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----BEGIN PRIVACY-ENHANCED MESSAGE-----Proc-Type: 2001, MIC-CLEAR Originator-Name: webmaster@www.sec.gov Originator-Key-Asymmetric: MFgwCgYEVQgBAQICAf8DSgAwRwJAW2sNKK9AVtBzYZmr6aGjlWyK3XmZv3dTINen TWSM7vrzLADbmYQaionwg5sDW3P6oaM5D3tdezXMm7z1T+B+twIDAQAB MIC-Info: RSA-MD5,RSA, F1eAFD9mOhhtg/q6P2UwBuqF+znDMGN+xbdrYMOQPQlqharHEcQnt1kZKSp9KfbU gdlLZc1gIN0NmDhAORTjwQ== <SEC-DOCUMENT>0000930661-00-000529.txt : 20000314 <SEC-HEADER>0000930661-00-000529.hdr.sgml : 20000314 ACCESSION NUMBER: 0000930661-00-000529 CONFORMED SUBMISSION TYPE: 10-K405 PUBLIC DOCUMENT COUNT: 4 CONFORMED PERIOD OF REPORT: 19991231 FILED AS OF DATE: 20000313 FILER: COMPANY DATA: COMPANY CONFORMED NAME: ENTRUST TECHNOLOGIES INC CENTRAL INDEX KEY: 0001031283 STANDARD INDUSTRIAL CLASSIFICATION: SERVICES-COMPUTER PROGRAMMING SERVICES [7371] **IRS NUMBER:** 621670648 FISCAL YEAR END: 1231 FILING VALUES: FORM TYPE: 10-K405 SEC ACT: SEC FILE NUMBER: 000-24733 FILM NUMBER: 568013 **BUSINESS ADDRESS:** 4975 PRESTON PARK BLVD STREET 1: STREET 2: STE 400 CITY: PLANO STATE: ТΧ ZIP: 75093 BUSINESS PHONE: 9729948000 MAIL ADDRESS: STREET 1: 4975 PRESTON PARK BLVD STREET 2: STE 400 CITY: PLANO STATE: ТΧ ZIP: 75093 </SEC-HEADER> <DOCUMENT> <TYPE>10-K405 <SEQUENCE>1 <DESCRIPTION>FORM 10-K405 <TEXT> <PAGE>

# FORM 10-K

FOR ANNUAL AND TRANSITION REPORTS PURSUANT TO SECTIONS 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 (Mark one)

[X] Annual report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

FOR THE FISCAL YEAR ENDED DECEMBER 31, 1999

OR

[ ] Transition report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

COMMISSION FILE NUMBER 000-24733

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ENTRUST TECHNOLOGIES INC. (Exact name of registrant as specified in its charter)

MARYLAND 62-1670648 (State or other jurisdiction of (IRS employer identification no.) incorporation or organization)

ONE PRESTON PARK SOUTH, SUITE 400 4975 PRESTON PARK BLVD. PLANO, TX 75093 (Address of principal executive offices & zip code) Registrant's telephone number, including area code: (972) 943-7300

<TABLE> <C> <C> Securities registered pursuant to Section 12(b) of the Act: none Securities registered pursuant to Section 12(g) of the Act: Common Stock, \$.01 par value </TABLE>

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes [X] No [\_]

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of the registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. [X]

The aggregate market value of the common equity held by non-affiliates of the registrant, computed using the closing sale price of common stock on March 7, 2000, as reported on the Nasdaq National Market, was approximately \$4,400,000,000 (affiliates included for this computation only: directors, executive officers and holders of more than 5% of the registrant's common stock).

The number of shares outstanding of the registrant's common stock as of March 7, 2000 was 53,016,067.

# DOCUMENTS INCORPORATED BY REFERENCE

Portions of the definitive Proxy Statement to be delivered in connection with the Annual Meeting of Stockholders to be held April 27, 2000 are incorporated by reference into Part III of this Form 10-K. <PAGE>

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# ENTRUST TECHNOLOGIES INC.

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This report contains forward-looking statements that involve risks and uncertainties. The statements contained in this report that are not purely historical are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, including, among other things, statements regarding our expectations, beliefs, intentions or strategies regarding the future. All forward-looking

statements included in this report are based on information available to us up to and including the date of this document, and we assume no obligation to update any such forward-looking statements. Our actual results could differ significantly from those anticipated in these forward-looking statements as a result of certain factors, including those set forth below, under "Management's Discussion and Analysis of Financial Condition and Results of Operations -Quarterly Results of Operations" and "-- Certain Factors that May Affect Our Business" and elsewhere in this report. You should also carefully review the risks outlined in other documents that we file from time to time with the Securities and Exchange Commission, including our Quarterly Reports on Form 10-Q that we will file in 2000.

Entrust is a registered trademark, and We Bring Trust to e-Business, Entrust/Access, Entrust.net, Entrust@YourService, Entrust/SecureControl, Entrust-Ready, the Entrust design (Elmer), Entrust/Authority, Entrust/Directory, Entrust Electronic Identities, Entrust/Engine, Entrust/Entelligence, Entrust/Web Connector, Entrust/Commerce Connector, Entrust/VPN Connector, Entrust/Lite, Entrust/Solo, Entrust/ICE, Entrust/Express, Entrust/Direct, Entrust/Unity, Entrust/TrueDelete, Entrust/Toolkit, Entrust/PKI, Entrust InSource, Entrust Partner, Entrust/RA, Entrust/AutoRA, Entrust/Roaming, Entrust/Timestamp, Entrust/SignOn and Entrust SecureSummit are trademarks or service marks, of Entrust Technologies Limited, a majority-owned subsidiary of Entrust Technologies Inc. All other trademarks and service marks used in this Annual Report are the property of their respective owners.

PART I

### ITEM 1. BUSINESS

Entrust Technologies is the leading global provider of public-key infrastructure, or PKI, products and services to e-businesses and other organizations. Unlike products and services that focus primarily upon the issuance of digital certificates, which are similar to electronic passports, our award-winning solution is a comprehensive, end-to-end PKI framework designed to assure the security of electronic transactions and communications over advanced networks, including the Internet. Our open, scalable software solution operates across multiple platforms, network devices and applications. According to International Data Corporation, the worldwide market for PKI-based products and services is expected to grow from \$122.7 million in 1998 to \$1.3 billion in 2003. Since 1994, we have provided our PKI solution primarily to global enterprises and government entities, including Citibank, FedEx, MCI Worldcom, NASA, the United Kingdom Post Office and the Canadian Department of National Defense. To date, over four million users worldwide have been licensed to use Entrust products.

Our PKI solution is particularly relevant to organizations in the growing business-to-business, or B2B, electronic commerce market. We offer B2B organizations a comprehensive security solution that includes the robust functionality required to support their increasingly advanced and high-value electronic transactions and communications. We believe that we are wellpositioned to capitalize on our PKI market leadership to address B2B and other important markets, such as the business-to-consumer, or B2C, market. We are also actively developing additional functionality to address emerging opportunities, such as the growing need to secure e-business transactions conducted over wireless networks.

We are headquartered in Plano, Texas with offices in Canada, the United Kingdom, Switzerland, Germany and Japan, as well as additional offices in the United States.

The widespread adoption in recent years of public and private networks has revolutionized the manner in which organizations communicate and conduct business. These advanced networks provide an attractive medium for communications and commerce because of their global reach, accessibility, use of open standards and ability to permit interactions on a real-time basis. Proliferation of these networks has facilitated the storage, analysis and communication of critical information within and between organizations. At the same time, they have afforded businesses a user-friendly, low-cost way to conduct a wide variety of commercial functions electronically. Today, organizations are increasingly utilizing these networks to access new markets, improve customer service and streamline business processes. These types of electronic interactions can occur with a variety of audiences, each of which may have different business requirements for information security because of the nature and content of their communications and transactions. Electronic interactions can be divided into two market-based categories: business-tobusiness and business-to-consumer.

- Business-to-business transactions and communications occur between businesses and other organizations, and internally within these entities. Forrester Research, Inc. estimates that the market for B2B ecommerce will be \$1.3 trillion by the year 2003. B2B transactions generally require pre-existing or centrally managed relationships between participants. Goods and services transacted through B2B relationships are primarily paid for by means other than credit cards and, therefore, do not receive the fraud protection provided to consumers by credit card companies. B2B communications can also be purely informational where the information being sent between parties is often highly sensitive. For example, product research communications between a pharmaceutical company and a collaborating university contain extremely valuable intellectual property or confidential information that needs to be properly protected. Business processes involved in B2B transactions and communications are frequently complex, resulting in a need for sophisticated networking and software solutions. The B2B market typically requires supply-chain management software, procurement and payment systems, virtual private networking and remote access solutions, electronic mail systems, electronic forms software, sophisticated Web-based solutions, database systems and human resources applications.
- Business-to-consumer transactions and communications are generally interactions between a selling organization and the general public. Forrester Research, Inc. estimates that the market for online consumer transactions will be \$108 billion by the year 2003. B2C interactions are typically less complex than B2B interactions, often do not require a pre-existing relationship between buyer and seller and generally have fewer information security requirements than their B2B counterparts. Although many B2C interactions are currently executed over the Web using out-of-the-box Web browser and server software security capabilities, we anticipate that B2C participants will require more complete security solutions.

Need For Secure Transactions and Communications

The very openness and accessibility that have stimulated the adoption and growth of public and private networks create threats to the privacy and integrity of transactions and communications that are transmitted across or stored on them. Key information security concerns relating to electronic interactions include the risk of theft, alteration, interception or dissemination of confidential data, fraud, loss of reputation and economic loss. Threats to information security arise both from external sources such as competitors and computer hackers, as well as internal sources, such as curious or disgruntled employees and contractors. These risks have driven the demand for effective and robust network and information security products. 4

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The security risks associated with communications and commerce over public and private networks have accentuated the need for information security solutions that address six critical network security needs:

Access Control. Only authorized users should access, view or modify certain data.

Confidentiality. Data in transit over the network or in storage should not be disclosed to unauthorized persons.

Integrity. Data should not be altered or compromised by unauthorized manipulation.

Authentication. The identities of the parties involved in communications and transactions should be verified.

Authorization. Individuals should only be able to execute transactions or perform operations for which they have permission.

Nonrepudiation. The parties involved in an electronic exchange should not be able to deny or repudiate the exchange.

A wide range of products and services has been introduced to address one or more of these six critical network security needs. For example, access control is provided by products such as firewalls and password tokens, which limit network access only to users having recognized addresses or entering recognized passwords, but are limited in their flexibility and do not address such requirements as confidentiality, integrity, authorization and nonrepudiation. Encryption devices and programs provide confidentiality, but are devicedependent and do not address issues of access control, integrity, authentication, authorization and nonrepudiation. The lack of flexibility and scalability inherent in these solutions has led to the development of publickey encryption and digital certification systems combined in a public-key infrastructure, which can address all six critical network security needs.

# Public-Key Security

A public-key infrastructure uses encryption algorithms in combination with authentication and verification technology offered by digital certificates to provide users with a secure and reliable means of communicating and effecting transactions over public and private networks.

Public-Key Encryption. Digital messages are encrypted and decrypted using a cipher or key. Public-key encryption systems assign each user a pair of linked keys: a "public" key, which the user provides to others, and a "private" key, which the user keeps secret. A user wishing to send a secure transmission encrypts the transmission using the recipient's public key. To decode the transmission, the recipient uses a private key that is uniquely able to decode messages encoded with his or her corresponding public key. Thus, the successful exchange of encrypted messages using a public key system requires that message senders have the public keys for all recipients to whom they desire to send messages, and that the recipients decode messages with their own private keys. Public-key encryption provides a high level of data security, and thus addresses an enterprise's need for confidentiality of electronic transmissions. However, because encryption alone does not give the recipient of a message any information about the sender or ensure that a message is not altered en route, the requirements for access control, integrity, authentication, authorization and nonrepudiation are not satisfied.

Digital Certification. In addition to providing confidentiality, digital certification systems use public and private keys to create digital signatures. These signatures are encoded using the sender's private key. Upon receipt of

the message, the recipient obtains a copy of the sender's public key, which verifies that the message originated from the expected sender. Public keys are maintained in

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digital certificates issued by a Certification Authority, or CA. Digital certificates securely bind the owner's identity to his public key. Digital certificates thus function as electronic passports that not only authenticate their owners' identities and verify their owners' membership in certain organizations, but also establish their owners' authority to engage in a given transaction. Digital signature and certification technology also ensures the integrity of a message by enclosing an encrypted summary or "hash" of the message with the sender's digital signature. When the signature and hash are decrypted using the sender's public key, the system can automatically detect whether the message was altered since it was signed.

The security benefits of digital certification have led to increasing market demand particularly in markets where information security is critical, such as government, finance, health care and telecommunications. This increasing demand has given rise to numerous products and services that issue digital certificates or that are able to work with digital certificates. However, the mere issuance of digital certificates does not ensure that a user's access is properly monitored, that privileges associated with access are accurately and currently defined, or that the certificates in question have not been updated, withdrawn or replaced. Indeed, the proliferation of users and certificates greatly complicates management of these types of issues, which are critical to maintaining an effective security environment across and between organizations.

Need For a Comprehensive, End-to-End Public-Key Infrastructure

To address the management and business issues associated with use of public-key encryption and certificates, organizations, particularly those in the B2B market, must have a robust public-key infrastructure that supplements certificate issuance functions with full life cycle management of public and private keys, including issuance, authentication, storage, retrieval, backup, recovery, updating and revocation. In addition, these functions must operate in an easy-to-use, cost-effective manner.

Moreover, unless digital certificates and private keys can be easily utilized on a consistent and reliable basis across multiple applications, organizations will face the challenge and cost of maintaining a separate security infrastructure for each application. Maintaining these different security infrastructures could result in separate keys and certificates for each user for different applications, multiple passwords and inconsistent or incomplete security implementations. Such a disconnected, inconsistent set of products would be costly to operate and difficult to use. Furthermore, any PKI must be able to support an organization's security requirements as the enterprise grows, business functions are altered, and underlying information technologies evolve. To be effective, a public-key infrastructure must be able to accommodate a large number of users and integrate diverse computing resources into a cohesive, reliable and secure computing environment that meets the six critical network security needs.

Achieving these goals requires a highly functional and flexible public-key infrastructure that enables secure communications between and within organizations. The need for comprehensive, end-to-end public-key infrastructure solutions is particularly apparent for B2B transactions and communications, the majority of which have information security requirements that are met only by complete, end-to-end solutions that are cost-effective to operate and easy to use.

## The Entrust Solution

We are the leading global provider of comprehensive, end-to-end public-key infrastructure solutions, encompassing both products and services, that enable e-businesses and other organizations to effectively manage secure transactions and communications across a wide range of applications. Our PKI solution addresses the six critical network security needs and allows for consistent security policy management across and between organizations, and enables any

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organization to establish its own flexible, highly reliable PKI. We also offer users encryption functionality and full digital signature and certification management in an easy-to-use, integrated and automated solution. Among the benefits offered by our PKI solution are:

Comprehensive, End-to-End Functionality. We believe that we are the only provider of a comprehensive, end-to-end PKI solution offering the functionality necessary for the full life-cycle management of keys and digital certificates, including:

- certificate issuance;
- . certificate authentication;
- . key storage and backup;
- . key retrieval and recovery;
- . support for nonrepudiation;
- . authorization management;
- . certificate and key updating;
- . certificate revocation; and
- . cross-certification of PKIs.

Multiple Certificate Types. Our products and services support multiple certificate types and configurations, including:

- . Multi-application certificates that can be used across multiple applications. A user's single set of multi-application certificates can be accessed via our single sign-on solution and used across a wide variety of applications, including e-mail, e-forms, supply-chain management, payments and procurement, desktop encryption and remote access. Multi-application certificates enable ease-of-use because users only have one password to access numerous applications within an organization. One set of multi-application certificates per user also reduces operating costs because a single, comprehensive infrastructure supports a wide variety of applications. Since multi-application certificates are particularly valuable in the B2B marketplace, we believe that our solution is well-positioned to take advantage of the increasing number of e-business transactions and communications in that market.
- . Single-application certificates that allow enterprises to restrict use of the certificates by a particular user to one application. Customers can easily convert single-application certificates to multi-application certificates by extending their license with us. There are no technology changes required to convert single-application certificates to multi-application certificates.
- . Web certificates, including certificates for Web servers that are

frequently used to secure B2C credit-card transactions.

