



eTrust<sup>™</sup>

MANAGING eBUSINESS SECURITY



Computer Associates<sup>™</sup>



## eTrust™ — THE POWER TO SECURE

Security remains one of the most pressing IT concerns today. Most organizations are struggling to protect more resources, allow for additional users, and manage an escalating amount of malevolent threats and malicious attacks while concurrently trying to handle the exponential increase in security-related events. Organizations continue to add to their information assets, opening them up to a diversity of users — from employees and customers to thieves and hackers. An innovative, comprehensive approach to security that protects all information assets and resources, gets users online faster, centrally manages security-related administration, and coordinates emergency command and control is now needed to help organizations attain a higher return on their security investments.

Computer Associates International, Inc. (CA) understands that today's organizations need to be in complete command of their enterprise security. CA's eTrust™ solutions take a holistic approach to all aspects of business security — whatever the business model or organizational structure — enabling an enterprise to quickly and effectively embrace new opportunities, improve operational efficiencies, reduce costs and proactively manage all security threats to the organization's physical access and IT digital security. Backed by a company with more than 26 years experience in enterprise security, CA's eTrust solutions help deliver a greater return on investment and raise business security to previously unattainable levels.

### A New Standard in Security

CA's eTrust solutions are grouped into three solution areas — eTrust™ Identity Management, eTrust™ Access Management and eTrust™ Threat Management, all with consistent visualization and management through eTrust™ Security Command Center — to help organizations take control of security. These solutions holistically address all aspects of an organiza-

tion's physical access and IT digital security, are seamlessly integrated and can operate with an organization's existing security investments, helping to cut costs and enhance security.

#### Identity Management

- Reduce Administrative Overhead
- Improve User Productivity
- Automate Business Process

eTrust Identity Management allows organizations to centrally coordinate the creation of user identities, work-

flows and approval processes together with user-based resource provisioning. This unique solution set also incorporates secure user access, single sign-on from anywhere and self-service administration across the entire life cycle of the user — increasing user productivity while minimizing the cost and burden associated with user administration.





### Access Management

- Ensure Business Application Availability
- Deliver Cost Savings
- Enable Regulatory Compliance

eTrust Access Management secures business-critical assets by strengthening security end to end, regardless of

operating system, platform, business application and whether resources are web-based. Centralized management, coupled with consistent policy application, helps reduce costs. These solutions offer the strongest possible protection through active dynamic security — preventing both internal breaches and external security attacks.

### Threat Management

- Isolate, Contain and Extinguish Threats
- Avoid Downtime and Lost Productivity
- Deliver Fast Response Through Centralized Management

eTrust Threat Management addresses today's security concerns through unique preventive and rapid-response

approaches. These solutions incorporate technologies such as Virus Block, which can simply prevent viruses, worms and malicious content from infiltrating and infecting email and business applications. CA is also the first company to offer Threat ICE, which Isolates, Contains and Extinguishes all enterprise threats.

### Security Command Center

- Improve Administrator Efficiencies and Reduce Costs
- Increase Responsiveness to Attacks
- Protect Security Investments

eTrust Security Command Center collects business resource information and stores it in a single

resource catalog. Then, using advanced visualization, reporting and powerful auditing, the eTrust Security Command Center provides holistic portal-based views of security across the enterprise. With its innovative event correlation, the eTrust Security Command Center automatically detects and responds to any security-related event that could compromise the business — putting organizations firmly in control of security.

### eTrust Identity Management — Managing the “Who’s Who”

Managing users is a major operational security challenge. IT security departments must quickly get internal users online and productive while finding new ways to control access to corporate resources, based on the business identity of external users and partners. Today's IT complexities have increased this challenge, with a single user requiring access to a multitude of platforms, systems and applications. Organizations must be able to manage spiraling costs associated with delays in getting external customers and partners timely access to business systems. They also must be able to manage increased security risks associated with the escalating volume of user administration.

