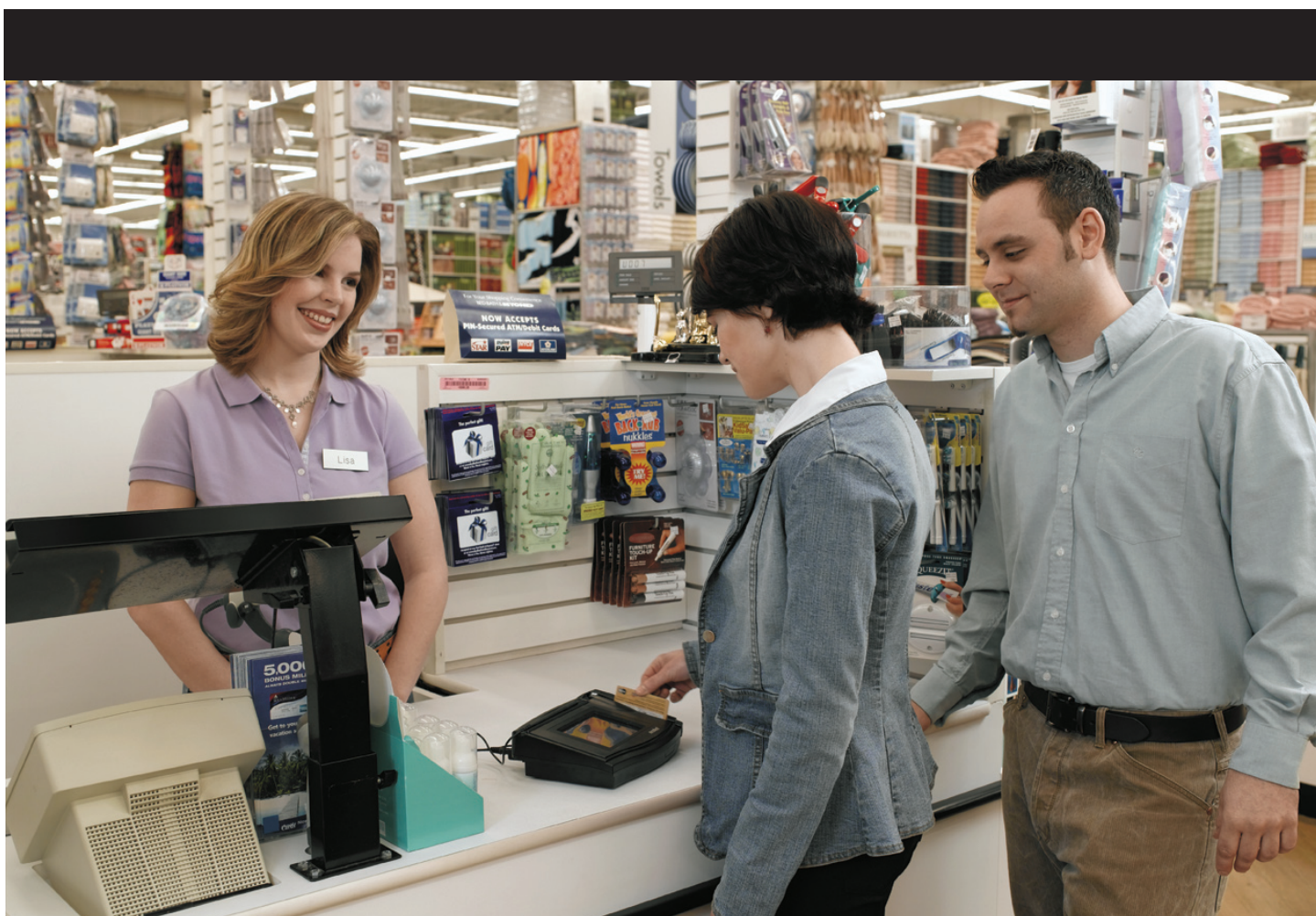


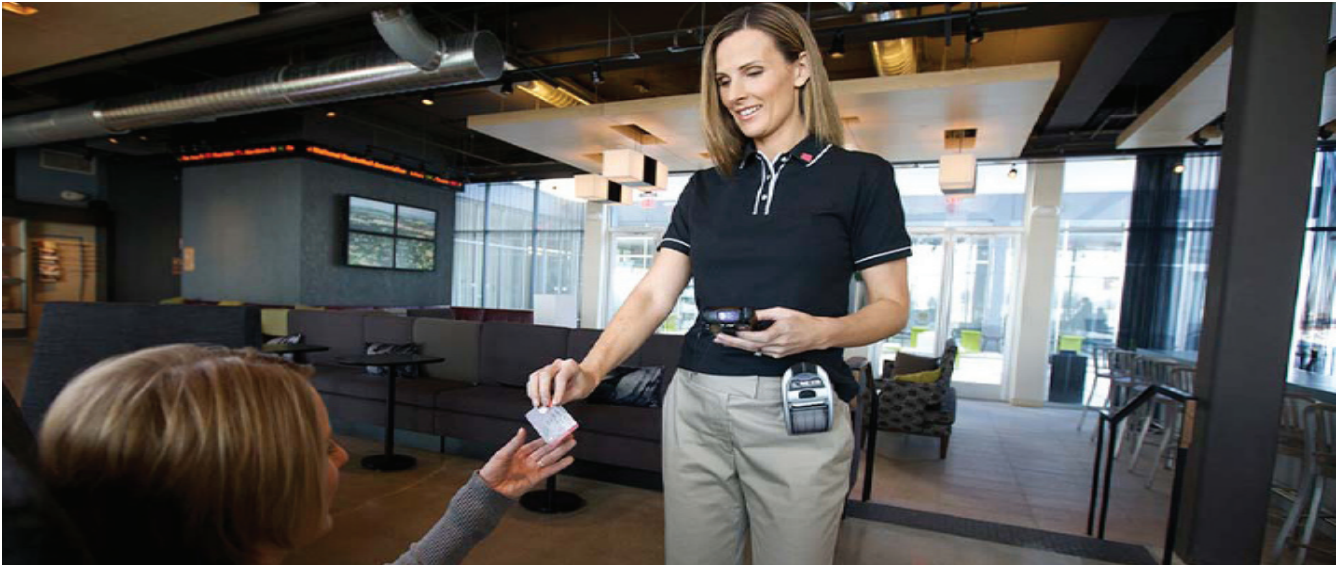


# MOTOROLA HELPS CUSTOMERS WITH PCI SOLUTIONS



Motorola Solutions can help bring together the critical pieces of your business to address network security. This guide outlines how Motorola's enterprise mobility portfolio can help you build a PCI-capable solution.

# SAFEGUARD YOUR INFRASTRUCTURE TO PROTECT CUSTOMER DATA



If you are like the many companies trying to understand how to keep customer information safe from data breaches, you are not alone. Wired and wireless technologies alike offer a lucrative opportunity for hackers to circumvent security architectures, allowing access to sensitive information that can result in brand damage, financial/regulatory liabilities and business disruption. Any business that has credit card information anywhere on their network is considering how to keep that information secure while complying with Payment Card Industry (PCI) standards.

## **BUSINESSES ARE WORRIED ABOUT COMPLIANCE AND ONGOING SECURITY - WITH GOOD REASON**

- In a 2010 data breach study conducted by Verizon Business, over 900 million records were compromised in 2009.
- The Ponemon Institute found the total cost of coping with the consequences rose to \$6.75 million per breach in its study of companies that suffered a data breach last year.
- And according to Forrester Research the cost of a data breach is \$300 per compromised record, which can easily be twenty times the cost of PCI compliance.

So all businesses, regardless of their size or the kind of network they run, are looking at how to achieve compliance while safeguarding their infrastructure for today's requirements and tomorrow's threats.

## **KEY WIRELESS REQUIREMENTS FOR PCI COMPLIANCE**

Since its inception, the PCI Security Standards Council released the global Data Security Standard (DSS), where any organization who processes, stores or transmits cardholder data must take steps to implement security best practices.