- Virtual private networking, or VPN, certificates for establishing secure, real-time communications sessions over networks.
- Wireless application protocol, or WAP, server certificates for establishing secure, real-time communication sessions with wireless devices such as cellular telephones.

Our support of multiple certificate types offers flexibility and choice to customers who can select the types of certificates and solutions that best meet their current business and information security requirements and provides a system that is easily adaptable to meet future security requirements.

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Open, Versatile Platform. Our PKI operates across a wide range of computing platforms, including:

- . Windows NT and UNIX servers;
- . UNIX, Macintosh, Windows (95, 98, NT, 2000) and JAVA clients;
- . applications, including e-mail, supply-chain management, payments and procurement, desktop encryption, secure file erasure, electronic forms and remote access;
- . wireless devices such as cellular telephones and pagers;
- . biometric devices, such as fingerprint readers, and smart cards;
- . network infrastructure, including firewalls, network operating systems and directories; and
- . open industry standards, such as the lightweight directory access protocol and well-known encryption algorithms, such as RSA, elliptic-curve, DES and Triple-DES.

Because many organizations operate numerous platforms for critical business systems, support for a wide variety of operating systems, devices, applications and open standards is essential to address B2B information security requirements. We also believe that support for these platforms makes us attractive to partners whose products and services work on multiple platforms.

Highly-Scalable Architecture. Our products employ a distributed computing architecture and directory management techniques that make them highly scalable. One of our customers has used our products to support over 100,000 users, and we believe that our PKI solution can be configured to handle millions of users.

Ease Of Use. Our products automatically and transparently enable complex certification and key management functions without requiring any action by the user. Users can access most functions via a single user login and simple point and click graphical interfaces. We believe that our PKI solution enables users to execute complex information security functions without needing significant training, and in many cases no training at all is required. Furthermore, we believe that the ease of use of our PKI solution is a significant benefit to customers and differentiates our solution from those of other PKI vendors.

Reduced Cost Of Ownership. Our PKI solution enables organizations to significantly reduce overall costs for addressing information security for the following types of reasons:

. comprehensive and automated functionality reduces duplication of

personnel;

- its ease of use simplifies or eliminates the need for training; and
- . its ability to interact with a wide variety of platforms and applications avoids the need to purchase multiple security systems.

Full Range of Support Services. We supply a comprehensive set of support services to organizations using our PKI solution. These services include:

- management of outsourced PKI operation and maintenance provided in conjunction with partners;
- . software upgrades and maintenance;
- . telephone support; and
- . installation and project management services.

Flexibility. Our PKI solution supports a wide variety of features and options, allowing customers to easily select the types of functionality they desire. This flexibility allows customers to allocate resources and tailor capital expenditures to meet their specific business and information

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security requirements. For example, our solution enables customers to begin with a less complex system and cost-effectively add advanced features as their security requirements change. In addition, the versatility of our solution allows customers to choose whether they wish to operate the PKI themselves or outsource the back-end management of the PKI to us or other third parties. At the same time, customers are able to change these types of decisions in the future as their business needs change, and still maintain the value of their investments in our solution.

### Strategy

Our objective is to maintain and enhance our position as the leading global provider of comprehensive, end-to-end PKI products and services that enable organizations to effectively manage secure transactions and communications across a wide range of applications. Key elements of our strategy include the following:

Capitalize on B2B Market Opportunities. We are focused on developing, marketing and selling products and services that enable secure B2B transactions and communications. We believe that our market leadership is founded on our strength and capabilities in providing an end-to-end, comprehensive solution required in the B2B market. Although we currently have numerous, large customers in this market, we believe that the market is still in the early stages of development and provides substantial growth opportunities in the future. We are targeting our sales and marketing activities at Global 2000 organizations and large government organizations having significant requirements for comprehensive PKI solutions and the resources to deploy them broadly. In particular, we are focusing our efforts in the finance, government, health care, telecommunications and large manufacturing sectors. Organizations in these markets frequently have thousands of customers, partners, subscribers and service recipients who will, directly or indirectly, benefit from secure transactions and communications enabled by our PKI solution.

Pursue Wireless Opportunities. We have developed, and will continue to develop, PKI products for wireless devices. We intend to aggressively pursue further extensions of our solution into the wireless market, including solutions for cellular telephones, pagers and other wireless-enabled devices such as personal digital assistants, or PDAs. We believe that these devices will be increasingly used in B2B and B2C transactions and communications.

Maintain Product Leadership and Increase Brand Recognition. Our PKI solution has been deployed commercially through multiple versions for over five years. Our technological leadership is attributable in large part to our research and development team, which includes researchers with international reputations in their fields. We intend to maintain and enhance our technological leadership in the e-business security market by continuing to invest in product research and development, to extend the functionality and interoperability of our products, and to participate actively in industry standards-setting organizations. We believe that our current set of products and technologies provides an extensive, versatile foundation that can be efficiently extended or modified to address new opportunities as they arise in the market. We further intend to capitalize on our product leadership by increasing brand awareness. Our goal is to equate our brand name with trusted e-business security. We undertake a variety of activities to promote the recognition of our brand identity and products, including the promotion and sponsorship of industry groups and conferences such as the Entrust SecureSummit.

Expand and Leverage Strategic Relationships. To encourage widespread acceptance of our PKI solution, we have established an Entrust Partner Program which currently includes:

. Value-added resellers and original equipment manufacturer partners, such as Compaq, Check Point Software, Newbridge Networks and IBM, which resell our products with their hardware and networking solutions;

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- . Consultant and system integration partners, such as PricewaterhouseCoopers, Ernst & Young and KPMG, which recommend and implement our Entrust PKI solution as part of their overall service offerings;
- . Application development partners, which have introduced more than 75 off-the-shelf, certified Entrust-Ready products and applications, including solutions for SAP R/3, PeopleSoft, Documentum, Sybase, Nortel Networks, Lucent, Adobe, Novell GroupWise, Axent, Jetform and Shana. We have also announced expected solutions forthcoming from major vendors such as Intel and Lotus Development;
- . Interoperability partners such as Cisco, Netscape, Microsoft and Network Associates, which offer products that can interoperate with and utilize the security features of our PKI solution;
- . Managed services partners such as First Data Corporation and EDS, which offer or plan to offer outsourcing services for our customers; and
- . Wireless partners such as Nokia and Research In Motion, or RIM, which offer interoperable security solutions with their devices.

We intend to continue to invest in and enhance the Entrust Partner Program, which provides services and products to partners, both to offer complete ebusiness security solutions to our customers and to broaden adoption of our PKI solution across markets and geographic areas.

Further Penetrate B2C Market. We intend to continue to expand our product offerings and customer base by developing, marketing and selling products and services for secure B2C interactions. In late May 1999, we founded a certification authority services business, called Entrust.net, which currently provides certificates for Web servers and wireless servers. From July through December 1999, Entrust.net sold approximately 4,300 Web server certificates. We believe that we obtained approximately 5% of the worldwide market for these 9/17/2018

certificates in our first two full quarters of operation. Providing B2C solutions allows us to add significant value to our B2B customers who often prefer a single provider for all of their PKI solutions. Another element of our B2C strategy includes embedding our certification authority in popular applications, such as Microsoft's and Netscape's browsers and Microsoft's Windows 2000 operating system.

Leverage Global Presence. We intend to leverage and expand our global operations. We had 53 employees based in Europe as of December 31, 1999. With our acquisition of r3 Security Engineering in June 1998, we obtained substantial European research and development expertise for the development of our PKI solution targeted at the European market. Our distribution partners in Europe and Japan provide further coverage to address Global 2000 organizations in target markets.

# Products and Product Development

Our PKI solution provides an integrated, open and scalable security framework that addresses e-business security needs across multiple platforms and applications. It also includes robust features, such as support of multiapplication certificates, that make it well-suited for high-value, business-tobusiness applications. Our solution includes:

- . a PKI infrastructure, which provides the requisite networking and security features to enable secure transactions and communications;
- . desktop applications that transparently integrate features of our PKI into common third-party desktop applications to address business-to-business and business-to-consumer transactions; and
- application developer toolkits that allow application developers to quickly and safely develop Entrust-Ready applications because the toolkits do not require developers to understand the complexities of information security.

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#### PKI Infrastructure

Our PKI infrastructure comprises software that manages and administers life cycles of keys and digital certificates throughout an organization and across multiple applications. The management of keys and digital certificates is essential to maintain security, ease of use and low-operating costs in a PKI solution. Critical elements of a PKI system, such as routinely updating keys prior to expiration and maintaining copies of historical keys to ensure data "locked" by these expired keys will not be lost, is all handled automatically by our PKI solution. These and other features are managed transparently to maintain a system that is easy to use, secure and low-cost to operate.

The PKI infrastructure also includes a directory compliant with the lightweight directory access protocol, or LDAP, for the storage and retrieval of certificates and software that enables applications and users to access the functionality provided by the PKI. The infrastructure is configurable to support the generation of certificates for virtual private network technologies and Web browsers and servers. The infrastructure also supports multiple hardware devices, such as smart cards, PC cards, biometric devices and thirdparty key storage systems. Finally, the infrastructure provides a secure timestamping capability that is valuable in business-to-business transactions and communications where the tracking of time is an important element of the interaction.

Our PKI infrastructure is designed with an open and flexible software architecture that operates on a wide range of client/server platforms, including:

- Windows NT, HP-UX and Solaris servers;
- . Windows (95, 98, NT, 2000), HP-UX, Solaris, AIX, JAVA and Macintosh clients; and
- . wireless devices, including cellular telephones and pagers.

Our software supports a wide variety of encryption algorithms, including RSA, as well as symmetric and hashing algorithms, allowing customers to select those algorithms best suited for their requirements. The system uses the LDAP standard to interoperate with most major directory systems, allowing customers to utilize existing directory systems and facilitating access to other directories as required. The system architecture enables us to add functionality as customer needs evolve and grow and allows the infrastructure to support the generation and maintenance of new certificate types easily, responding to technology developments and market pressures. The system's distributed computing architecture and directory management techniques also enable the PKI to be scaled as an organization's security needs increase or as users are added to existing infrastructures.

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We released the initial version of our PKI in 1994, with major upgrades in 1996, 1997, 1998 and 1999. Historically, the PKI infrastructure has generated a major portion of our revenues. The following table lists the products that constitute our core PKI solution, as well as a brief description of each product.

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<caption> Product Name</caption>	Description
<c> Entrust/Authority</c>	<pre><s> Provides comprehensive certification authority and key recovery capabilities, among</s></pre>
Entrust/RA	numerous other functions. Allows registration authorities, or RAs, to perform administrative
Entrust/AutoRA	tasks. Allows automated registration and administration of users.
Entrust/Roaming	Provides mobile users with secure access to their keys and certificates across multiple workstations.
Entrust/Timestamp	Securely establishes the time at which data were digitally signed.
Entrust Electronic Identities	Enterprise user "accounts" that authorize use of different types of certificates, including:
Entrust/Entelligence and Entrust/Engine	
Entrust/Web Connector	Enables use of digital certificates with popular browsers and servers, such as those offered by Microsoft and Netscape.
Entrust/VPN Connector	Enables use of digital certificates in standards-based VPN devices.

  |We license our Entrust/Authority and Entrust/RA products at a combined list https://www.sec.gov/Archives/edgar/data/1031283/000093066100000529/0000930661-00-000529.txt price of \$25,000 per server. We offer an LDAP-compliant directory product to enterprises for a list price of \$3,000 for installations of up to 1,000 users and \$3,000 plus a per-user fee for installations of more than 1,000 users. We charge for Entrust/AutoRA, Entrust/Roaming and Entrust/Timestamp according to the number of licensed users, starting at \$10,000. Entrust Electronic Identities for multi-application certificates have a list price of \$159 per licensed user. Entrust Electronic Identities are offered on a registered-user basis. We also offer customers with specialized security needs the ability to issue Web certificates at a charge of \$2 per certificate. Similarly, we allow customers to issue dedicated VPN certificates at a charge of \$100 per certificate. The actual license fees paid by customers vary widely, based on the number of products licensed, registered users, enabled platforms and volume discounts, if any.

Entrust/Authority. Entrust/Authority provides certification authority, or CA, and other functions that enable an organization to create, issue, manage, back-up, update and revoke electronic identities. Entrust/Authority also provides a secure enterprise key recovery system, issues certificate revocation information and establishes cross-certification relationships with other trusted certification authorities. A sophisticated audit reporting system monitors all security aspects of Entrust/Authority operations.

Entrust/RA. Through an easy-to-use graphical interface, registration authorities perform day-to-day administrative duties, including:

- . creating and deleting user identities;
- . changing users' names;
- . helping users recover lost keys and forgotten passwords; and

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. revoking users' certificates when necessary.

Entrust/AutoRA. Entrust/AutoRA allows customers to securely automate initial registration and administration of users. Automated registration is particularly important for highly-scalable customer environments to ensure that operating costs are minimized.

Entrust/Roaming. Entrust/Roaming allows mobile users to securely access their keys and certificates across multiple workstations without having to manually transport their keys and certificates on a device such as a smart card or floppy disk.

Entrust/Timestamp. Entrust/Timestamp allows users to securely associate the current date and time with an e-business transaction or communication.

Entrust Electronic Identities. Our Electronic Identity is an individual user's "account" or profile within the PKI. We offer Electronic Identities for multi-application or single-application use, or for more limited Web or virtual private networking use. Each multi- and single-application Electronic Identity can support numerous key pairs and certificates over its lifetime. Multiapplication Electronic Identities may be used across multiple Entrust-Ready applications whereas single-application Electronic Identities are licensed for use with one application. Our multi- and single-application Electronic Identities include software, known as Entrust/Entelligence and Entrust/Engine, that enables users and applications to access essential functionality within our PKI. A Web Electronic Identity enables a user to use certificates with popular Web browsers and Web servers. VPN Electronic Identities enable standards-compliant virtual private network technologies to establish secure electronic communications over public networks like the Internet.

## Entrust Applications

Our PKI infrastructure supports a wide variety of applications from multiple vendors that enhance the flexibility and usefulness of our PKI. We have also developed a number of applications in order to meet specific customer demands and facilitate the implementation of our PKI solution. These products both complement and interact with the PKI infrastructure to offer users enhanced functionality and increased interoperability with third-party applications, or they can operate as independent products, offering distinct functionality.

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The following table lists applications that we offer, including a brief description. Pricing for these products ranges from \$15 to \$39 per user. Some of these applications are bundled together with other products.

<table> <caption> Product Name</caption></table>	Description
<pre></pre>	<pre></pre>
Entrust/ICE	Provides security for files and folders
Entrust/Express	Provides security for popular e-mail applications, such as Microsoft's Exchange and
	Outlook products, and Qualcomm's Eudora
Entrust/Direct	Provides Entrust's automated key and
	certificate management features to secure Web sessions
Entrust/Unity	Provides Entrust's automated key and
	certificate management features to Netscape and Microsoft products
Entrust/SecureControl	Provides administration and use of
	authorization privileges for users of Web- based applications
Entrust/TrueDelete	Securely erases files from disks
Entrust/SignOn	Allows single sign-on to Entrust-Ready applications and Windows operating systems
Entrust/Access	Provides secure virtual private networking for
	remote access over public networks like the
Entrust Security for SAP R/3	Provides PKI security for SAP systems and
-	applications. Certified by SAP
Entrust Security for PeopleSoft	Provides PKI security for PeopleSoft systems and applications. Certified by PeopleSoft

</TABLE>

### Application Developer Toolkits

Our toolkits are a family of open, easy-to-integrate programming interfaces that provide security services, including full key life cycle management, to a broad range of applications. These toolkits operate across a variety of operating systems and support multiple programming languages. Because key and certificate management represents the most difficult aspect of adding security to an application, we provide toolkits to enable application developers to make their applications Entrust-Ready. The toolkits allow developers to rapidly make their applications secure but do not require developers to understand the complexities of information security. Our toolkits reduce the operating costs of their applications because customers only have to operate a single PKI and their Entrust-Ready applications operate in a consistent, cohesive manner.