CA's eTrust Identity Management is the most complete identity management solution set available today. It centralizes and automates the creation of user accounts and approval workflows, holistically provisioning both IT and non-IT resources while reducing costs through process automation. It also increases user productivity through integrated single sign-on and



personalized portal self-service, including password resets. Supported by strong authentication and an identity repository that scales to current and future business needs, CA's eTrust Identity Management manages every aspect of the business identity. From the day an employee begins work, a partner signs up or a customer accesses the systems, eTrust Identity Management begins tracking and managing the relationship. As identities change, eTrust Identity Management automates the required changes to system access and initiates all workflow and approval processes.



The eTrust Identity Management solution set includes:

**eTrust™ Admin.** Provides centralized, fully automated management of all users. This cost-effective solution manages the creation of user accounts, workflows and the provisioning of resources across the enterprise. Using open interfaces, eTrust Admin interacts with existing business processes, HR and personnel systems. Additionally, this solution delivers delegated control, web-based administration and self-service capabilities to improve user productivity and lower user administration costs.

**eTrust™ Directory.** Delivers the most robust, scalable repository for managing identities and authentication methods. Managing millions of users with near real-time look-up capabilities,

working stand-alone or consolidating user information from other sources (such as NetWare, Lotus Notes or Active Directory), eTrust Directory provides the perfect foundation for eTrust Identity Management.

**eTrust™ OCSPPro.** Provides real-time certificate validation, centralized customer management, maintained privacy and a detailed audit trail of all status transactions. eTrust OCSPPro delivers policy-based processing, and distributed and load-balanced throughput management. Additionally, it provides seamless integration with LDAP and X.500 directory services, as well as related Public Key Infrastructure (PKI) elements.

**eTrust™ PKI.** Offers a reliable mechanism for transacting business across the Internet. It delivers rapid integration with enterprise systems and provides administrative capabilities that are critical to effective implementation. eTrust PKI is specifically designed to provide the strongest authentication available to eTrust Single Sign-On. It works seamlessly with industry-leading authentication solutions, including smart cards, biometric devices and tokens. In addition, eTrust PKI is bundled with an OCSP responder, enabling real-time certificate validation.

**eTrust™ Single Sign-On.** Automates secure access to browser-, client/server- and legacy-based applications by providing a single sign-on. This powerful solution eliminates one of the biggest security headaches and cost concerns in IT security today — maintaining multiple IDs and passwords. eTrust Single Sign-On decreases the workload on help desk staff while enhancing employee satisfaction and productivity.

## eTrust Access Management — Securing the Extended Enterprise

Managing user access to today's myriad of business resources is complicated. Employees, business partners and customers require secure access to business-critical applications spanning disparate platforms and operating systems. Many distributed operating systems give administrators access to all information, which means the privacy of data such as patient information or sensitive business plans can be breached. Managing access means controlling the access to any type of resource for authenticated users, along with ensuring that a consistently strong security policy is applied across all resources. Without this, security is only as good as its weakest point.

CA's eTrust Access Management solution secures business-critical assets by centralizing and strengthening security end to end, regardless of operating system, platform or business application, and whether or not resources are web-based. Centralized management, coupled with productivity-enhancing personalization and the consistent application of policy, ensures that costs are reduced. This solution set offers the strongest possible protection through active dynamic security — preventing both internal breaches and external security attacks while holistically monitoring access violations across both IT and physical access devices.



The eTrust Access Management solution set includes:

**eTrust™ Access Control.** Enables organizations to deliver a consistently strong access policy across distributed platforms and operating systems. This solution strengthens security by addressing system vulnerabilities, enforces security policy across the enterprise, and lowers administration costs through ease-of-use and automated event management.

**eTrust™ Web Access Control.** Protects an organization's online investments and critical Web Services by regulating who can access what web resources and services with flexible authentication methods and fine-grained authorization. With delegated administration, web single sign-on and highly integrated security technologies, eTrust Web Access Control secures all web resources with ease of deployment and reduced maintenance requirements.

