigate applicable threats and vulnerabilities.

When Are You Finished?

A trick question for sure. As new exploits and vulnerabilities are being found and documented almost daily, it has become a full-time job to perform the necessary analysis of the latest vulnerabilities and then prepare methods to combat or mitigate them.

Organizations such as US-CERT publish lists of vulnerabilities each week. Our Xerox CERT Response Team reviews this list as well as lists from other security bug tracking sources for any issues that might affect Xerox products.

Even though the working group has provided Protection Profiles that we use during the product design process, to answer the "When Are You Finished?" question, - we're never finished.

Detailed evaluation of your security environment will help you create solutions that secure your data and your workflows.

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