# New Product Development

We devote significant resources to the development of new and enhanced product functionality to maintain our technology and product leadership. We employ a number of different methods for identifying product extension opportunities and new product candidates, including user group meetings and direct feedback, an active program of partnership and cooperation with companies developing complementary technologies, and continued participation and leadership in industry standards-setting bodies such as the Internet Engineering Task Force (IETF), the North American Clearinghouse Association (NACHA), the American National Standards Institute (ANSI) and the PKI Forum.

Some of our current and planned product development efforts include:

- additional products and services to secure transactions and communications over wireless devices such as cellular telephones, pagers and PDAs;
- . attribute certificates for privilege management;
- . electronic notary products and services; and

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. monitoring and assessment systems.

We are also continuing to increase the number of third-party applications and services that our PKI solution can manage, including VPN devices and routers and other popular user applications. Our scientists are also actively engaged in the development and improvement of the advanced cryptographic algorithms for use in our products.

Services and Support

Professional Services

We believe that a high level of service and support is critical to our success, and that a close and active service and support relationship is important to facilitate rapid implementation of our solution, assure customer satisfaction and provide us with important information regarding evolving customer requirements. Toward these ends, we have made a significant investment in expanding our services and support organization, which, as of December 31, 1999, consisted of 97 employees. Our services personnel have a broad range of experience in network security and include mathematicians, cryptographers and system designers. Furthermore, we are supplementing our traditional services and support revenue streams with additional service-based revenue streams, such as the revenue we receive through Entrust.net.

Our professional services organization provides consulting and systems integration services to support customers in designing, implementing and running our PKI solution. Activities of the professional services organization are supplemented with a professional services partner program that includes PricewaterhouseCoopers, Ernst & Young and KPMG. To facilitate the integration of PKI management into the customer's business operations, we also offer our Entrust InSource service, in which we provide on-site PKI management for customers on a long-term basis, or while the customer implements and trains personnel.

Our support offerings also include:

- . direct telephone consulting support by experienced technical account representatives;
- . 24-hour pager access, e-mail and fax support;
- . Internet access to our knowledge repository; and
- . discussion group access.

Payment of an annual maintenance fee also entitles customers to receive software enhancements to their licensed versions of our solution.

# Certification Authority Services

In May 1999, we launched a certification authority services business called Entrust.net. Entrust.net manages the issuance of multiple types of certificates, including Web server certificates that are frequently used to secure Web-based, B2C transactions. The list price for a one-year Web server certificate is \$299 and for a two-year certificate is \$499. Entrust.net also provides certificates to secure wireless transactions between cellular telephones and WAP servers. The list price for a one-year WAP certificate is \$695 and for a two-year WAP certificate is \$1,195.

# Entrust@YourService

We recently announced Entrust@YourService, a managed services model for delivering outsourced security solutions for B2B and B2C transactions and communications. As part of the launch of Entrust@YourService, we entered into a strategic alliance with Cash Tax, Inc., a subsidiary

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of First Data Corporation, a large electronic commerce and payment services company. Through this alliance, we plan to address the growing needs of customers that want to enable e-business solutions but choose to outsource the ongoing operational tasks. Entrust@YourService is designed to quickly and efficiently provide customers with comprehensive, end-to-end security solutions while still allowing these customers to retain control of the system implementation.

The full range of solutions available to customers operating their own PKI's are available to customers taking advantage of Entrust@YourService. Moreover, because both the in-house and managed services model use the same technology, customers have the flexibility to easily transition between the two models to support their evolving business needs. We made Entrust@YourService commercially available during the first quarter of 2000.

# Research and Development

Our research and development efforts are focused on developing new products, core technologies and enhancements to existing product lines to maintain and extend our technology and product leadership position. We spent approximately \$5.7 million, \$12.8 million and \$16.6 million on research and development in 1997, 1998 and 1999, respectively.

As of December 31, 1999, our research and development staff consisted of 166 employees. With the addition of r3, we added significant research and development capabilities in Europe and expanded our internationally-recognized team of professional cryptographers.

Our research and development staff is active in several prominent standards-setting bodies, including IETF, ANSI, the Internet PKIX group and ISO, and has contributed to a number of standards in the Internet and data security areas. We believe that we are well situated to respond to changes in relevant industry standards and to continue to participate in the development of these standards as the requirements of enterprises and users become increasingly complex.

# Customers

Our customers are generally domestic and foreign government entities and Global 2000 companies, including financial, health care, telecommunications and

large manufacturing organizations. As of December 31, 1999, we had licensed our software to more than 1,300 customers. The following is a representative list of our current customers that have accounted for more than \$200,000 of revenues each:

Banca Nazionale del	Industry Canada	S.W.I.F.T.
Lavoro	Interpay	Schlumberger
Bell Emergis	J.P. Morgan	Science
Canadian Dept. of	MCI Worldcom	Applications
National Defense	NASA	International
Citibank	Nortel Networks	United Kingdom Post
Columbia/HCA Healthcare	Royal Bank of	Office
Corporation	Scotland	U.S. Coast Guard
Digital Medical Systems	Royal Canadian	U.S. Patent and
FDIC	Mounted Police	Trade Office
FedEx	SECOM	U.S. Postal Service
Government of Ontario		

Historically, a limited number of customers have accounted for a significant percentage of our revenues. In 1997, our three largest customers accounted for 19%, 12% and 11% of our total revenues. In 1998, our three largest customers accounted for an aggregate of 23% of total revenues, with no individual customer accounting for more than 10% of revenues. In 1999, our three largest customers accounted for an aggregate of 31% of revenues, with the largest customer accounting for 24% of revenues. Although our largest customers have varied from period to period, we anticipate that our results of operations in any given period will continue to depend to a significant extent upon revenues from a small number of customers.

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### Sales, Marketing and Business Development

We offer our products and services through a multi-tiered approach reflecting the characteristics and buying behavior of the markets we cover. As of December 31, 1999, we had 212 employees in sales, marketing and business development.

# Direct Sales

To address our target market of Global 2000 organizations, we sell our products and services in North America, the United Kingdom and Germany primarily through a direct sales force. We believe that direct coverage by our sales force is necessary in light of the early stage of PKI adoption and the sophisticated requirements of our targeted customer base, and that a direct sales force gives us a competitive advantage in responding to customer needs as they evolve. Our direct sales force is divided into five North American regions, the United Kingdom and Germany. We assign teams within each region to specific accounts as their exclusive responsibility. We have also focused our sales efforts on key vertical markets that have a critical need for security and understand the value it creates for their businesses. These markets include government, finance, health care, telecommunications and large manufacturing.

We also established a General Markets Sales Group responsible for identifying and pursuing customer opportunities outside the defined responsibilities of the regional sales teams. The direct sales organization is also supplemented by targeted direct mail and telemarketing campaigns developed by our marketing organization. Finally, the direct sales organization is actively involved in selling all of our products and services, including those available from Entrust.net.

# Indirect Sales

To supplement our direct sales force, we have an Entrust Partner Program https://www.sec.gov/Archives/edgar/data/1031283/000093066100000529/0000930661-00-000529.txt

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involving a range of technology, marketing and sales relationships including:

- . VAR and OEM partners that focus on creating bundled solutions to permit customers to purchase total desktop applications incorporating our functionality. These partners include Compaq, Hewlett-Packard and IBM, which resell our products with their hardware and networking solutions, as well as Check Point Software and Newbridge Networks, which bundle our PKI solution with their own software products;
- . distributors and agents that promote and sell our products in defined geographic markets;
- . consultant and systems integration partners that recommend and implement Entrust-Ready security solutions as part of their overall service offerings to customers, thereby differentiating their offerings through the inclusion of PKI functionality. These partners include PricewaterhouseCoopers, Ernst & Young and KPMG; and
- . referral partners that refer their consulting and integration customers in designated markets to our PKI solution.

# Marketing

To support our sales force, we have a marketing group whose goals are to create a consistent, focused communication strategy that increases awareness of our PKI solution and brand name, and to leverage that awareness in the identification of new sales opportunities. The marketing group conducts marketing programs that include direct mail, trade shows, annual seminar series, executive breakfasts and ongoing customer communication programs. We have organized a number of major trade shows, including the annual Entrust SecureSummit to be held this year in Dallas, Texas in May. We also provide frequent Web updates, search engine registration, online advertising and product downloads.

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# Business Development

To identify and develop strategic relationships with targeted industry partners more effectively, we have a business development organization of 17 persons as of December 31, 1999 that pursues selected business development activities, including the administration and promotion of our Entrust Partner Program. These activities permit us to strengthen our relationships with existing strategic partners and identify and encourage new providers of software, network, computing and communications products to make their products Entrust-Ready. Our business development personnel are divided into three distinct teams that focus on B2B, B2C and general application partners.

#### Competition

The e-business security solutions market is intensely competitive, subject to rapid change and significantly affected by new product and service introductions, consolidation and other market activities by industry participants.

Because of the broad functionality of our e-business security solution, we compete currently or may in the future compete with vendors offering a wide range of security products and services as follows:

. companies offering commercial certification authority products and services such as VeriSign, Xcert and IBM in the market for issuing and maintaining digital certificates for use on public and private networks, some of whom, such as IBM and XCert, provide a product-based solution, while others, such as VeriSign, are primarily service providers;

- . companies, such as RSA Security and Baltimore Technologies, which offer PKI product solutions for enterprises;
- . established companies developing new e-business security offerings, such as Network Associates, which have each announced their intention to introduce PKI products that would be integrated with their other security product offerings, as well as Microsoft Corporation, which has announced a certificate server and other PKI-compatible products based on its Windows 2000 security framework;
- . other major networking vendors who may bundle digital certificates with their product offerings, with whom we compete on the basis of our ability to provide a centrally managed, real-time, comprehensive infrastructure with the features and functionality to support enterprise applications; and
- . companies in the emerging market for providing security across VPNs with major networking device companies, such as Lucent Technologies and Cisco, as well as firewall vendors such as AXENT and Check Point Software.

We believe that the principal competitive factors affecting the market for e-business security technology include technical features, ease of use, quality/reliability, level of security, scalability, customer service and support, and price. Although we believe that our products currently compete favorably with respect to such factors, there can be no assurance that we can maintain our competitive position against current and potential competitors.

### Regulatory Matters

Our products are subject to special export restrictions administered by the governments of the United States, Canada and other countries. Our products are also subject to import restrictions and/or use restrictions imposed by countries such as France. Consequently, our ability to export our products to destinations outside of the U.S. and Canada is subject to a variety of government

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approvals or licensing requirements. Re-export of the products between countries other than the U.S. and Canada may be subject to the export control laws of those countries in addition to those provisions of the U.S. and/or Canadian export control laws which apply to re-exports. In light of these restrictions, depending on the country of destination, industry sector, and/or end user, some of our products made available abroad may contain significantly weaker encryption capabilities than those available to customers in the U.S. and Canada, and there can be no assurance that we will continue to be able to export our products to any destinations outside of the U.S. and Canada. Such restrictions could potentially have an adverse effect on our business, financial condition or results of operations.

On January 14, 2000, the United States Department of Commerce issued new export regulations that apply to products that contain or use cryptography. These regulations generally make it substantially easier to sell U.S. encryption products abroad. In general, the new rules eliminate the constraints on the strength of the encryption that may be exported, after a one-time review of the product, and greatly broaden the endusers who may receive the products without a license.

This change should allow our products that are under the export license authority of the U.S. to be more competitive with products of foreign producers. However, we believe that some of our products are exempt from U.S. export authorization and they have been marketed accordingly. U.S. producers of products that compete with our non-U.S. products may now be able to market more aggressively in foreign countries, offering stronger encryption and offering products to broader industry groups.

In substance, the new rules are as follows: software products still cannot be exported to the embargoed countries of Cuba, Iran, Iraq, Libya, North Korea, Serbia, Sudan, Syria and Taliban-controlled areas of Afghanistan. However, after a one-time government review, encryption products of any key length will be exportable to non-governmental endusers worldwide, except for the embargoed countries. Thus, it is generally no longer necessary to follow separate rules based on encryption key length, "recoverability", or the type of end user or end use. The Department of Commerce has indicated recently that eleven of our products are now exportable to non-governmental end users worldwide without further review under the revised regulations, except to the embargoed countries listed above. In addition, our products which have been approved by the Department of Commerce in the past may be exported to non-government end users without a new technical review unless exports were previously limited to subsidiaries of U.S. companies. Encryption items may be exported to foreign subsidiaries of U.S. companies without any prior review or licensing, but new products developed from the exported products are still subject to a one-time government technical review.

If the government determines that an encryption product is a retail product, then it may be exported to any user, including foreign government endusers, in non-embargoed countries. Retail certification requires a new application to the Commerce Department, except that previously-reviewed 56-bit products and "finance-specific" products are considered to be retail products without additional review.

Export licenses are still required for exports of non-retail encryption products to Internet and telecommunications service providers if the products are used to provide services specifically to a foreign government or provide non-subscriber-based bulk backbone encryption.

Any mass market encryption product previously authorized for export under License Exception "TSU" may be upgraded to 64-bit encryption without a new technical review.

The government has imposed new post-export semi-annual reporting requirements for most export products, but this should not affect our export sales. However, these reporting requirements will create some administrative obligations.

We believe, and have informed the U.S. government, that certain of our products are exempt from U.S. encryption export restrictions under these criteria. However, we have not obtained any

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formal U.S. government ruling that any of our products produced and shipped from outside the U.S. may be exempt from U.S. encryption export controls, and there can be no assurance that the U.S. government will refrain from asserting jurisdiction over one or more of our products. Such a decision by the U.S. government to assert jurisdiction could result in penalties for past shipments and could restrict future sales of our products outside the U.S. and Canada, having a potentially significant adverse effect on our business, financial condition and results of operations.

# Intellectual Property

We rely on a combination of patent, copyright, trademark and trade secret laws, nondisclosure agreements and other contractual provisions to establish, maintain and protect our proprietary rights. We own 11 issued U.S. patents, along with corresponding, pending foreign patent applications, and 58 pending U.S. patent applications relating to our products. The issued patents are and will continue to be subject to certain license grants to others, including Nortel Networks and its cross licensees, under patent cross license agreements. We have copyright and trade secret rights for our products, consisting mainly of source code and product documentation. We use a printed "shrink-wrap" license for users of our products in order to protect certain of our copyrights and trade secrets. We attempt to protect our trade secrets and other proprietary information through agreements with suppliers, non-disclosure and non-competition agreements with employees and consultants and other security measures.

## Employees

As of December 31, 1999, we had 545 full-time employees, 408 of whom were employed by Entrust Technologies Limited, our Canadian subsidiary. Of our employees, 166 were involved in research and development, 212 in sales, marketing and business development, 97 in professional and customer support services and 70 in administration and finance. No employees are covered by any collective bargaining agreements, and we believe that our relationship with our employees is good.

Corporate Information

Stockholder Information American Securities Transfer & Trust, Inc. 12039 West Alameda Parkway, Suite Z-2 Lakewood, CO 80228 Phone: 303-986-5400 Fax: 303-986-2444

Legal Counsel Hale and Dorr LLP 60 State Street Boston, MA 02109

Independent Auditors Deloitte & Touche LLP 2200 Ross Avenue, Suite 1600 Dallas, TX 75201

For More Infromation Please contact Entrust Technologies' Investor Relations Department at: Phone: 613-248-3200 Email: investor@entrust.com

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#### **ITEM 2. PROPERTIES**

Our U.S. headquarters, including our executive offices and administrative facilities, is located in Plano, Texas, where we lease approximately 8,716 square feet of office space. We also lease approximately 69,000 square feet of office space at our Canadian headquarters in Ottawa, Ontario, Canada, with an additional 29,149 square feet of office space in the Ottawa area to accommodate expected growth in administrative, sales and marketing, research and development and operations personnel. In addition, we are currently under a development and leasing agreement to construct additional office space in Kanata, Ontario of approximately 145,000 square feet to accommodate future growth. It is anticipated that this facility will be completed in the fourth quarter of 2000. We also have offices located in London, England and Zurich, Switzerland.