**eTrust™ CA-ACF2® Security and eTrust™ CA-Top Secret® Security.** Ensure the integrity and security of critical mainframe assets. These solutions fully support and exploit features such as UNIX System Services, digital certificates, SSL and LDAP. Built-in comprehensive administrative and reporting tools, along with detailed event-logging capabilities, simplify the management of users and their access rights.

**eTrust™ Firewall.** Enforces security policies throughout the enterprise, safeguarding all mission-critical network resources. eTrust Firewall goes beyond boundary protection, extending internally to secure vital network segments while protecting the perimeter of the enterprise inside and out.



**eTrust™ VPN.** Delivers a critical component of eTrust Access Management — secure Internet communications. This comprehensive solution secures Virtual Private Network (VPN) uses, including access by remote users, “safe-zones” within an intranet and site-to-site communications over the Internet.

### **eTrust Threat Management — Managing the Worst Aspect of Technology**

Today's organizations want to exploit the power of the Internet and improve communication channels without exposing themselves to attacks and threats. New sophisticated viruses are released into the wild every day — ready to wreak havoc on business operations. Left undetected, virus attacks can destroy information assets, reduce productivity and damage business reputation by infecting the assets of partners and customers. Even with the best antivirus technology, malicious viruses continue to plague today's businesses. It may have taken an organization years to build brand reputation, excellent customer service and the best employee productivity — but it can all be jeopardized in a matter of seconds.



CA's eTrust Threat Management solutions effectively and cost-efficiently detect, analyze, warn, prevent and cure attacks from all sources, holistically working across IT environments. Since organizations need to know what the threat is before they can respond to it, CA solutions first detect and automatically isolate attacks throughout the network — backed by CA's global security research team. Next, businesses can contain all threats. For example, the eTrust™ Antivirus Virus Block technology helps stop viruses dead in their tracks by universally preventing malicious content and virus attachments from infiltrating business systems. The unique Watch and Patrol technology of eTrust™ Intrusion Detection can proactively prevent network threats and policy violations. Finally, CA's solutions extinguish threats, allowing uninterrupted business operations. With CA's eTrust Threat Management solutions, organizations can adapt their security defenses to any new situations — reducing security management costs.

The eTrust Threat Management solution set includes:

**eTrust Antivirus.** Provides real-time enterprise protection against today's most serious threats — viruses. This powerful solution combines state-of-the-art detection with accelerated deployment of virus cures and signature updates. It secures business communication by protecting critical mail servers and IT infrastructure, from servers and desktops to wireless devices.

**eTrust™ Content Inspection.** Protects against malicious mobile code infiltrating the enterprise, focusing on messaging services and network gateways. When eTrust Content Inspection is used with eTrust Antivirus, the combined solution provides centrally managed, effective virus protection throughout an enterprise.

**eTrust Intrusion Detection.** Combines surveillance and alert capabilities that help stop attacks and abuses. This powerful solution takes the “detect, alert, prevent” approach to safeguarding both wired and wireless networks — providing real-time, non-intrusive, policy-based alerts and automatic prevention.

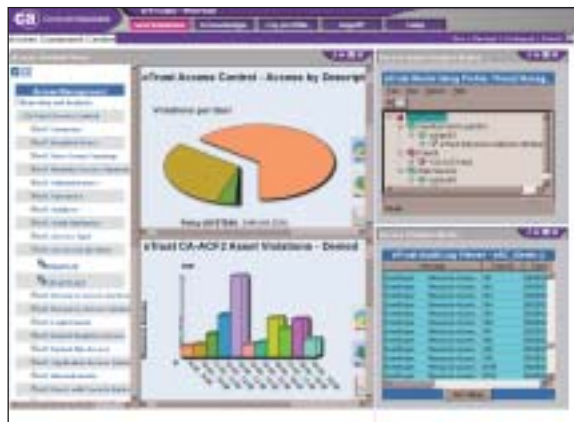
**eTrust™ Policy Compliance.** Enables organizations to prepare against unauthorized usage and attacks by identifying weak points in security implementations. This solution automatically generates appropriate corrections and continuously monitors the network of systems.