Now, with the increasing prevalence of wireless technologies, the PCI Security Council has mandated more stringent network security measures, placing strong emphasis on rogue wireless prevention and location scanning. PCI guidelines also recommend a wireless Intrusion Protection System (IPS) to automate intrusion detection for large organizations. The use of WPA2 is recommended as well as other best practices concerning wireless firewalls, wireless monitoring/logging, physical security and wireless policy enforcement. Other key highlights include:



Motorola also offers an innovative PCI Warranty, for assurance that our services will help you attain PCI compliance. When you engage Motorola for PCI Planning and Assessment Service and follow up with our PCI Network Design and PCI Network Implementation services, our PCI Warranty ensures that you will pass your next PCI audit. If you do not, Motorola will come back and rework the solution at our expense. Ask for more details since some restrictions apply.

## NETWORK SCANNING

- All locations need to be scanned for rogue wireless devices regardless of deployment
- Automating the process with a wireless IPS is recommended for large deployments
- Wired-side scanning tools are inadequate
- Rogues on the network need to be eliminated

## ENCRYPTION

- WEP must be removed from the cardholder environment
- WPA2 Enterprise with AES encryption and EAP authentication is recommended
- Wireless firewalls segmenting unnecessary wireless traffic from CDE is required

## OTHER REQUIREMENTS

- Change defaults on wireless devices and disable unnecessary protocol and services
- Log all wireless access for one year and review logs daily
- Develop and enforce wireless usage policies by actively monitoring connections
- Physically secure wireless devices to prevent tampering

## WHY MOTOROLA?

The good news is that Motorola can help bring together the critical pieces of your business to create a PCI and EMV (Europay MasterCard VISA) compliant solution, so you can mitigate the risks of security breaches and help decrease the cost of compliance. Motorola has successfully deployed security solutions for numerous retailers and businesses globally with a portfolio of enterprise mobility products that when implemented, managed, and maintained according to recommended PCI guidelines, offer a fully PCI and EMV compliant solution.

The best way to ensure compliance is to invest in technology that is PCI-capable. A Motorola Solution — including data capture devices, mobile computers and enterprise WLAN infrastructure, implemented and maintained with advanced services -- can provide the technology necessary to build a complete end-to-end PCI-capable solution.

PCI compliance is dynamic; ongoing maintenance and management must be performed to ensure continued compliance. The reference table in the inside spread provides a snapshot of the many products and services within Motorola's enterprise mobility solution portfolio that can be leveraged to help meet PCI requirements and secure your infrastructure. And at the end of the day, nothing is more important than protecting your customers.

# PCI REQUIREMENTS AND HOW MOTOROLA CAN HELP

PCI REQUIREMENTS*	ENTERPRISE MOBILITY SERVICES			
	PCI PLANNING & ASSESSMENT SERVICE	PCI POLICY & PROCEDURE DESIGN SERVICE	PCI NETWORK DESIGN SERVICE	PCI DESIGN IMPLEMENTATION SERVICE
<b>BUILD AND MAINTAIN A SECURE NETWORK</b>				
Requirement 1: Install and maintain a firewall configuration to protect cardholder data	●	●	●	●
Requirement 2: Do not use vendor-supplied defaults for system passwords and other security parameters	●	●		
<b>PROTECT CARDHOLDER DATA</b>				
Requirement 3: Protect stored cardholder data	●	●	●	●
Requirement 4: Encrypt transmission of cardholder data across open, public networks	●	●	●	●
<b>MAINTAIN A VULNERABILITY MANAGEMENT PROGRAM</b>				
Requirement 5: Use and regularly update antivirus software or programs	●	●	●	●
Requirement 6: Develop and maintain secure systems and applications	●	●		
<b>IMPLEMENT STRONG ACCESS CONTROL MEASURES</b>				
Requirement 7: Restrict access to cardholder data by business need to know	●	●	●	●
Requirement 8: Assign a unique ID to each person with computer access	●	●	●	●
Requirement 9: Restrict physical access to cardholder data	●	●		
<b>REGULARLY MONITOR AND TEST NETWORKS</b>				
Requirement 10: Track and monitor all access to network resources and cardholder data	●	●	●	●
Requirement 11: Regularly test security systems and processes	●	●	●	●
<b>MAINTAIN AN INFORMATION SECURITY POLICY</b>				
Requirement 12: Maintain a policy that addresses information security for employees and contractors	●	●		
<b>ADDITIONAL PCI DSS REQUIREMENTS FOR SHARED HOSTING PROVIDERS</b>				
Requirement A.1: Shared hosting providers must protect the cardholder data environment	●			