We have sales offices in Chicago, Illinois, McLean, Virginia, Montreal, https://www.sec.gov/Archives/edgar/data/1031283/000093066100000529/0000930661-00-000529.txt

Quebec, New York, New York and St. Louis, Missouri, a sales and business development office in Menlo Park, California and a sales and professional services office in Raleigh, North Carolina. We lease a sales and support office in Bad Homburg, Germany.

# ITEM 3. LEGAL PROCEEDINGS

We are subject to various legal proceedings and claims, either asserted or unasserted, which arise in the ordinary course of business. While the outcome of these claims cannot be predicted with certainty, management does not believe that the outcome of any of these legal matters will have a significant adverse effect on our consolidated results of operations or consolidated financial position.

On February 19, 1999, Surety Technologies, Inc. filed Civil Action 99-203 against us alleging that the Entrust/Timestamp product infringed various claims of U.S. Patent Re 34,954. In a verdict returned on November 3, 1999, a federal jury found that all of the claims of the 954 Patent asserted by Surety against us were invalid for reasons of both anticipation and obviousness. As a result of the jury's decision, Surety's complaint has been dismissed with prejudice. On November 4, 1999, judgment was entered in favor of us in the United States District Court for the Eastern District of Virginia in Civil Action 99-203.

## ITEM 4. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS

No matter was submitted to a vote of our shareholders during the fourth quarter of 1999.

EXECUTIVE OFFICERS AND DIRECTORS OF THE REGISTRANT

Our executive officers and directors and their respective ages and positions as of December 31, 1999 are as follows:

<table> <caption> Name</caption></table>	Age Position with Entrust
<s></s>	<c> <c></c></c>
John A. Ryan	43 President, Chief Executive Officer and Director
Brian O'Higgins	44 Executive Vice President and Chief Technology Officer
Richard D. Spurr	46 Executive Vice President, Global Sales And Services
David L. Thompson	46 Senior Vice President, Finance and Chief Financial Officer
Robert W. Heard	48 Senior Vice President, Marketing and Business Development
Hansen Downer	47 Vice President, Professional Services
F. William Conner	40 Chairman of the Board
Butler C. Derrick, Jr	63 Director
Jawaid Ekram	49 Director
Terrell B. Jones	50 Director
Michael P. Ressner	51 Director
Christopher M. Stone	42 Director
James A. Thomson 	

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John A. Ryan has served as our President and Chief Executive Officer and as a director since our founding in December 1996. From October 1995 until December 1996, he served as the Vice President and General Manager for the Multimedia and Internet Solutions business unit of Nortel Networks. Prior to that time, from August 1992 until October 1995, he served as Assistant Vice President, Marketing for the Enterprise Network group of Nortel Networks. Since joining Nortel Networks in 1981, he has also served in various senior positions in marketing, customer service and finance. Brian O'Higgins has served as our Executive Vice President and Chief Technology Officer since our founding in December 1996. Mr. O'Higgins cofounded the Nortel Networks Secure Networks business unit in 1994, which became Entrust Technologies Inc. in December 1996. Previously, he was employed by Bell Northern Research Ltd., the research and development subsidiary of Nortel Networks, which he joined in 1979.

Richard D. Spurr has served as our Executive Vice President, Global Sales and Services since December 1999 and was our Senior Vice President, Sales and Marketing from March 1998 until December 1999. From June 1997 until March 1998, he served as our Senior Vice President of Global Sales. From December 1990 to March 1997, he held numerous executive positions for SEER Technologies, Inc., a developer of component-based software applications, including Vice President of Strategic Alliances from January 1994 to November 1996 and Vice President of Major Accounts from December 1996 to March 1997. From June 1974 until December 1990, Mr. Spurr served in various sales and sales management positions with IBM.

David L. Thompson has served as our Senior Vice President, Finance and Chief Financial Officer since October 1999. From September 1996 to September 1999, he served as Vice President of Finance of Nortel Networks' Enterprise Solutions global business, which comprises customer premise data and voice equipment research, manufacturing, sales and service. From January 1994 to August 1996, he served as Vice President of Finance of Nortel Networks World Trade, the marketing, sales and service organization for Nortel Networks' suite of products outside North America. From January 1992 to December 1994, he served as Vice President of Finance for Nortel Networks' Asia/Pacific business.

Robert W. Heard has served as our Senior Vice President, Marketing and Business Development since April 1999. From December 1993 to March 1999, Mr. Heard served as the Group Vice President and General Manager of the Commerce Payments Business Unit at Sterling Commerce, a provider of end-to-end ecommerce solutions. Prior to such time, he held various positions in sales, marketing and product management at IBM Corporation, a computer company.

Hansen Downer has served as our Vice President, Professional Services since December 1997. From February 1997 to November 1997, Mr. Downer served as Vice President of Sales,

Marketing and New Product Development at Interpath Communications, Inc., an Internet service provider. From March 1996 until August 1996, Mr. Downer served as Vice President of Customer Service and Telecom Network Design for the Physician's Desktop Company, a network development company and a subsidiary of Imonics Corporation. From May 1995 until March 1996, Mr. Downer served as Vice President of Business Development at Imonics Corporation, a client server systems integration company focused on the health care industry. Prior to that time, from 1979 to December 1994, he worked for Nortel in a number of roles.

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F. William Conner has served on our board of directors since July 1997 and as Chairman of the Board since October 1998. He has served as Executive Vice President and President, Enterprise Solutions of Nortel Networks since November 1999. From July 1999 to October 1999, Mr. Conner served as Executive Vice President and Chief Marketing Officer of Nortel Networks. He served as Executive Vice President of Nortel Networks Corporate Marketing and Communications from September 1998 until August 1999. Mr. Conner served as Senior Vice President and President of Nortel Networks' Enterprise Data Networks line of business from February 1998 until September 1998. From August 1995 until February 1998, Mr Conner served as Executive Vice President, Sales and Marketing for the Enterprise Networks line of business of Nortel Networks. Prior to that time, from 1992 until July 1995, Mr. Conner held a variety of sales and marketing executive positions in the voice and data enterprise lines of business of Nortel Networks. Butler C. Derrick, Jr. has served on our board of directors since May 1999. Since August 1998, Mr. Derrick has been a Partner at the law firm of Power, Goldstein, Frazer & Murphy LLP, Washington, D.C. From January 1995 to July 1998, Mr. Derrick was a Partner at the law firm of Williams & Jensen, Washington, D.C. Mr. Derrick served in Congress as a United States Representative from South Carolina from January 1975 to January 1995. While in Congress, Mr. Derrick held numerous posts, including Deputy Majority Whip and Vice Chairman of the House Rules Committee.

Jawaid Ekram has served on our board of directors since May 1999. Since December 1994, Mr. Ekram has been a Senior Vice President of Visa International Incorporated in various capacities. Currently Mr. Ekram is responsible for International Network & Global Access Technology Services. This worldwide online network supports the world's largest payment system for credit card authorization and settlement.

Terrell B. Jones has served on our board of directors since November 1998. He has served as Chief Information Officer and Senior Vice President of the SABRE Group Holdings, Inc., an information technology company, as well as President of SABRE Interactive since July 1996. He previously served as President of the SABRE Computer Services for American Airlines from 1993 to 1996.

Michael P. Ressner has served on our board of directors since May 1999. He has served as the Vice President of Finance of Nortel Networks Enterprise Solutions group since February 1999. From May 1994 to January 1999, Mr. Ressner served as Vice President of Finance for the Carrier Solutions business unit of Nortel Networks. Prior to these assignments, Mr. Ressner held a number of senior finance management posts within various business units of Nortel Networks.

Christopher M. Stone has served on our board of directors since May 1999. He founded Tilion.com Inc., a company which builds B2B Internet infrastructure for Web intelligence, and has served as its Chief Executive Officer since November 1999. From 1989 to October 1999, he served as Senior Vice President of Strategy and Corporate Development at Novell, Inc., a network software provider. Prior to joining Novell in 1989, Mr. Stone founded Object Management Group, Inc., a not-for-profit corporation that develops specifications for the software industry, and served as its Chairman, President and Chief Executive Officer. Mr. Stone currently serves on the Board of Directors of NetObjects, Inc.

James A. Thomson has served on our board of directors since May 1999. He has served as President and Chief Executive Officer of RAND Corporation, a nonprofit, non partisan research and analysis institution, since August 1989. Prior to joining RAND Corporation in 1981, Dr. Thomson was a member of the National Security Council staff at the White House. Mr. Thomson serves on the Boards of Directors of AK Steel Corporation and Texas Biotechnology Corporation.

Each executive officer serves at the discretion of the board of directors and holds office until his or her successor is elected and qualified or until his or her earlier resignation or removal. There are no family relationships among any of our directors or executive officers.

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#### PART II

## ITEM 5. MARKET FOR REGISTRANT'S COMMON STOCK AND RELATED STOCKHOLDER MATTERS

Our common stock has been quoted on the Nasdaq National Market under the symbol "ENTU" since August 18, 1998. The following table sets forth, for the periods indicated, the high and low sales prices per share of our common stock

as reported on the Nasdag National Market.

<table> <caption></caption></table>		
	High	Low
<s> 1998</s>	<c></c>	<c></c>
Third Quarter (beginning August 18, 1998) Fourth Quarter		
 First Quarter. Second Quarter. Third Quarter. Fourth Quarter. 		

 34.00 34.88 | \$20.63 16.88 20.13 18.31 |As of March 7, 2000, we had approximately 124 holders of record of common stock. Because many of these shares are held by brokers and other institutions on behalf of stockholders, we are unable to estimate the total number of stockholders represented by these holders of record.

We have never declared or paid any cash dividends on our shares of common stock. We intend to retain future earnings, if any, to finance our growth strategy. We do not anticipate paying cash dividends on our common stock in the foreseeable future. Payment of future dividends, if any, will be at the discretion of our board of directors after taking into account various factors, including our financial condition, our operating results, our current and anticipated cash needs, restrictions in any future financing agreements and our plans for expansion. See "Management's Discussion and Analysis of Financial Condition and Results of Operations--Liquidity and Capital Resources".

Use of Proceeds

On August 21, 1998, we closed an initial public offering of our common stock, \$.01 par value. The Registration Statement on Form S-1 (File No. 333-57275) was declared effective by the Securities and Exchange Commission on August 17, 1998 and we commenced the offering on that date.

After deducting the underwriting discounts and commissions and the offering expenses, the net proceeds to us from the offering were approximately \$79,097,515.

As of December 31, 1999, approximately \$19.1 million of the net proceeds of the offering had been used to fund working capital, expansion of our facilities and our investments in other long-term assets. The remaining net proceeds are invested in short-term, interest-bearing, investment grade securities. The entire amount of the net proceeds has been allocated for general corporate purposes and working capital, including product development and the possible acquisition of additional businesses and technologies that are complementary to our current or future business. None of the proceed amounts were paid directly or indirectly to any director, officer, or general partner of us or our associates, persons owning 10 percent or more of any class of our equity securities, or an affiliate of us.

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# ITEM 6. SELECTED FINANCIAL DATA

The data set forth below should be read in conjunction with "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our consolidated financial statements and notes thereto included elsewhere in

this Annual Report.

# <TABLE> <CAPTION>

<caption></caption>					
	Year Ended December 31,				
	1995	1996		1998	1999
				r share da <sup>.</sup>	
<s></s>				<c></c>	
Statement of Operations Data:					
Revenues: License	¢ 1 0/E	¢ 0 c00	¢16 106	\$ 36,773	¢c1 100
Services and maintenance		4,113		12,215	23,732
Total revenues		12,802		48,988	85,214
Cost of revenues:					
				1,985	
Services and maintenance					
Total cost of revenues	984	3,550		9,531	15,302
Gross profit		9,252	20,090	39,457	69,912
Operating expenses:					
	1,914	3,858	11,193	26,802	40,900
Research and development				12,840	
General and administrative	1,212	2,464	3,695	5,046	7,752
Acquired in-process R&D and goodwill amortization				20,564	712
Total operating expenses		9,196	20,580	65,252	65,969
Income (loss) from operations					
Interest income				1,807	
Income (loss) before income	(				
<pre>taxes (Provision) benefit for income</pre>	(2,424)	56	233	(23,988)	7,719
taxes	301		281		(1,800)
Net income (loss)	\$(2,123) ======		\$    514 ======	\$(23,828) ======	\$ 5,919 ======
Net income (loss) per basic					
share Net income (loss) per diluted				\$ (0.68)	
share Shares used in basic per share			\$ 0.01	\$ (0.68)	\$ 0.11
computation Shares used in diluted per share			30,700	35,255	43,847
<pre>computation&lt;</pre>					

	41,743	35,255	54,803							
		De	ecember 3	1,						

 1995
 1996
 1997
 1998
 1999

 (in thousands)

 <S>
 <C>
 <C>
 <C>
 <C>

 Balance Sheet Data:

 Cash, cash equivalents and short \$ - \$ 12,638 \$ 81,067 \$ 89,271

9/17/2018

Working capital (deficit)	1,016	(1,186)	13,707	77,438	87,918
Total assets	2,190	3,687	24,757	107,829	130,520
Shareholders' equity (deficit) 					

 1,672 | (60) | 14,662 | 87,059 | 103,155 |<PAGE>

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

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The following discussion and analysis of our financial condition and results of operations should be read in conjunction with "Selected Financial Data" and our consolidated financial statements and notes thereto appearing elsewhere in this Annual Report. This discussion and analysis contains forwardlooking statements that involve risks, uncertainties and assumptions. Our actual results may differ materially from those anticipated in these forwardlooking statements as a result of certain factors, including those set forth under "Certain Factors That May Affect Our Business" and elsewhere in this Annual Report.

# Overview

We are the leading global provider of PKI products and services to ebusinesses and other organizations. We are committed to enabling businesses to conduct e-commerce securely, ensuring they benefit from increased service efficiency, technology cost savings and the confidence associated with trusted e-business technologies. Our products and services enable organizations and their partners to manage trusted, secure electronic transactions and communications over today's advanced networks, including intranets, extranets and the Internet.

We were originally established in January 1994 as the Secure Networks group of Nortel Networks Corporation to pursue the development and sale of PKI products. During December 1996, Nortel Networks restructured its Secure Networks group by incorporating Entrust Technologies Inc. in Maryland and Entrust Technologies Limited in Ontario, Canada. As a result of the restructuring and concurrent private placement, the assets and business of the Secure Networks group were transferred to the newly incorporated companies, and Entrust Technologies Inc. became a majority-owned subsidiary of Nortel Networks and Entrust Technologies Limited became a majority-owned subsidiary of Entrust Technologies Inc. In 1998, Entrust Technologies (UK) Limited was incorporated in the United Kingdom as a wholly owned subsidiary of Entrust Technologies Inc. In June 1998, we acquired 100% ownership of r3 Security Engineering AG, a professional services organization specializing in electronic security consulting, located in Switzerland. We completed our initial public offering of common stock in August 1998. In 1999, we incorporated two additional, wholly owned European subsidiaries, Entrust Technologies GmbH in Germany and Entrust Technologies S.A.R.L. in France. Additionally, at the end of November 1999, we reorganized our r3 business in Switzerland and formed Entrust Technologies (Switzerland) Ltd. Liab. Co.