### **eTrust Security Command Center — Putting the Enterprise in “Command” of Security**

Many security systems today collect data on security-related resources and issue alerts. Each system collects this information in a different way and in different formats, stores it in a different place, and reports it to a different location. It's then left to the overburdened administrator to make sense out of a mountain of security data. This fragmented approach to security leads to a duplication of efforts, high overhead, or weak security models and failed audits.

CA advocates being in command of business security, not being controlled by it. For this reason, CA developed the eTrust Security Command Center, an innovative solution that transforms security information into business security intelligence. Its centralized command and control capability improves administrator efficiencies and helps reduce costs while integration and automation improve effectiveness and enhance security. The eTrust Security Command Center collects data on all related security events, holistically working across both IT and physical environments. This information is processed and assessed against business

resources stored in a centralized catalog. Using advanced event-correlation capabilities, security events can be captured and analyzed and a response is automatically initiated. Through intuitive visualization, security administrators can view, monitor and manage any aspect of security within their tightly controlled scope — including identity, threats and access.



The eTrust Security Command Center includes:

**Advanced Portal Technology.** Delivers a portal-based view of security, allowing consistent visualization and control of security. The eTrust Security Command Center supports multiple business views to enable monitoring and control within a defined administrative scope. In addition, it enables control of a security infrastructure's operational status across the enterprise.

**eTrust™ Audit.** Collects enterprise security information and consolidates events from a variety of platforms, including UNIX, Windows 2000, other CA eTrust solutions (including eTrust Identity Management and eTrust Access Management), and a range of third-party security products. This information is stored in a central database for impact correlation and threat assessment against business assets and information resources.



**eTrust™ 20/20.** Provides a uniquely powerful solution that visualizes security activities across physical IT environments — showing every individual's access to physical facilities and information systems. This gives organizations a new level of insight into workplaces regardless of complexity and geographic dispersion.

### About Computer Associates

Computer Associates International, Inc. (NYSE: CA) develops and delivers software that manages the computing infrastructures of businesses worldwide. More than 99% of the Fortune 500® rely on CA software for their infrastructure needs. CA's broad range of mission-critical software solutions address all aspects of eBusiness management through industry-leading brands: Unicenter® for enterprise management, eTrust™ for security, BrightStor™ for storage, CleverPath™ for portal and business intelligence, AllFusion™ for application life cycle management, Advantage™ for data management and application development, and Jasmine® for object database. These solutions are built for a common software infrastructure, can be used in a variety of mainframe and distributed environments, are integrated in a variety of IT environments, are platform-neutral, and are designed to help companies meet the next generation of computing challenges. Regardless of the hardware or software that a business uses, CA's solutions are designed for seamless integration. Further, CA pioneered flexible software licensing to help companies pace their technology investments with the growth of their businesses. In addition, CA has earned more than 200 patents worldwide, has more than 800 patent applications pending, and was the first and only global enterprise software company to meet the exacting standards of ISO 9002 quality certification.

### Unicenter®: Managing eBusiness Infrastructure

Unicenter integrated management solutions ensure the health and performance of all aspects of the eBusiness infrastructure. These scalable, modular solutions leverage a flexible architecture, innovative intelligence and visualization — enabling superior, high-impact business enablement.

### eTrust™ Services — Ready-to-Deploy Trusted eBusiness

CA Services<sup>SM</sup> is focused on enabling customers' eBusiness success. By leveraging CA's value-added professional expertise and advanced tools and methodologies, enterprises will fully realize the power of end-to-end security through:

- Complete security services, including vulnerability, risk assessment and product implementation.
- Security implementations that incorporate eTrust Identity Management, eTrust Access Management, eTrust Threat Management and eTrust Security Command Center solutions.
- Integration of eTrust solutions into a customer's infrastructure, including architecture, design, installation, configuration and customization.
- The eTrust Services team is comprised of highly skilled and CA-trained eTrust architects, consultants and project managers. Using Best Practices and proprietary methodologies, they are backed by the product support and eTrust development engineers who built the products and have extensive industry expertise to easily integrate them with third-party security technologies.

