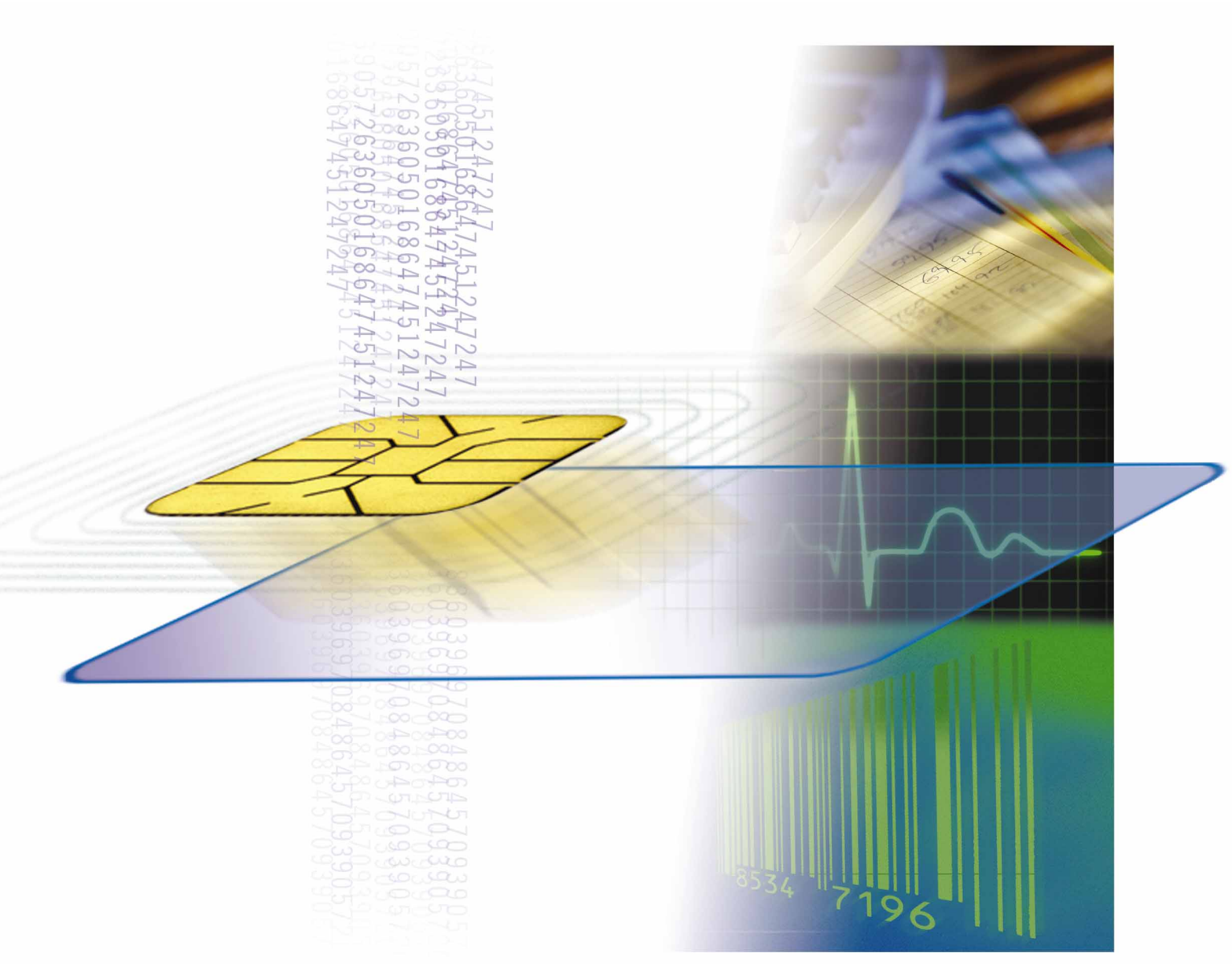


---

# Datacard® Aptura™ Operating System



# A stable and controllable platform for Java Card™ applets

The Datacard® Aptura™ Operating System brings stability, control and flexibility to your card program.

Until now, many card issuers viewed the implementation of smart card programs as complicated.

The Aptura™ solution simplifies implementation and gives you more control over the procurement process. By choosing the Aptura operating system, you can personally select and manage the individual parties who will produce your final card, therefore helping you to minimize supply risks and costs.

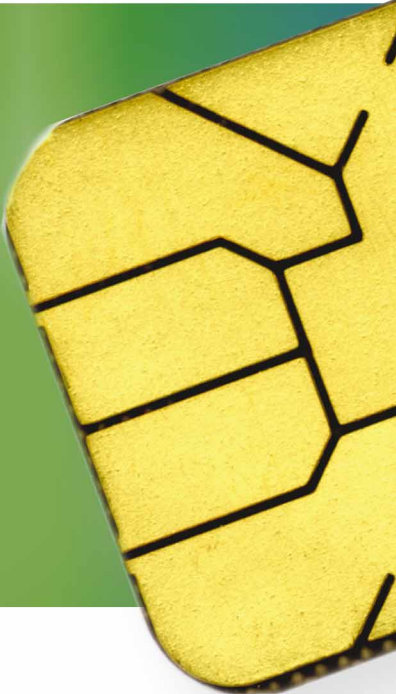
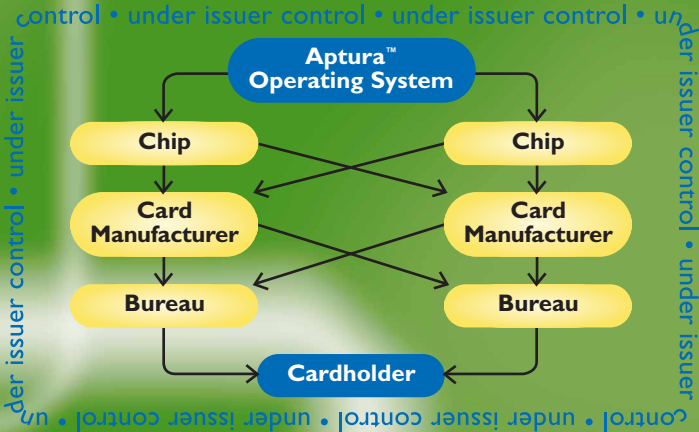
The Aptura operating system is a robust implementation of Java Card™. It comes pre-installed on a chip and ready to drop into card plastic. Through use of globally recognized standards, it provides a highly stable applet platform, and it supports post issuance management of applets through the use of a card life cycle management system, such as the Datacard® Affina™ Platform Management Architecture.