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Results Of Operations

The following table sets forth certain statement of operations data expressed as a percentage of total revenues for the periods indicated:

<TABLE> <CAPTION>

Year Ended December 31,

------

		1998	
<s></s>	 <c></c>	 <c></c>	
Revenues:			
License Services and maintenance	34.1		27.8
Total revenues	100.0		100.0
Cost of revenues:			
LicenseServices and maintenance			
		13.4	
Total cost of revenues	19.7		18.0
Gross profit	80.3		82.0
Operating expenses:			
Sales and marketing	44.8		48.0
Research and development	22.7		
General and administrative	14.7	10.3	9.1
Acquired in-process research and development and			
goodwill amortization		42.0	
Total operating expenses	82.2		77.4
Income (loss) from operations			
Interest income	2.9	3.7	4.4
Income (loss) before income taxes		(49.0)	
(Provision) benefit for income taxes	1.1	0.3	(2.1)
Net income (loss)	2.1%	(48.7)%	6.9%

</TABLE>

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Years Ended December 31, 1997, 1998 and 1999

Revenues

We recognize revenues in accordance with the provisions of the American Institute of Certified Public Accountants' Statement of Position ("SOP") 97-2 "Software Revenue Recognition". We generate revenues primarily from licensing the rights to our software products to end users and, to a lesser extent, from sublicense fees from resellers. We also generate revenues from consulting, training and post-contract support, or maintenance, performed for customers who license our products. Prior to 1998, our revenue recognition policy was in accordance with the provisions of the previous authoritative guidance provided by SOP 91-1, "Software Revenue Recognition".

Accordingly, revenues from perpetual software license agreements are recognized as revenues upon receipt of an executed license agreement, or an unconditional order under an existing license agreement, and shipment of the software, if there are no significant remaining vendor obligations, collection of the receivable is probable and payment is due within twelve months.

Revenues from maintenance services are recognized ratably over the term of the maintenance period, which is typically one year. If maintenance services are included free of charge or discounted in a license agreement, such amounts are unbundled from the license fee at their fair market value based upon the value established by independent sales of such maintenance services to other customers. Revenues from the sale of Web server certificates by Entrust.net, our certification authority service, are also recognized ratably over the term of the certificate, which is typically one to two years.

Consulting and training revenues are generally recognized as the services are performed. Consulting services are typically performed under separate service agreements and are usually performed on a time and materials basis. Such services primarily consist of implementation services related to the installation and deployment of our products and do not include significant customization or development of the underlying software code.

We use the percentage of completion method to account for large custom development contracts. Under this method, we recognize revenues and profit as the work on the contract progresses. Revenues are recognized by applying the percentage of the total cost incurred to date divided by the total estimated contract cost to the total contract value, and any projected loss is recognized immediately. The project cost estimates in each case are reviewed on a regular basis.

Total Revenues. Total revenues increased 96% from \$25.0 million in 1997 to \$49.0 million in 1998 and increased 74% to \$85.2 million in 1999. Total revenues derived from North America increased 60% from \$23.6 million in 1997 to \$37.7 million in 1998 and increased 90% to \$71.8 million in 1999, while total revenues derived from outside of North America increased 707% from \$1.4 million in 1997 to \$11.3 million in 1998 and increased 19% to \$13.4 million in 1999. Although the majority of the overall growth in total revenues in 1998 and 1999 has been experienced in North America, we have also focused on growing our revenue base internationally, particularly in Europe and Asia. However, the level of non-North American revenues has fluctuated from period to period and is expected to continue that trend in the foreseeable future. In 1997, three customers individually accounted for 19%, 12% and 11% of revenues, respectively. In 1998, no single customer accounted for 10% or more of total revenues. In 1999, a single customer accounted for 24% of revenues, and no other customers accounted for 10% or more of revenues.

License Revenues. License revenues increased 123% from \$16.5 million in 1997 to \$36.8 million in 1998 and increased 67% to \$61.5 million in 1999, representing 66%, 75% and 72% of total revenues in the respective years. The increase in license revenues in absolute dollars was primarily due to increasing market awareness and acceptance of our product offerings, continued enhancement and increasing breadth of our product offerings, expansion of our sales and marketing

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organization, and sales to new industry segments. The increase in license revenues as a percentage of total revenues from 1997 to 1998 reflected our continued focus on the product side of the business and the increased use of third-party consulting firms and systems integrators to provide implementation services to our customers. The decrease in license revenues as a percentage of total revenues from 1998 to 1999 was

in license revenues as a percentage of total revenues from 1998 to 1999 was primarily a result of the increasing maintenance revenue stream and increased demand for consulting services.

Services and Maintenance Revenues. Services and maintenance revenues increased 44% from \$8.5 million in 1997 to \$12.2 million in 1998 and increased 94% to \$23.7 million in 1999, representing 34%, 25% and 28% of total revenues in the respective years. The increase in services and maintenance revenues was primarily the result of an increase in demand for consulting services and customer support, and increases in maintenance revenues from a larger installed product base. The decrease in services and maintenance revenues as a percentage of total revenues from 1997 to 1998 was largely due to our focus on building the product side of the business and building successful partnering relationships with third-party service providers to provide services to customers. The increase in services and maintenance revenues as a percentage of total revenues from 1998 to 1999 was the result of our increasing customer base accelerating the demand for consulting services to assist these customers as they deploy our solutions. We continue to focus on building our relationships with outside service providers to ensure that we have adequate resources available to meet the demand of our customers.

## Cost of Revenues

Cost of License Revenues. Cost of license revenues consists primarily of costs associated with product media, documentation, packaging and royalties to third-party software vendors. Cost of license revenues was \$502,000 in 1997, \$2.0 million in 1998 and \$2.3 million in 1999, representing 2%, 4% and 3% of total revenues for the respective years. The increase in cost of license revenues in absolute dollars and as a percentage of revenues for 1998 and 1997 was primarily a result of higher royalty fees paid to third-party software vendors, as we incorporated a higher level of third-party software in our products in 1998. While the cost of license revenues was relatively flat from 1998 to 1999, the decrease in cost of license revenues as a percentage of total revenues was primarily the result of a shift in the mix of third-party software vendor products sold in 1999 compared to 1998. The mix of third-party products may vary from period to period and our gross margins and, consequently, our results of operations could be adversely affected.

Cost of Services and Maintenance Revenues. Cost of services and maintenance revenues consists primarily of personnel costs associated with customer support, training and consulting services, as well as amounts paid to thirdparty consulting firms for those services. Cost of services and maintenance revenues was \$4.4 million in 1997, \$7.5 million in 1998 and \$13.0 million in 1999, representing 18%, 15% and 15% of total revenues for the respective years. The increase in absolute dollars reflects the increased costs associated with the higher levels of services and maintenance revenues during 1998 and 1999. The decrease as a percentage of total revenues from 1997 to 1998 was primarily a result of license revenues growing more rapidly than service and maintenance revenues. The higher percentage of cost of services and maintenance revenues as a percentage of total cost of revenues in 1997 reflected the cost of hardware components related to system integration arrangements during that year. The cost of services and maintenance revenues as a percentage of total revenues remained flat from 1998 to 1999 despite increasing services and maintenance revenues as a percentage of total revenues due to improved productivity levels achieved in 1999 by the consulting team.

Services and maintenance gross profit as a percentage of services and maintenance revenues was 48% in 1997, 38% in 1998 and 45% in 1999. The decrease in the services and maintenance margin from 1997 to 1998 reflected the investment made during 1998 in expanding our customer

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support organization to support the growing customer base and the impact on productivity related to the integration of the r3 consulting organization during the third and fourth quarters of 1998. Also, investments were made in building our consulting organization in order to prepare for expected future increases in demand for these services. The increase in the services and maintenance margin from 1998 to 1999 reflected the shift in the mix of services revenues toward higher-margin maintenance revenues. In addition, the services personnel hired in 1998 were achieving higher productivity levels in 1999.

# **Operating Expenses**

Sales and Marketing. Sales and marketing expenses increased from \$11.2 million in 1997 to \$26.8 million in 1998 and \$40.9 million in 1999, representing 45%, 55% and 48% of total revenues in the respective years. These increases in absolute dollars from 1997 to 1999 and as a percentage of total

revenues from 1997 to 1998 were primarily the result of costs associated with the expansion of our sales and marketing organization, both domestically and internationally, as well as significant investments in marketing during 1999 as we launched a number of new products and marketing programs. We have continued our strategy of (a) investing in hiring and training our direct sales organization in anticipation of future market growth, and (b) investing in marketing efforts in support of new product launches. Failure of these investments to generate future revenues could have a significant adverse effect on our operations. The decrease as a percentage of total revenues from 1998 to 1999 reflected the higher revenue base as well as improvements achieved in productivity of sales and marketing personnel and efficiencies gained in the related processes.

Research and Development. Research and development expenses increased from \$5.7 million in 1997 to \$12.8 million in 1998 and \$16.6 million in 1999, representing 23%, 26% and 20% of total revenues in the respective periods. The increased investment in research and development expenses in absolute dollars and as a percentage of total revenues from 1997 to 1998 primarily reflected higher expenses related to increased staffing of software developers. These employees were added primarily in the second half of 1998 in connection with the continuing expansion and enhancement of our product offerings and our commitment to quality assurance and testing and as a result of our acquisition of r3 in June 1998. The investment in research and development as a percentage of total revenues decreased in 1999 as a result of growth of revenues outpacing the expansion of our development team in 1999. However, we believe that we must continue to invest in research and development in order to maintain our technological leadership position and, thus, expect research and development expenses to continue to increase in absolute dollars as we hire additional experienced security experts and software engineers.

General and Administrative. General and administrative expenses increased from \$3.7 million in 1997 to \$5.0 million in 1998 and \$7.8 million in 1999, representing 15%, 10% and 9% of total revenues in the respective years. The increase in general and administrative expenses in absolute dollars reflected our continued investment in increased staffing and related expenses for the enhancement of the infrastructure necessary to support our growing business, including investor relation programs, improved management information systems and the increased utilization of outside professional service firms. The decrease as a percentage of total revenues reflected efficiencies gained throughout our administrative processes as we have grown as a company.

Acquired In-process Research and Development and Goodwill Amortization. On June 8, 1998, we completed the acquisition of r3, a company based in Zurich, Switzerland that provides consulting, applied research and product development services related to commercial security and encryption solutions. Pursuant to the share purchase agreements dated May 30, 1998, entered into between us and the shareholders of r3, we agreed to acquire all the outstanding shares of r3 for an aggregate purchase price of \$23,774, which included 1,167,288 shares of our common stock and cash consideration of approximately \$4.4 million. This acquisition was recorded under the purchase

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method of accounting, and, therefore, the results of operations of r3 and the fair value of the acquired assets and liabilities are included in our financial statements beginning on the acquisition date. Upon consummation of the acquisition, r3 became a wholly owned subsidiary of Entrust Technologies Inc.

In connection with the acquisition in 1998, we obtained an appraisal of the intangible assets, which resulted in \$20.2 million of the purchase price being allocated to in-process research and development that had not yet reached technological feasibility and had no alternative future use. This in-process research and development was expensed in 1998. We recorded \$712,000 of amortization in 1999 with respect to the goodwill that arose as a result of

this acquisition, compared to \$356,000 in 1998.

### Interest Income

Interest income increased from \$723,000 in 1997 to \$1.8 million in 1998 and \$3.8 million in 1999, representing 3%, 4% and 4% of total revenues in the respective periods. The increase in investment income in 1998 and 1999 reflected the interest earned on the net proceeds of the initial public offering in August 1998 and on cash provided by operations in 1999.

#### Provision for Income Taxes

We recorded an income tax benefit of \$281,000 and \$160,000 in 1997 and 1998, respectively, compared with an income tax provision of \$1.8 million in 1999. We account for income taxes in accordance with Statement of Financial Accounting Standards No. 109. The income tax benefits recorded in 1997 and 1998 arose primarily from foreign research and development tax credits. The effective income tax rate of 23% in 1999 differed from statutory rates primarily due to the recognition of a portion of the tax benefits from the significant net operating loss and tax credit carryforwards available.

# Quarterly Results of Operations

Our guarterly operating results have varied substantially in the past and are likely to vary substantially from quarter to quarter in the future due to a variety of factors. In particular, our period-to-period operating results are significantly dependent upon the completion date of large license agreements. In this regard, the purchase of our products often requires a significant capital investment which customers may view as a discretionary cost and, therefore, a purchase that can be deferred or canceled due to budgetary or other business reasons. Estimating future revenues is also difficult because we ship our products soon after an order is received and, therefore, we do not have a significant backlog. Thus, quarterly license revenues are heavily dependent upon orders received and shipped within the same quarter. Moreover, we have generally recorded a significant portion of our total quarterly revenues in the third month of a quarter, with a concentration of these revenues in the last half of that third month. This concentration of revenues is influenced by customer tendencies to make significant capital expenditures at the end of a fiscal quarter. We expect these revenue patterns to continue for the foreseeable future. In addition, quarterly license revenues are dependent on the timing of revenue recognition, which can be affected by many factors, including the timing of customer installations and acceptance. In this regard, we have from time to time experienced delays in recognizing revenues with respect to certain orders. In any period a significant portion of our revenue may be derived from large sales to a limited number of customers. Despite the uncertainties in our revenue patterns, our operating expenses are based upon anticipated revenue levels and such expenses are incurred on an approximately ratable basis throughout the quarter. As a result, if expected revenues are delayed or otherwise not realized in a quarter for any reason, our business, operating results and financial condition would be adversely affected in a significant way.

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The following tables set forth certain unaudited consolidated quarterly statement of operations data for the eight quarters ended December 31, 1999, as well as such data expressed as a percentage of our total revenues for the periods indicated. These data have been derived from unaudited consolidated financial statements that, in our opinion, include all adjustments, consisting only of normal recurring adjustments, necessary for a fair presentation of such information when read in conjunction with our consolidated financial statements and related notes appearing elsewhere in this Annual Report. The operating results for any quarter are not necessarily indicative of results for any future period.

<table></table>
<caption></caption>

<capiion></capiion>	Quarter Ended									
 31,			Sept. 30,							
	1998	1998	1998		1999	1999	1999	1999		
 <s> Statement of Operations Data:</s>	<c></c>	<c></c>	(in thousa <c></c>		ot per shar <c></c>		<c></c>	<c></c>		
Revenues: License \$19,426	\$7,681	\$ 8,164	\$ 9,795	\$11,133	\$11,626	\$13,915	\$16,515			
Services and maintenance 6,585							6,108			
- Total revenues 26,011							22,623			
_										
Cost of revenues: License 874	342	470	507	666	395	414	603			
Services and maintenance 3,540	1,478	1,620	2,100	2,348	2,847	3,244	3,385			
- Total cost of revenues 4,414	1,820	2,090			3,242	3,658	3,988			
- Gross profit 21,597	8,104	8,924		11,997	13,583	16,097	18,635			
_										
Operating expenses: Sales and marketing 12,043	4,936	6,072	7,330	8,464	8,610	9,769	10,478			
Research and development 4,494	2,285	3,072	3,669	3,814	3,881	4,005	4,225			
General and administrative 2,383	1,064	1,207	1,356	1,419	1,494	1,882	1,993			
Acquired in-process R&D and goodwill amortization 178		20,208	178	178	178	178	178			
- Total operating		_	-							
expenses 19,098	8,285	30,559	12,533	13,875	14,163	15,834	16,874			
-										

Income (loss) from

9/17/2018 h	ttps://www.sec.	gov/Archives/ed	lgar/data/10312	283/000093066	6100000529/00	00930661-00-0	00529.txt	
operations	(181)	(21,635)	(2,101)	(1,878)	(580)	263	1,761	
2,499 Interest income 1,043	146	71	517	1,073	914	853	966	
- Income (loss) before income taxes 3,542 (Provision) benefit for income taxes (873)	(35) 160	(21,564)	(1,584)	(805)	334	1,116 (245)	2,727 (682)	
- Net income (loss) 2,669	\$ 125 ======	\$(21,564) ======	\$(1,584) ======		\$    334 ======	\$ 871	\$ 2,045 ======	\$
<pre>======= Net income (loss) per share Basic 0.06 ====== Diluted 0.05</pre>	\$ ====== \$	\$ (0.70) ====== \$ (0.70)		\$ (0.02) ====== \$ (0.02)	\$ 0.01 ====== \$ 0.01	\$ 0.02 ====== \$ 0.02	\$ 0.05 ===== \$ 0.04	
0.05 =======	=====							
Shares used in per share computation Basic 44,876	30,700	30,997	36,830	42,491	42,910	43,496	44,106	
====== Diluted 55,416	====== 45,231	====== 30,997	====== 36,830	42,491	====== 54,642	====== 54,463	====== 54,690	
====== 								