\*PCI DSS VER2.0 OCT 2010

Motorola Solutions can help bring together the critical pieces of your business to address network security. This table outlines how Motorola's enterprise mobility portfolio can help you build a PCI-capable solution.

	ENTERPRISE WIRELESS LAN		AIRDEFENSE SOLUTIONS	MOBILITY SERVICE PLATFORM	MOBILE COMPUTING DEVICES	ADVANCED DATA CAPTURE
PCI SECURITY MONITORING SERVICE	ACCESS POINTS	WIRELESS LAN SWITCHES			ENTERPRISE CLASS & INDUSTRIAL CLASS	GENERAL PURPOSE, RUGGED & MICROKIOSK
	•	•		•	•	•
	•	•	•	•	•	•
	•	•			1	1
			•		1	1
				•	•	•
				•	1	1
					2	2
					•	•
					•	•
					•	•
					2	2
	•		•		•	•
•	•		•		•	•
			•	•		

Footnote 1: Motorola devices are capable of meeting this requirement when operating in a PCI compliant system. Footnote 2: End customer driven.

# A TOTAL PCI SECURITY SOLUTION FROM MOTOROLA



## **ENTERPRISE MOBILITY SERVICES PCI PLANNING AND ASSESSMENT**

Motorola helps you prepare for PCI compliance audits by identifying the systems and resources that must be PCI compliant and determine where gaps exist.

## **PCI POLICY AND PROCEDURE DESIGN**

Motorola helps establish practical security policies in the Technology, Management, and Operations areas across all 12 domains of the PCI DSS that work in your business environment.

## **PCI NETWORK DESIGN**

PCI Network Design addresses security gaps associated with your network infrastructure to help create a Cardholder Data Environment (CDE) that is compliant with PCI DSS requirements.

## **PCI DESIGN IMPLEMENTATION**

The PCI Design Implementation service provides turn-key delivery of the PCI Network Design, including:

- Project Planning for equipment installation and turn-up
- Staging of equipment
- Installation of equipment
- Acceptance Testing

## **PCI SECURITY MONITORING**

Motorola's Security Operations Center (SOC) provides around-the-clock real-time monitoring of the wired and wireless PCI CDE.

[www.motorolasolutions.com/business](http://www.motorolasolutions.com/business); click Services for Enterprises under Services

## **ENTERPRISE WLAN**

Motorola's Enterprise Wireless LAN & Security solutions are designed to provide out-of-the-box PCI compliance, robust wireless security and cost-effective compliance validation. Motorola's portfolio of wireless LAN infrastructure is built on an integrated upgradeable platform, allowing organizations to cost-efficiently extend wireless networking from headquarters to other locations. The RFS4000 Wireless Switch offers a network-in-a-box solution for small enterprises and remote sites, including an integrated router, gateway, firewall, and Power-over-Ethernet (PoE). The RFS7000 provides robust, highly scalable support for enterprise mobility, offering enhanced roaming, security, quality of service and management features. All Motorola APs are designed for enterprise class wireless security supporting IEEE 802.11i (WPA and WPA2 certified) and 3DES IPsec encryption, and all APs can be deployed as an AirDefense sensor.

[www.motorolasolutions.com/business](http://www.motorolasolutions.com/business); click Wireless LAN under Products

## **AIRDEFENSE SOLUTIONS – WIRELESS LAN SECURITY & HOLISTIC NETWORK MANAGEMENT**

AirDefense Solutions offer a unique set of tools for vendor agnostic PCI compliance reporting, 24/7 monitoring, simplified management of multi-vendor network deployments, and remote troubleshooting for wireless networks. The AirDefense Services Platform is the industry's first comprehensive service oriented platform that can be leveraged by enterprise IT staff to dramatically reduce the TCO and achieve quicker ROI from their WLAN.