## **BrightStor™: Managing eBusiness Storage**

BrightStor provides industry-leading, end-to-end storage management solutions that help protect and manage data — for business continuity — across all major platforms and storage architectures. The BrightStor brand represents today's most scalable, advanced and easy-to-use storage management technologies.

## **CleverPath™: Managing eBusiness Intelligence**

CleverPath is CA's industry-leading brand of portal and business intelligence solutions for both internal and external constituents. CleverPath solutions deliver the right information to the right people at the right time — all in a personalized way.

## **AllFusion™: Managing eBusiness Development**

AllFusion offers comprehensive solutions that can help any organization model, develop and deploy applications enterprise-wide. Integrated with CA's own Best Practices, these solutions can help any organization respond quickly and remain competitive in a rapidly evolving marketplace.

## **Advantage™: Managing eBusiness Information**

Advantage delivers leading application development, enterprise reporting and industrial-strength databases. These integrated and open-standards-based solutions include the services necessary to rapidly integrate applications, databases and business partner systems across multiple platforms.

## **Jasmine®: Managing eBusiness Objects**

Jasmine provides an object database for efficient storage and management of complex content such as XML documents and multimedia, business application objects and the complex interrelationships between them.

## **CA Services<sup>SM</sup> and CA Education: Maximizing the Value of CA Technology**

CA also offers an extensive range of services and education to help an organization get the most of its investment in CA technology. For more information, visit [ca.com/services](http://ca.com/services) or [ca.com/education](http://ca.com/education).



eTRUST SOLUTION SET	eTRUST PRODUCT	eTRUST SOLUTIONS DESCRIPTIONS
Identity Management	eTrust Admin	Provides simplified, cost-efficient management of all identities and resources across enterprise security systems and directories.
	eTrust Single Sign-On	Automates secure user access to enterprise applications and systems.
	eTrust Directory	Delivers a highly scalable repository for large-scale, business-critical, directory service applications.
	eTrust OCSPPro	Provides a scalable and distributed Online Certificate Status Protocol Responder implementation.
	eTrust PKI	Offers a reliable trusted mechanism for business transactions.
Threat Management	eTrust Antivirus	Provides real-time, enterprise-wide protection against today's most serious security viruses.
	eTrust Content Inspection	Isolates malicious code activity and provides real-time attack intervention, including automatic detection, blocking and notification of all types of malicious code.
	eTrust Intrusion Detection	Helps stop attacks and abuses through combined surveillance and alert capabilities.
	eTrust Policy Compliance	Enables organizations to prepare against unauthorized usage or attacks by identifying potential weak points in an organization's security policies.

eTRUST SOLUTION SET	eTRUST PRODUCT	eTRUST SOLUTIONS DESCRIPTIONS
Access Management	eTrust Access Control	Provides an essential business element that regulates access to critical business assets.
	eTrust Web Access Control	Enhances overall business security by combining strong authentication and authorization methods.
	eTrust CA-ACF2 Security	Enables mainframe reliability, scalability and cost-effectiveness by providing leading-edge security for the z/OS, OS/390 and VM business transaction environments, including UNIX System Services.
	eTrust CA-Top Secret Security	Enables mainframe reliability, scalability and cost-effectiveness by providing leading-edge security for the z/OS, OS/390 and VM and VSE business transaction environments, including UNIX System Services.
	eTrust Firewall	Uniformly enforces security policies throughout the enterprise, safeguarding all mission-critical network resources.
	eTrust VPN	Transparently secures all application traffic, centrally manages all servers and provides detailed audit logs for comprehensive analysis.
Security Command Center	eTrust 20/20	Visualizes all security activities, showing every individual's access to physical facilities and information systems.
	eTrust Audit	Collects enterprise-wide security and systems audit information using a scalable, multi-tier collection architecture.
	eTrust Security Command Center	Delivers portal-based security management, enabling holistic visualization and control of security across the enterprise.

For more information, call 1-800-875-9659 or visit [ca.com](http://ca.com)



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