										32						
				Quarter	Ended											
31,	Mar. 31, 1998	June 30, 1998	Sept. 30, 1998	Dec. 31, 1998	Mar. 31, 1999	June 30, 1999	Sept. 30, 1999	Dec. 1999								
~~Statement of Operations Data:~~																
Revenues: License%	77.4 %	74.1%	75.1 %	74.1 %	69.1 %	70.4 %	73.0 %	74.7								
``` % Services and maintenance ```	22.6	25.9	24.9	25.9	30.9	29.6	27.0	25.3								
Total revenues Cost of revenues:	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0								
License	3.4	4.3	3.9	4.4	2.4	2.1	2.7	3.4								
https://www.sec.gov/Archives/edgar/data/1031283/000093066100000529/0000930661-00-000529.txt

https://www.sec.gov/Archives/edgar/data/1031283/000093066100000529/0000930661-00-000529.txt
---------------------------------------------------------------------------------------------

Services and maintenance	14.9	14.7	16.1	15.6	16.9	16.4	14.9	13.6
Total cost of revenues	18.3	19.0	20.0	20.0	19.3	18.5	17.6	17.0
Gross profit	81.7	81.0	80.0	80.0	80.7	81.5	82.4	83.0
Operating expenses: Sales and marketing Research and	49.8	55.1	56.2	56.4	51.2	49.5	46.3	46.3
development General and	23.0	27.9	28.1	25.4	23.0	20.3	18.7	17.3
administrative Acquired in-process R&D and goodwill	10.7	11.0	10.4	9.5	8.9	9.5	8.8	9.1
amortization		183.5	1.4	1.2	1.0	0.9	0.8	0.7
Total operating expenses	83.5	277.5	96.1	92.5	84.1	80.2	74.6	73.4
Income (loss) from operations Interest income	(1.8) 1.5	* 0.6	(16.1) 4.0	(12.5) 7.1	(3.4) 5.4	1.3 4.3	7.8 4.2	9.6 4.0
Income (loss) before income taxes (Provision) benefit for	(0.3)	*	(12.1)	(5.4)	2.0	5.6	12.0	13.6
income taxes	1.6					(1.2)	(3.0)	
Net income (loss) %	1.3 %	*	(12.1)%	(5.4)%	2.0 %	4.4 %	9.0 %	10.2
	=====	=====	=====	=====	=====	=====	=====	=====

</TABLE>

9/17/2018

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\*Not meaningful

# Liquidity and Capital Resources

We generated cash of \$7.8 million from operating activities during 1999. This cash inflow was primarily a result of an increase in accrued liabilities and deferred income and the net income achieved over the year. These inflows were partially offset by cash outflows relating to an increase in accounts receivable, prepaid expenses, and a decrease in accounts payable. Our average days sales outstanding at December 31, 1999 decreased to 75 days, from 84 days at December 31, 1998. The overall decrease in days sales outstanding from 1998 to 1999 reflects the improved collection efforts over the year and the quality of our relationships with our customers. For purposes of calculating average days sales outstanding, we divide ending accounts receivable by the current quarter's revenues and multiply this amount by 90 days. The level of accounts receivable at each quarter end will be affected by the concentration of revenues in the final weeks of each quarter and may be negatively affected by expanded international revenues in relation to total revenues as licenses to international customers often have longer payment terms.

During the year ended December 31, 1999, cash from investing activities included \$7.6 million provided primarily by the reduction of our marketable investments, net of \$102.2 million of marketable investment purchases. This was offset by investments of \$4.4 million in property and equipment and \$3.2 million in goodwill and other long-term assets. The property and equipment investments primarily took the form of computer hardware and leasehold improvements to support our growing organization. The investment in other long-term assets was largely related to a new investment, at cost, in a strategic business alliance and licenses for technology purchased for use in the
provision of services to customers.

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Cash provided by financing activities for the year ended December 31, 1999 was \$10.4 million, primarily due to the exercise of employee stock options and the sale of shares under our employee stock purchase plan.

As of December 31, 1999, our cash and short-term investments in the amount of \$89.3 million comprised our principal sources of liquidity. In addition, we issued and sold an aggregate of 2,074,260 shares of common stock in a follow-on offering in the first quarter of 2000, which resulted in proceeds to us of \$162.6 million, net of underwriting discounts and commissions but before expenses. It is our belief that cash flows from operations, the net proceeds from this offering and existing cash and cash equivalents and short-term investments will suffice to meet our needs for at least the next twelve months.

Certain Factors That May Affect Our Business

Our quarterly revenues and operating results are subject to significant fluctuations and such fluctuations may lead to a reduced market price for our stock

Our quarterly revenues and operating results have varied in the past and may continue to fluctuate in the future. We believe that period-to-period comparisons of our operating results are not necessarily meaningful, but securities analysts and investors often rely upon these comparisons as indicators of future performance. If our operating results in any future period fall below the expectations of securities analysts and investors, the market price of our securities would likely decline. Factors that have caused our results to fluctuate in the past and which are likely to affect us in the future include the following:

- . length of sales cycles associated with our product offerings;
- . the timing, size and nature of our licensing transactions;
- market acceptance of new products or product enhancements by us or our competitors;
- . the relative proportions of revenues derived from licenses and services and maintenance;
- . the timing of new personnel hires and the rate at which new personnel become productive;
- . changes in pricing policies by our competitors;
- . changes in our operating expenses; and
- . fluctuations in foreign currency exchange rates.

Estimating future revenues is difficult, and our failure to do so accurately may lead to a reduced market price for our stock and reduced profitability

Estimating future revenues is difficult because we ship our products soon after an order is received and, as such, we do not have a significant backlog. Thus, quarterly license revenues depend heavily upon orders received and shipped within the same quarter. Moreover, we historically have recorded 60% to 80% of our total quarterly revenues in the third month of the quarter, with a concentration of revenues in the second half of that month. We expect that this concentration of revenues, which is attributable in part to the tendency of some customers to make significant capital expenditures at the end of a fiscal quarter and to sales patterns within the software industry, will continue for the foreseeable future.

Our expense levels are based, in significant part, upon our expectations as to future revenues and are largely fixed in the short term. We may be unable to adjust spending in a timely manner to compensate for any unexpected shortfall in revenues. Any significant shortfall in revenues in relation to our expectations could have an immediate and significant effect on our profitability for that quarter and may lead to a reduced market price for our stock.

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Because of the lengthy and unpredictable sales cycle associated with our large PKI transactions, we may not succeed in closing transactions on a timely basis or at all, which would adversely affect our revenues and operating results

Transactions for our PKI solution often involve large expenditures, and the sales cycles for these transactions are often lengthy and unpredictable. Factors affecting the sales cycle include:

- . customers' budgetary constraints;
- . the timing of customers' budget cycles; and
- . customers' internal approval processes.

We may not succeed in closing such large transactions on a timely basis or at all, which could cause significant variability in our revenues and results of operations for any particular period. If our results of operations and cash flows fall below the expectations of securities analysts, our stock price may decline.

A limited number of customers has accounted for a significant percentage of our revenues, which may decline if we cannot keep or replace these customer relationships

Historically, a limited number of customers has accounted for a significant percentage of our revenues. In 1997, three customers accounted for 19%, 12% and 11% of revenues, respectively. In 1998, our three largest customers accounted for 23% of revenues. In 1999, our three largest customers accounted for 31% of revenues, with the largest customer accounting for 24% of revenues. We anticipate that our results of operations in any given period will continue to depend to a significant extent upon revenues from a small number of customers. In addition, we anticipate that such customers will continue to vary over time, so that the achievement of our long-term goals will require us to obtain additional significant customers on an ongoing basis. Our failure to enter into a sufficient number of large licensing agreements during a particular period could have a significant adverse effect on our revenues.

If the e-business security market does not continue to grow, demand for our products and services will be adversely affected

The market for e-business security solutions is at an early stage of development. Continued growth of the e-business security market will depend, in large part, on the following:

- . the continued expansion of Internet usage and the number of organizations adopting or expanding intranets and extranets;
- . the ability of network infrastructures to support an increasing number of users and services;
- . the public recognition of the potential threat posed by computer hackers and other unauthorized users; and

. the continued development of new and improved services for implementation across the Internet, intranets and extranets.

A decline in the growth of this market could reduce demand for our products, adversely affecting our revenues and results of operations.

A breach of security at one of our customers, whether or not due to our products, could harm our reputation and reduce the demand for our products

The processes used by computer hackers to access or sabotage networks and intranets are rapidly evolving. A well-publicized actual or perceived breach of network or computer security at one of our customers, regardless of whether such breach is attributable to our products, or any significant advance in techniques for decoding or "cracking" encrypted information, could adversely affect the market's perception of us and our products, and could have an adverse effect on our reputation and the demand for our products.

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If our products contain errors or bugs, sales of our products would likely decline

Our products may contain errors, failures or bugs that our existing testing procedures have not detected. The errors may become evident at any time during the life of our products. The discovery of any errors, failures or bugs in any products may result in:

- . adverse publicity;
- . product returns;
- . the loss or delay of market acceptance of our products; and
- . third-party claims against us.

Accordingly, the discovery of any errors, failures or bugs would have a significant adverse effect on the sales of our products.

Our revenues may decline if we cannot compete successfully in an intensely competitive market

We target our products at the rapidly evolving market for e-business security solutions. Many of our current and potential competitors have longer operating histories, greater name recognition, larger installed bases and significantly greater financial, technical, marketing and sales resources than we do. As a result, they may be able to react more quickly to emerging technologies and changes in customer requirements, or to devote greater resources to the promotion and sale of their products. In addition, certain of our current competitors in particular segments of the security marketplace may in the future broaden or enhance their offerings to provide a more comprehensive solution competing more fully with our functionality.

Increased competition, as well as consolidation of competitors, could result in lower prices, reduced margins or the failure of our products and services to achieve or maintain market acceptance, any of which could have a serious adverse effect on our business, financial condition and results of operations. See "Business--Competition" for a list of our competitors.

Our business will not be successful if we do not keep up with the rapid changes in our industry

The emerging market for e-business security products and related services is characterized by rapid technological developments, frequent new product

introductions and evolving industry standards. To be competitive, we have to continually improve the performance, features and reliability of our products and services, particularly in response to competitive offerings, and be first to market with new products and services or enhancements to existing products and services. Our failure to develop and introduce new products and services successfully on a timely basis and to achieve market acceptance for such products and services could have a significant adverse effect on our business, financial condition and results of operations.

We may have difficulty managing our expanding operations, which could adversely affect our ability to successfully grow our business

The growth in the size and complexity of our business over the past few years has placed a significant strain on our managerial, operational and financial resources. Our ability to manage future growth, if any, will depend upon our ability to:

- . continue to implement and improve operational, financial and management information systems on a timely basis; and
- . expand, train, motivate and manage our work force.

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Our personnel, systems, procedures and controls may not be adequate to support our operations. The geographic dispersal of our operations, including the separation of our headquarters in Plano, Texas, from our research and development facility in Ottawa, Canada, may make it more difficult to manage our growth.

If we fail to continue to attract and retain qualified personnel, our business may be harmed

Our future success depends upon our ability to continue to attract and retain highly qualified scientific, technical, sales and managerial personnel. Competition for such personnel is intense, particularly in the field of cryptography, and there can be no assurance that we can retain our key scientific, technical, sales and managerial employees or that we can attract, motivate or retain other highly qualified personnel in the future. If we cannot retain or are unable to hire such key personnel, our business, financial condition and results of operations could be significantly adversely affected.

Future acquisitions or investments could disrupt our ongoing business, distract our management and employees, increase our expenses and adversely affect our results of operations

It is possible, as part of our future growth strategy, that we will from time-to-time acquire or make investments in companies, technologies, product solutions or professional services offerings. With respect to these acquisitions, we would face the difficulties of assimilating personnel and operations from the acquired businesses and the problems of retaining and motivating key personnel from such businesses. In addition, these acquisitions may disrupt our ongoing operations, divert management from day-to-day business, increase our expenses and adversely impact our results of operations. Any future acquisitions would involve certain other risks, including the assumption of additional liabilities, potentially dilutive issuances of equity securities and incurrence of debt. In addition, these types of transactions often result in charges to earnings for such items as amortization of goodwill or in-process research and development expenses.

We face risks associated with our international operations and plans for expansion, which, if not managed properly, could have a significant adverse effect on our business, financial condition or results of operations In the future, we may establish additional foreign operations, hire additional personnel and establish relationships with additional partners internationally. This expansion would require significant management attention and financial resources and could have an adverse effect on our business, financial condition and results of operations. Although our international sales currently are primarily denominated in U.S. dollars, we may increasingly denominate sales in foreign currencies in the future. In addition, our international business may be subject to the following risks:

- . difficulties in collecting international accounts receivable;
- . difficulties in obtaining U.S. export licenses, especially for products containing encryption technology;
- . potentially longer payment cycles for customer payments;
- increased costs associated with maintaining international marketing efforts;
- . introduction of non-tariff barriers and higher duty rates;
- . difficulties in enforcement of contractual obligations and intellectual property rights;
- . difficulties managing personnel and operations in remote locations; and
- . increased complexity in global corporate tax structure.

Any one of these could significantly and adversely affect our business, financial condition or results of operations.

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If the laws regarding exports of our products further limit or otherwise restrict our business, we could be prohibited from shipping our products to restricted countries, which would result in a loss of revenues

Some of our products are subject to export controls under laws of the U.S., Canada and other countries. The list of products and countries for which exports are restricted, and the relevant regulatory policies, are likely to be revised from time to time. If we cannot obtain required government approvals under these regulations, we may not be able to sell products abroad or make products available for sale internationally via computer networks such as the Internet. Furthermore, U.S. governmental controls on the exportation of encryption products and technology may in the future restrict our ability to freely export some of our products with the most powerful information security encryption technology. See "Business--Regulatory Matters" for a discussion of our regulatory environment.

We may not be able to protect our intellectual property rights, which could make us less competitive and cause us to lose market share

Our future success will depend, in part, upon our intellectual property rights and our ability to protect these rights. We rely on a combination of patent, copyright, trademark and trade secret laws, nondisclosure agreements, shrink-wrap licenses and other contractual provisions to establish, maintain and protect our proprietary rights. Despite our efforts to protect our proprietary rights, unauthorized third parties may:

- . copy aspects of our products;
- . obtain and use information that we regard as proprietary; or
- . infringe upon our patents.

Policing piracy and other unauthorized use of our products is difficult, particularly in international markets and as a result of the growing use of the Internet. In addition, third parties might successfully design around our patents or obtain patents that we would need to license or design around. Finally, the protections we have obtained may not be sufficient because:

- . some courts have held that shrink-wrap licenses, because they are not signed by the licensee, are not enforceable;
- . our trade secrets, confidentiality agreements and patents may not provide meaningful protection of our proprietary information; and
- . we may not seek additional patents on our technology or products and such patents, even if obtained, may not be broad enough to protect our technology or products.

Our inability or failure to protect our proprietary rights could have a significant adverse effect on our business, financial condition or results of operations.