For powerful, customized development, the Aptura™ Applet Development Kit (ADK) offers all the tools required to develop, run and test a Java Card™/GlobalPlatform™ applet on an Aptura™ Development Card. The ADK allows developers to take full advantage of the Development Card features such as Java source level on-card debugging.

The Aptura operating system also offers the long-term flexibility you need to attract and retain cardholders. A flexible framework makes it easy to add or update applets after cards have been issued, so you can offer your cardholders fresh, new products and respond quickly to their wants and needs.

The Aptura operating system also gives you superior risk control by allowing you to securely upgrade low-level software post-issuance without conducting a costly card recall. This helps you to provide consistent, high-quality services with minimal interruptions.

## Open Procurement Model



### **Protect your brand and your reputation**

To minimize disruptions in cardholder services, the Aptura operating system allows you to upgrade smart card software after cards have been issued. In particular, the Aptura operating system is able to support the cryptographically secure update of GlobalPlatform, Java Card and low-level software that is permanently fixed in the chip and normally beyond control in a post-issuance environment. In addition to protecting cardholder service values, this capability can help dramatically reduce program costs.

### **Strong procurement advantages**

The design and implementation of the Aptura operating system allows you to purchase card components on your terms. You gain management control of the procurement processes. You can negotiate price and delivery schedules individually for integrated circuits, plastic cards, applications and personalization. This gives you the ability to choose suppliers based on cost, quality and ability to deliver on time. It also gives you control over supply risks.

### **From the world leader in smart card security**

The design of the Aptura operating system, which complies with EAL4+ practices, is founded on rigorous physical chip analysis. This allows us to create robust algorithms and provide you with a highly secure operating environment. You can issue multi-application smart cards with the knowledge that your business and your cardholders' data are founded on a strong defense against fraud and theft.

### **Part of a fully integrated smart card infrastructure**

Datacard provides smart card solutions that offer complete, end-to-end infrastructure for creating, issuing and managing multi-application smart cards. When you choose Datacard for implementing, designing and maintaining your card operations, you only have to work with one solutions provider. You also eliminate integration issues and confusion between suppliers. The Aptura operating system is a critical element of this broad infrastructure, which is being rapidly adopted by many leading smart card issuers.



#### **Aptura Operating System Interoperability**

- ◆ Conforms to global and industry standards
- ◆ GlobalPlatform compliant

#### **Management and Control Benefits**

- ◆ Open procurement of card components
- ◆ Effective supply risk management
- ◆ Control over card and services procurement costs

## **The world's best-selling brand for more than 30 years**

Trust is a critical concept in any smart card program. For a program to be successful, there must be a tremendous bond of trust between the card issuer and the cardholder. That is why card issuers in a variety of markets choose Datacard. Financial institutions, consumer marketers, corporations, government agencies, transit companies, schools and telecommunications providers know they can trust their valuable customer relationships to the Datacard brand. We have been delivering reliable, high-quality solutions for more than three decades. The Aptura operating system continues that world-famous heritage.

### **For more information**

To learn more about Datacard and our complete portfolio of smart card solutions, please contact the Datacard office in your region or visit us at [www.datacard.com](http://www.datacard.com).

# **Datacard**Group

Datacard is a registered trademark and service mark of DataCard Corporation. Aptura and Affina are trademarks of DataCard Corporation. Java Card is a trademark of Sun Microsystems, Inc.

© 2002 DataCard Corporation. All rights reserved.

Names and logos on sample cards and card carriers are fictitious. Any similarity to actual names, trademarks or tradenames is coincidental.

Information subject to change without notice.

Printed in U.S.A.

2FL-9001

## **The Americas**

Datacard Group  
Phone: +1 952 933 1223  
Fax: +1 952 931 0418

Datacard Canada  
Phone: +1 905 812 5701  
Fax: +1 905 812 8334

## **Europe – Subsidiaries**

Datacard S.A. (France)  
Phone: +33 (0) 1 48 97 23 23  
Fax: +33 (0) 1 43 63 37 11

Datacard Deutschland GmbH (Germany)  
Phone: +49 (0) 211 5952 0  
Fax: +49 (0) 211 5952 180

Datacard Iberica, S.L. (Spain)  
Phone: +34 91 657 25 99  
Fax: +34 91 662 37 17

Datacard Limited (UK)  
Phone: +44 (0) 1489 555 600  
Fax: +44 (0) 1489 555 601

## **Europe/Middle East/India/Africa**

Datacard Distributor Operations  
Phone: +44 (0) 1489 555 600  
Fax: +44 (0) 1489 555 602

## **Asia/Pacific**

Datacard Asia Pacific Limited (Hong Kong)  
Phone: +852 2866 2613  
Fax: +852 2865 2801

Datacard Japan Limited  
Phone: +81 3 3494 6111  
Fax: +81 3 3494 6140