## **PCI SECURITY & COMPLIANCE SOLUTIONS**

Includes tools that help protect organizations from costly security breaches and help prevent lost revenue and productivity from network downtime. By identifying vulnerabilities and monitoring the airwaves for intruders, Motorola provides various benefits to retailers, including:

- Providing the most cost-effective mechanism to comply with PCI DSS version 2.0 wireless requirements.
- Enforcing usage policies, such as mandatory encryption, to ensure that all traffic, including credit card information and proprietary internal communication, is fully protected.

- Detecting and disconnecting intruders who attempt to access an enterprise WLAN to steal customer information or corrupt management files.
- Recognizing impending threats from network interference, unknown stations scanning the network and the use of hacking reconnaissance tools.

[www.motorolasolutions.com/business](http://www.motorolasolutions.com/business); click Wireless LAN/Wireless LAN Management & Security under Products

## MOBILITY SERVICES PLATFORM

Motorola's Mobility Services Platform (MSP) is a management system that allows central control to be imposed over mobile devices that are deployed throughout an enterprise. MSP can provide an invaluable tool in helping to achieve PCI compliance. Depending on the nature of your enterprise network(s) and the applications in which you have mobile devices engaged, you may well have mobile devices that are considered in scope and subject to PCI guidelines. When this is the case, achieving PCI compliance will almost certainly require you to demonstrate that your mobile devices meet the PCI guidelines. Your overall plan for PCI compliance will need to include specific definitions of what configurations will be applied to mobile devices and what management activities will be performed on them on an ongoing basis. MSP provides a powerful tool for executing those portions of your PCI compliance plan that relate to mobile devices and to collect evidence to demonstrate that your plan is being followed.

[www.motorolasolutions.com/business](http://www.motorolasolutions.com/business); click Mobility Software under Products/Software and Applications

## MOBILE COMPUTING DEVICES

When it comes to selecting handheld computers that will securely mobilize your enterprise applications, there is a Motorola mobile computer designed to meet your needs. Motorola mobile computers keep the world's largest retailers up and running every day, regardless of requirements, application or environment. Motorola has a line of PCI-certified, and international EMV-certified, payment devices which form an end-to-end PCI compliant solution, when used with new or existing Motorola mobile computers, a PCI-certified payment solution, and when operating within a PCI-compliant system. The PCI-compliant system can be realized by using an infrastructure designed with the Motorola Services, WLAN products and the AirDefense Services Platform.

[www.motorolasolutions.com/business](http://www.motorolasolutions.com/business)  
click Mobile Computers under Products

## ADVANCED DATA CAPTURE DEVICES

Motorola provides the industry's most robust and innovative line of Symbol scanner products — from front-end POS scanners to next-generation industrial scanners, combining best-in-class performance — and outstanding customer productivity — Motorola is the scanner leader. Available for a wide variety of data capture applications, Motorola's Symbol scanners are capable of meeting PCI requirements when used with a PCI-certified payment solution, and when operating within a PCI compliant system, such as an infrastructure designed with the Motorola Services, WLAN products and AirDefense Services Platform.

[www.motorolasolutions.com/business](http://www.motorolasolutions.com/business); click Bar Code Scanning under Products

## SUMMARY

Motorola has over 30 years of experience in providing our customers security solutions and enterprise mobility products that work together to create a flexible PCI solution. We have the team and industry expertise to talk to you about PCI and are here to help you strategize and tackle your security issues. Motorola currently participates on the PCI Security Standards Council — the administrative body that decides how to implement future iterations of security standards. With this in mind, find out how Motorola can help you on the road to securing credit card data and creating an overall security strategy that will meet PCI Standards today and beyond.

Call us at 1.866.416.8545 or visit [www.motorolasolutions.com](http://www.motorolasolutions.com). For more information on PCI Security Standards, visit <https://www.pcisecuritystandards.org>

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