We have been subject to, and may in the future become subject to, intellectual property infringement claims that could be costly and could result in a diversion of management's attention

As the number of security products in the industry increases and the functionality of these products further overlaps, software developers and publishers may increasingly become subject to claims of infringement or misappropriation of the intellectual property or proprietary rights of others. Surety Technologies, Inc. asserted an unsuccessful patent infringement claim against us in February 1999, and third parties may assert infringement or misappropriation claims against us in the future. Defending or enforcing our intellectual property could be costly and could result in a diversion of management's attention, which could have a significant adverse effect on our business, financial condition or results of operations. A successful claim against us could also have a significant adverse effect on our results of operations for the period in which damages are paid.

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We may lose access to technology that we license from outside vendors, which loss could adversely affect our ability to sell our products

We rely on outside licensors for patent and/or software license rights in encryption technology that is incorporated into and is necessary for the operation of our products. For example, we license encryption technology that is fundamental to our product from RSA Security Inc., which holds a patent for this technology that expires in September 2000. We recently received correspondence from RSA indicating that it believes that, as of November 1999, we were no longer properly licensed to use this patent. While we strongly believe that RSA's assertion is without merit, we cannot assure you of the outcome of our discussions with RSA about this matter. An adverse outcome could subject us to significant additional licensing fees, money damages or other legal relief. In January 2000, RSA filed a complaint against us with respect to this matter but did not serve notice, and subsequently withdrew, the complaint. There can be no assurance that RSA will not institute litigation against us with respect to this matter in the future. In addition, our ability to provide Web server certificates is currently dependent upon a licensing agreement we have with Thawte Consulting (Pty.) of South Africa, which was recently acquired by VeriSign, Inc., one of our primary competitors. Our success will depend in part on our continued ability to have access to such technologies that are or may become important to the functionality of our products. Any inability to continue to procure or use such technology could have a significant adverse effect on our ability to sell some of our products.

Our stock price is volatile and may continue to be volatile in the future.

The trading price of our common stock has been, and is expected to continue to be, highly volatile and may be significantly and adversely affected by factors such as:

- . actual or anticipated fluctuations in our operating results;
- . announcements of technological innovations;
- . new products or new contracts by us or our competitors;
- . developments with respect to patents, copyrights or propriety rights;
- . conditions and trends in the security industry;
- . changes in financial estimates by securities analysts; and
- . general market conditions and other factors.

Nortel Networks is able to exercise substantial influence over all matters requiring stockholder and board approval and could make decisions about our business that conflict with the Interests of other stockholders.

As of March 7, 2000, Nortel Networks Corporation, through its subsidiary, Nortel Networks Inc., beneficially owned approximately 31.8% of our outstanding voting stock and two of our eight directors were representatives of Nortel Networks. Accordingly, Nortel Networks has the ability to exert significant influence over our affairs, including the election of directors and decisions relating to our strategic and operating activities. This concentration of ownership and board representation may have the effect of delaying or preventing a change in control that other stockholders may find favorable.

Provisions of our charter and bylaws may delay or prevent transactions that are in your best interests.

Our charter and bylaws contain provisions, including a staggered board of directors, that may make it more difficult for a third party to acquire us, or may discourage bids to do so. These

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provisions could limit the price that investors might be willing to pay for shares of our common stock and could make it more difficult for a third party to acquire, or could discourage a third party from acquiring, a majority of our outstanding voting stock. Our board of directors also has the authority to issue up to 5,000,000 shares of preferred stock and to determine the price, rights, preferences, privileges and restrictions, including voting rights, of those shares without any further vote or action by the stockholders. The rights of the holders of common stock will be subject to, and may be adversely affected by, the rights of the holders of any preferred stock that may be issued in the future. The issuance of preferred stock could make it more difficult for a third party to acquire, or may discourage a third party from acquiring, a majority of our outstanding voting stock.

#### Year 2000 Impact

We have not experienced any problems with our computer systems relating to such systems being unable to recognize appropriate dates related to the year 2000. We are also not aware of any material problems with our clients or vendors. Accordingly, we do not anticipate incurring material expenses or experiencing any material operational disruptions as a result of any Year 2000 issues.

### ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

## Risk Associated with Interest Rates

Our investment policy states that we will invest our cash reserves, including cash, cash equivalents and marketable investments, in investments that are designed to preserve principal, maintain liquidity and maximize return. We actively manage our investments in accordance with these objectives. Some of these investments are subject to interest rate risk, whereby a change in market interest rates will cause the principal amount of the underlying investment to fluctuate. Therefore, a depreciation in principal value of an investment is possible in situations where the investment is made at a fixed interest rate and the market interest rate then subsequently increases. We try to manage this risk by maintaining our cash, cash equivalents and marketable investments with high quality financial institutions and investment managers. We also restrict the investments to primarily securities with short-term maturities, such that, at December 31, 1999, the majority of our marketable investments had maturities of less than six months from that date. As a result, we believe that our exposure to market risk related to interest rates is minimal.

The following table presents the cash, cash equivalents and marketable investments that we held at December 31, 1998 and 1999, that would have been subject to interest rate risk, and the related ranges of maturities as of that date:

#### <TABLE> <CAPTION>

	Dee	cember 31,	1998	December 31, 1999			
		Maturity		Maturity			
	Within 3 Months	3-6 Months	>6 Months	Within 3 Months	3-6 Months	>6 Months	
			(in tho	usands)			
<s></s>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	
Investments classified as cash and cash equivalents Investments classified as marketable	\$ 109	\$	\$	\$11,540	\$	\$	
investments	27,800	45,191	4,364	34,590	28,728	6,481	
Total amortized cost	\$27,909	\$45,191 ======	\$4,364 ======	\$46,130 ======	\$28,728	\$6,481 ======	
Fair Value	\$27,909 ======	\$45,191 ======	\$4,364 ======	\$46,112 ======	\$28,706 ======	\$6,436 =====	

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Risk Associated with Exchange Rates

We are subject to foreign exchange risk as a result of exposures to changes in currency exchange rates, specifically between the United States and Canada, the United Kingdom, Germany and Switzerland. However, this exposure is considered to be minimal due to the fact that the United Kingdom, German and Swiss operations are not significant, and the Canadian operations are naturally hedged against exchange rate fluctuations since both revenues and expenses are denominated in Canadian dollars. Therefore, an unfavorable change in the exchange rate for the Canadian subsidiary would result in lower revenues when translated into U.S. dollars, but the expenses would be lowered in a corresponding fashion. As a result, we do not engage in formal hedging activities, but we do periodically review the potential impact of this risk to ensure that the risk of significant potential losses remains minimal.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Our consolidated financial statements together with the related notes and the report of Deloitte & Touche LLP, independent auditors, are set forth in the Index to Consolidated Financial Statements at Item 14 and incorporated herein by this reference.

# ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

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# PART III

Certain information required by Part III is omitted from this Annual Report as we intend to file our definitive Proxy Statement for our Annual Meeting of Stockholders to be held on April 27, 2000, pursuant to Regulation 14A of the Securities Exchange Act of 1934, as amended, not later than 120 days after the end of the fiscal year covered by this Report, and certain information included in the Proxy Statement is incorporated herein by reference.

ITEM 10. DIRECTORS AND EXECUTIVE OFFICERS OF THE REGISTRANT

- (a)Executive Officers and Directors -- The information in the section entitled "Executive Officers and Directors of the Registrant" in Part I hereof is incorporated herein by reference.
- (b)Directors -- The information in the section entitled "Directors and Nominees for Director" in the Proxy Statement is incorporated herein by reference.

The disclosure required by Item 405 of Regulation S-K is incorporated by reference to the section entitled "Section 16(a) Beneficial Ownership Reporting Compliance" in the Proxy Statement.

ITEM 11. EXECUTIVE COMPENSATION

The information in the sections entitled "Compensation of Executive Officers", "Director Compensation" and "Compensation Committee Interlocks and Insider Participation" in the Proxy Statement is incorporated herein by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The information in the section entitled "Security Ownership of Certain Beneficial Owners and Management" in the Proxy Statement is incorporated herein by reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

The information in the section entitled "Certain Transactions" in the Proxy Statement is incorporated herein by reference.

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PART IV

ITEM 14. EXHIBITS, FINANCIAL STATEMENTS AND REPORTS ON FORM 8-K

(a) The following documents are filed as part of this Form 10-K:

 Consolidated Financial Statements. The following consolidated financial statements of Entrust Technologies Inc. are filed as part of this Form 10-K on the pages indicated:

<TABLE> <CAPTION>

	Page
ENTRUST TECHNOLOGIES INC.	
<s></s>	<c></c>
Independent Auditors' Report	45
Consolidated Balance Sheets as of December 31, 1998 and 1999 Consolidated Statements of Operations for the years ended December 31,	46
1997, 1998 and 1999	47
Consolidated Statements of Shareholders' Equity and Comprehensive Income	
for the years ended December 31, 1997, 1998 and 1999	48
Consolidated Statements of Cash Flows for the years ended	
December 31, 1997, 1998 and 1999	50
Notes to Consolidated Financial Statements	51

  |

- Schedules other than the ones listed above are omitted as the required information is inapplicable or the information is presented in the consolidated financial statements or related notes.
- Exhibits. The exhibits listed in the Exhibit Index immediately preceding such Exhibits are filed as part of this Annual Report on Form 10-K.
- (b) Reports on Form 8-K

No reports on Form 8-K were filed in the quarter ended December 31, 1999.

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# SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, on the 13th day of March, 2000.

> Entrust Technologies Inc. (Registrant)

> > /s/ John A. Ryan

John A. Ryan President and Chief Executive Officer

Title

\_ \_ \_ \_ \_

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities indicated on the 13th day of March, 2000.

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By: \_

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9/17/2016 https://www.sec.g	00/Archives/edgar/data/1031263/000093000100000329/0000930001-00-00032
/s/ John A. Ryan	President, Chief Executive Officer and Director (Principal Executive Officer)
John A. Ryan	
/s/ David L. Thompson	Senior Vice President and Chief Financial Officer (Principal Financial and Accounting
David L. Thompson	Officer)
/s/ F. William Conner	Chairman of the Board
F. William Conner	
/s/ Butler C. Derrick, Jr.	Director
Butler C. Derrick, Jr. /s/ Jawaid Ekram	 Director
Jawaid Ekram	
/s/ Terrell B. Jones	Director
Terrell B. Jones	
/s/ Michael P. Ressner	Director
Michael P. Ressner	
/s/ Christopher M. Stone	Director
Christopher M. Stone	
/s/ James A. Thomson	Director
James A. Thomson	

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# INDEPENDENT AUDITORS' REPORT

To the Directors and Shareholders of Entrust Technologies Inc:

We have audited the consolidated balance sheets of Entrust Technologies Inc. as of December 31, 1998 and 1999, and the related consolidated statements of operations, shareholders' equity and comprehensive income, and cash flows for each of the three years in the period ended December 31, 1999. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such consolidated financial statements present fairly, in all material respects, the financial position of Entrust Technologies Inc. at December 31, 1998 and 1999, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 1999, in

conformity with generally accepted accounting principles.

/s/ DELOITTE & TOUCHE LLP Dallas, Texas

January 28, 2000

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# ENTRUST TECHNOLOGIES INC.

# CONSOLIDATED BALANCE SHEETS (in thousands of dollars, except share data)

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<TABLE>

<capiion></capiion>	Decembe	
		1999
<s> ASSETS</s>	<c></c>	
Current assets: Cash and cash equivalents Short-term marketable investments Accounts receivable (net of allowance for doubtful accounts of \$753 in 1998 and \$703 in 1999) Other receivables Prepaid expenses.	77,355 14,013 2,102	67,394 21,817 1,994 2,201
Total current assets Long-term marketable investment Goodwill, net Property and equipment, net Other long-term assets	98,176  3,210 4,874	115,283 2,405 2,948 6,904 2,980
Total assets	\$107,829 ======	-
LIABILITIES AND SHAREHOLDERS' EQUITY Current liabilities: Accounts payable Accrued liabilities Deferred income Due to related party	4,992 7,791	9,169 10,761 799
Total current liabilities Long-term debt and other long-term liabilities	20,738	27,365 
Total liabilities		27,365
<pre>Shareholders' equity:   Preferred stock, par value \$0.01 per share; none issued   and outstanding   Common stock, par value \$0.01 per share; 42,492,681 and   45,203,448 issued and outstanding shares at December 31,</pre>		
43,203,4481950ed and outstanding shares at becember 31,1998 and 1999, respectivelySpecial voting stock, par value \$0.01 per share;exchangeable; 5,157,289 issued and outstanding sharesAdditional paid-in capitalUnearned deferred compensationAccumulated other comprehensive lossAccumulated deficit	52 112,483 (635) (89)	52 122,883 (439) (535)
Total shareholders' equity	87,059	103,155

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Total liabilities and shareholders' equity...... \$107,829 \$130,520

# </TABLE>

See accompanying notes to consolidated financial statements

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#### ENTRUST TECHNOLOGIES INC.

# CONSOLIDATED STATEMENTS OF OPERATIONS (in thousands of dollars, except share and per share data)

# <TABLE>

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<caption></caption>	Year Ended December 31,					
	1997	1998	1999			
<s> Revenues:</s>		<c></c>				
License Services and maintenance		12,215	23,732			
Total revenues		48,988				
Cost of revenues:						
License Services and maintenance	502 4,414	1,985 7,546	2,286 13,016			
Total cost of revenues		9,531				
Gross profit	20,090		69,912			
Operating expenses: Sales and marketing Research and development General and administrative Acquired in-process research and development and goodwill amortization	11,193 5,692 3,695	26,802 12,840 5,046 20,564	40,900 16,605 7,752			
Total operating expenses	20,580		65,969			
Income (loss) from operations Interest income	(490)	(25,795)	3,943			
<pre>Income (loss) before income taxes (Provision) benefit for income taxes</pre>	233	(23,988) 160	7,719 (1,800)			
Net income (loss)		\$ (23,828)	\$ 5,919			
Net income (loss) per share: Basic Diluted Weighted average common shares used in per share computations:	\$ 0.02 \$ 0.01	\$ (0.68) \$ (0.68)	\$ 0.13 \$ 0.11			
Basic Diluted 						

  |  |  |See accompanying notes to consolidated financial statements

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# ENTRUST TECHNOLOGIES INC.

# CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY AND COMPREHENSIVE INCOME for the years ended December 31, 1997, 1998 and 1999 (in thousands of dollars, except share data)

# <TABLE>

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<caption></caption>			Series A		Series B		Series B Non-Voting			
Special Stock Additio		tock	Common St	ock	Common Stock		Common Stock		Voting	
Paid-In Amount Capital		Amount	Shares		Shares	Amount	Shares	Amount	Shares	
·										
<c> <c> Balances at</c></c>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>	
December 31, 1996 \$ \$		\$		\$		\$		\$		
Series A common shares issued (173) Special Voting			20,300,000	203						
shares issued 77 (66) Series B common									7,700,000	
shares issued 15,302 Series B Non-					221,052	2				
Voting common shares issued 2,696 Share capital							38,948			
issuance costs (2,015) Change in shareholder's										
net investment										
Comprehensive income (loss): Net income										
Translation adjustment										
Balances at December 31, 1997 77 15,744 Series A common shares issued on option			20,300,000	203	221,052	2	38,948		7,700,000	

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exercise			14,346						
31 Unearned compensation related to									
stock options granted 784									
Deferred compensation earned									
 Series A common shares									
converted	20,314,346	203	(20,314,346)	(203)					
Series B common shares									
converted (129) Special voting shares	13,063,836	131			(221,052)	(2)	(38,948)		
exchanged (2,542,711) (25) Redeemable series A common		25							
shares issued and converted 17,001	1,167,288	12							
Common shares issued 86,346	5,400,000	54							
Common shares issuance costs (7,302) Common shares									
issued on option exercise 8	4,500								
Comprehensive income (loss): Net loss									
 Translation									
adjustment									
Balances at December 31,									
1998 52 112,483 Deferred	42,492,681	425							5,157,289
compensation earned  Common shares									
issued on option exercise 8,388	2,636,482	27							
Tax reduction from non-									

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qualified option									
exercises 708 Employee Stock Purchase Plan									
shares issued 1,304 Comprehensive	74,285								
income (loss): Net income									
Translation adjustment									
 D 1 /									
Balances at December 31,									
1999 \$52 \$122,883	45,203,448	\$452		\$		\$		\$	5,157,289
	========	====	==========	=====	=======	====	======	====	=========

</TABLE>

See accompanying notes to consolidated financial statements

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# <PAGE>

