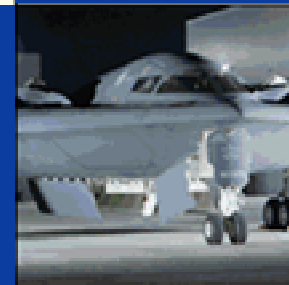
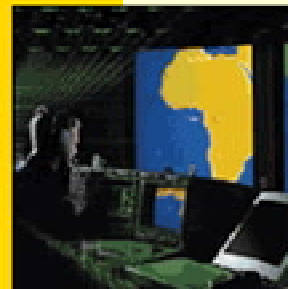


Smart Card Integration into Physical Access Control Systems

Presented by: Dwayne M. Pfeiffer
Northrop Grumman Information Technology
July 16, 2003



- **Summary**
 - What is a Physical Access Control System?
 - Why Integrate Smart Cards into Physical Access Control Systems?
 - Physical Access Control System Security Considerations
 - Smart Card Technology Choices
 - Biometrics, PINs, and Smart Cards
 - Key Questions to be Considered in Planning the Integration of Smart Card Technology
 - Example Integration Scenarios
 - Conclusion

- **What is a Physical Access Control System?**
 - A physical access control system is a coordinated network of identification tokens (magnetic stripe cards, proximity cards, key fobs, smart cards, etc.), electronic door readers, control panels, specialized databases, software and computers designed to monitor and control traffic through access control points.

- **Why Integrate Smart Cards into Physical Access Control Systems?**
 - Improve security
 - Add PIN and/or biometrics
 - Implement more efficient identification processes
 - Reduce the number of ID cards carried
 - Add new applications

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.