# ENTRUST TECHNOLOGIES INC.

CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY AND COMPREHENSIVE INCOME--(Continued) for the years ended December 31, 1997, 1998 and 1999 (in thousands of dollars, except share data)

<TABLE> <CAPTION>

	Unearned Deferred Compensation	Accumulated Other Comprehensive Loss	Income	Comprehensive Income (Loss)	e Total Shareholders' Equity
<s></s>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>
Balances at December 31,					
1996	\$	\$	\$ (60)		\$ (60)
Series A common shares issued					30
Special Voting shares issued					11
Series B common shares issued					15,304
Series B Non-Voting common shares issued					2,696
Share capital issuance					( )
costs					(2,015)
Change in shareholder's net investment			(1,803)		(1,803)
Comprehensive income (loss):					
Net income			514	\$ 514	514
Translation		( . <b>-</b> )			( )
adjustment		(15)		(15)	(15)

011	7/2018	2

Total comprehensive income				\$ 499	
Balances at December 31,				=======	
1997 Series A common shares		(15)	(1,349)		14,662
issued on option					
exercise					31
Unearned compensation related to stock					
options granted Deferred compensation	(784)				
earned Series A common shares	149				149
converted Series B common shares					
converted Special voting shares					
exchanged Redeemable series A common shares issued					
and converted					17,013
Common shares issued Common shares issuance					86,400
costs Common shares issued on					(7,302)
option exercise Comprehensive income (loss):					8
Net loss			(23,828)	\$(23,828)	(23,828)
Translation adjustment		(74)		(74)	(74)
<u> </u>					
Total comprehensive					
loss				\$(23,902) ======	
Balances at December 31,		(80)			07 050
1998 Deferred compensation	(635)	(89)	(25,177)		87,059
earned Common shares issued on	196				196
option exercise Tax reduction from non- qualified option					8,415
exercises Employee Stock Purchase					708
Plan shares issued Comprehensive income (loss):					1,304
Net income Translation			5,919	\$ 5,919	5,919
adjustment		(446)		(446)	(446)
Total comprehensive	<b></b>	<b></b>		<b></b>	
income				\$    5,473 =======	
Balances at December 31,					
1999	\$(439) =====	\$(535) =====	\$(19,258) ======		\$103,155 ======

</TABLE>

See accompanying notes to consolidated financial statements

# ENTRUST TECHNOLOGIES INC.

# CONSOLIDATED STATEMENTS OF CASH FLOWS (in thousands of dollars)

# <TABLE> <CAPTION>

<caption></caption>	Year Ended December 31,				
		aed December			
		1998	1999		
<s> Cash flows from organizing activities.</s>		<c></c>			
Cash flows from operating activities: Net income (loss) Adjustments to reconcile net income (loss) to net cash provided by (used in) operating activities:	\$ 514	\$ (23,828)	\$ 5,919		
Depreciation and amortizationAdjustment to cumulative translation	360	1,261	3,348		
account	(15)	(74)	(446)		
Deferred income taxes	(743)	(143)			
Deferred compensation earnedAcquired in-process research and		149			
development Changes in operating assets and liabilities:		· · · ·			
Increase in accounts receivable	(4,665)	(6,212)	(7,804)		
Decrease (increase) in other receivables	(2,089)	(125)	108		
Increase in prepaid expenses Decrease (increase) in other assets	(400)	(178)	(1,207) 178		
Increase (decrease) in accounts payable		4,755	(551)		
Increase in accrued liabilities	1,121	1,998	4.175		
Increase in deferred income		4,573			
Increase (decrease) due to related party	-	(2,588)	-		
Net cash provided by (used in) operating activities	(2,139)	(708)	7,784		
Purchases of property and equipment Increase in goodwill and other long-term	3,695	76,446 (3,791)	109,786 (4,421)		
assets Payment on purchase of r3 Security Engineering		(393)	(3,149)		
AG		(4,391)			
Net cash used in investing activities	(9,508)	(77,317)	(14)		
Cash flows from financing activities:					
Proceeds from long-term debt	1,449				
Repayment of long-term debt Transfers to Nortel Proceeds and tax reduction from exercise of stock options and employee stock purchase	(1,803)	(-) /	(32)		
plan		39	10,427		
Proceeds from issuance of 5,400,000 common shares, net of issuance costs Proceeds from issuance of common and special		79,098			
voting stock, net of issuance costs	16,026				
Net cash provided by financing activities		77,712	10,395		
Net change in cash and cash equivalents Cash and cash equivalents at beginning of year	4,025	(313)	18,165		

https://www.sec.gov/Archives/edgar/data/1031283/000093066100000529/0000930661-00-000529.txt

	==	======	==	======	===	=====
Issuance of redeemable Series A common stock (and subsequent conversion into common stock) related to the acquisition of r3 Security Engineering AG	\$		\$	17,013	\$	
Non-cash investing and financing activities:	==	=====	==	======	===	=====
Cash and cash equivalents at end of year	\$	4,025	\$	3,712	\$ 2	1,877

</TABLE>

See accompanying notes to consolidated financial statements

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# ENTRUST TECHNOLOGIES INC.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (in thousands of dollars, except share and per share data)

1. Company Background

In January 1994, Nortel Networks Corporation, and its subsidiary Nortel Networks Inc. (collectively "Nortel"), established the Secure Networks group (the "Division") to pursue the development and sales of public key infrastructure ("PKI") products. PKI products combine powerful public key data encryption technology with transparent, life cycle digital certificate management to enable users to communicate securely over public and private networks.

During 1996, Nortel announced its intention to create a separate company, Entrust Technologies Inc. (the "Company") consisting of the operations of the Division. The Company was incorporated in December 1996 with nominal share capital, all of which was contributed by Nortel. At the close of business on December 31, 1996, Nortel transferred to the Company certain of the assets and liabilities, intellectual property, rights, licenses and contracts of the Division.

In exchange, Nortel received 20,300,000 shares of the Company's Series A common stock, 7,700,000 shares of the Company's Special Voting stock, and cash consideration. At the close of business on December 31, 1996, the Company issued 260,000 shares of its Series B common stock in a private placement for \$100 per share less underwriting costs and commissions of \$7.75 per share. After the completion of the private placement, Nortel owned approximately 73.0% of the outstanding shares of the Company's voting stock assuming conversion of the Series B common stock and Series B Non-Voting common stock into an aggregate of 13,063,836 shares of Series A common stock.

On August 21, 1998, the Company closed its initial public offering ("IPO"), issuing 5,400,000 shares of its Common stock at an initial public offering price of \$16 per share. The net proceeds to the Company from the offering, after deducting underwriting discounts and commissions and offering expenses incurred by the Company, were approximately \$79.1 million. Immediately following the IPO, Nortel owned approximately 55.3% of the Company's voting stock.

At December 31, 1999, Nortel owned approximately 46.8% of the Company's voting stock.

# 2. Significant Accounting Policies

Consolidation

The consolidated financial statements of the Company include the accounts

of its majority-owned Canadian subsidiary, Entrust Technologies Limited, its wholly-owned U.K. subsidiary, Entrust Technologies (UK) Limited, its wholly-owned German subsidiary, Entrust Technologies GmbH, and, its wholly-owned Swiss subsidiaries, r/3/ Security Engineering AG and Entrust Technologies (Switzerland) Ltd. Liab. Co. The minority interest in the Canadian subsidiary has been insignificant to date. All significant intercompany transactions and accounts are eliminated in consolidation.

#### Translation of foreign currencies

The accounts of the Company's subsidiaries have been translated into U.S. dollars. Assets and liabilities have been translated at the exchange rates in effect at the balance sheet date. Revenues, expenses and cash flow amounts are translated at average rates for the period. The resulting translation adjustments are included in comprehensive income as a separate component of shareholders' equity. Gains and losses from foreign currency transactions are included in the determination of net income and are not material.

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#### ENTRUST TECHNOLOGIES INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

The Company does not use derivative financial products for hedging or speculative purposes and, as a result, is exposed to currency fluctuations. However, the Company transacts the majority of its international sales in U.S. dollars, except for Canada where the Company has both significant costs and revenues, which the Company believes mitigates the potential impact of currency fluctuations.

The Company is subject to foreign currency exchange risk in the form of exposures to changes in currency exchange rates between the United States and Canada, Germany, Switzerland and the United Kingdom. Management periodically reviews the potential financial impact of this risk and currently believes that the Company is not subject to significant potential losses.

#### Revenue recognition

The Company generates revenues primarily from licensing the rights to its software products to end-users and from sublicense fees from resellers. The Company also generates revenues from consulting, training and post-contract support ("maintenance"). The Company adopted, effective January 1, 1998, Statement of Position ("SOP") No. 97-2, "Software Revenue Recognition". Such adoption had no effect on the Company's method of recognizing revenues. Prior to 1998, the Company's revenue recognition policy was in accordance with the provisions of the preceding authoritative guidance provided by SOP 91-1 "Software Revenue Recognition".

Revenues from perpetual software license agreements are recognized as revenue upon receipt of an executed license agreement, or an unconditional order under an existing license agreement, and shipment of the software, if there are no significant remaining vendor obligations, collection of the receivable is probable and payment is due within twelve months.

Revenues from maintenance services are recognized ratably over the term of the maintenance period, which is typically one year. If maintenance services are included free of charge or discounted in a license agreement, such amounts are unbundled from the license fee at their fair market value based upon the value established by independent sales of such maintenance to customers. Revenues from the sale of Entrust.net Web server certificates are also recognized ratably over the term of the certificate (typically one to two years).

Consulting and training revenues are generally recognized as the services are performed. Consulting services are typically performed under separate service agreements and are usually performed on a time and materials basis. Such services primarily consist of implementation services related to the installation and deployment of the Company's products and do not include significant customization or development of the underlying software code.

The Company uses the percentage of completion method to account for large custom development contracts. Under this method, the Company recognizes revenue and profit as the work on the contract progresses. Revenues are recognized by applying the percentage of the total cost incurred to date divided by the total estimated contract cost to the total contract value, and any projected loss is recognized immediately. The total project cost estimates are reviewed on a regular basis.

# Cost of revenues

Cost of licenses includes the cost of media, product packaging, documentation and other production costs and third-party royalties.

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#### ENTRUST TECHNOLOGIES INC.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

Cost of services and maintenance consists primarily of salaries, benefits and allocated overhead costs related to consulting, training and customer support personnel, including the cost of third-party consultants engaged by the Company.

# Research and development costs

In applying Statement of Financial Accounting Standards ("SFAS") No. 86, "Accounting for the Costs of Computer Software to be Sold, Leased, or Otherwise Marketed", the Company has defined attainment of technological feasibility as completion of a working model. The period of time beginning with the establishment of a working model and ending when a product is offered for sale is typically very short. Accordingly, costs eligible for capitalization have been insignificant. To date, the Company has not capitalized any internal software development costs and has capitalized, in limited circumstances, costs of software development by third-party contractors.

#### Cash and cash equivalents

The Company considers all highly liquid investments with original maturities of three months or less to be cash equivalents. The Company's cash and cash equivalents are maintained with a bank and a brokerage institution.

#### Marketable investments

Marketable investments consist of investments in a strategic cash management account. This account is invested primarily in highly rated corporate securities, in securities guaranteed by the U.S. government or its agencies and highly rated municipal bonds primarily with a remaining maturity of not more than 12 months. The Company has the intent and ability to hold all investments until maturity. Therefore, all such investments are classified as held to maturity investments and stated at amortized cost. At December 31, 1998 and 1999, the amortized cost of the Company's investments approximated fair value. The Company's marketable investments consist of the following:

<table> <caption></caption></table>	December	31, 1998	D	ecember 31,	1999
			Total Amortized	Securities Within One	Maturity of Securities Greater Than One Year
<s></s>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>
U.S. government agency debt securities Corporate debt		\$ 7,825	\$ 8,962	\$ 8,962	\$
securities	69,530	69,530	60,837	58,432	2,405
	\$77,355	\$77,355 ======	\$69,799 ======	\$67,394 ======	\$2,405 ======

## </TABLE>

#### Accounts receivable

The Company's customer base consists primarily of large, well-established companies or government agencies. Five customers accounted for approximately 45% and 47% of accounts receivable as of December 31, 1998 and 1999, respectively. Two customers accounted for 18% and 13%, respectively, of accounts receivable at December 31, 1999. The Company performs ongoing

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#### ENTRUST TECHNOLOGIES INC.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

credit evaluations of its customers, and generally, does not require collateral from its customers to support accounts receivable. Requests to extend significant credit to customers are reviewed and approved by senior management. The Company maintains an allowance for potential losses due to credit risk, and believes that the allowance for losses is adequate. The following table summarizes the changes in the allowance for doubtful accounts:

#### <TABLE> <CAPTION>

	Dece	ember 3	31,
	1997	1998	1999
<\$>		 <c></c>	
Allowance for doubtful accounts, beginning of year			
Additional provision			426
Amounts written-off		(113)	(476)
Allowance for doubtful accounts, end of year	\$416	\$753	\$703
	====	====	====

# </TABLE>

# Other receivables

Other receivables include federal income tax and other tax refunds of \$973 and \$166 at December 31, 1998 and 1999, respectively. Other receivables also includes work-in-process relating to a long-term percentage-of-completion contract of \$826 and \$1,470 at December 31, 1998 and 1999, respectively.

#### Property and equipment

Property and equipment is stated at cost. Depreciation is calculated generally using the straight-line method over the estimated useful lives of the assets. The expected useful lives of the furniture and fixtures, computer and telecom equipment and software is three to five years and the remaining term of the facility lease for leasehold improvements.

When assets are sold or retired, the cost and related accumulated depreciation are removed from the accounts and any resulting gain or loss is included in operations. Maintenance and repairs are charged to operations as incurred.

Assets are periodically reviewed for impairment on the basis of undiscounted cash flows. If the cash flows are less than the asset's carrying value, the asset is written down to its fair value.

### Goodwill and other assets

Goodwill is stated net of accumulated amortization of \$356 and \$1,068 at December 31, 1998 and 1999, respectively. Goodwill is being amortized on a straight-line basis over five years. Included in other long-term assets are investments, at cost, of \$393 at December 31, 1998 and 1999, which represents a 10% ownership interest in Entrust Japan, and \$1,300 at December 31, 1999, which represents a 2% interest in a privately-owned company; both these investees are customers of the Company. Other long-term assets also include costs incurred of \$1,287 at December 31, 1999 primarily for licenses of technology used by the Company to provide services. These costs are amortized straight-line over three to four years and are stated net of accumulated amortization of \$112 at December 31, 1999.

#### Income taxes

The Company uses the asset and liability method to account for income taxes. Deferred income tax assets and liabilities are recognized for the future tax consequences attributable to differences

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### ENTRUST TECHNOLOGIES INC.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

between the carrying amounts of existing assets and liabilities for accounting purposes, and their respective tax bases. Deferred income tax assets and liabilities are measured using statutory tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred income tax assets and liabilities of a change in statutory tax rates is recognized in net income in the year of change. A valuation allowance is recorded for those deferred income tax assets whose recoverability is not sufficiently likely.

# Stock-based compensation

Stock-based compensation arising from stock option grants is accounted for by the intrinsic value method under Accounting Principles Board ("APB") Opinion No. 25. Statement of Financial Accounting Standards ("SFAS") No. 123 encourages (but does not require) the cost of stock-based compensation arrangements with employees to be measured based on the fair value of the equity instrument awarded. As permitted by SFAS No. 123, the Company applies APB Opinion No. 25 to its stock-based compensation awards to employees and discloses in Note 8 the required pro forma effect on net income and earnings per share. Net income (loss) per share

Basic net income (loss) per share is computed by dividing the net income (loss) by the weighted average number of shares of Common stock of all classes outstanding during the period. Diluted net income (loss) per share is computed by dividing the net income (loss) by the weighted average number of shares of Common stock and potential Common stock outstanding, and when dilutive, exchangeable Special Voting stock on an as-if exchanged basis, and options to purchase Common stock using the treasury stock method. The dilutive effect of the exchangeable Special Voting stock and the options to purchase Common stock are excluded from the computation of diluted net income (loss) per share if their effect is antidilutive. For the year ended December 31, 1998, the antidilutive effects excluded from the diluted net loss per share computation were 6,767,673 shares due to the exchangeable Special Voting stock.

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# ENTRUST TECHNOLOGIES INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

Net income (loss) per share has been calculated as follows:

<TABLE>

<caption></caption>	December 31,				
	1997 1998				
<s></s>		<c></c>			
Net income (loss) available to common shareholders (in thousands)		\$ (23,828)			
Weighted average common shares outstanding: Basic:					
Basic weighted average common shares outstanding	30,700,000	35,254,735			
Basic net income (loss) per share			\$ 0.13		
Diluted: Basic weighted average common shares outstanding	30,700,000	35,254,735	43,846,922		
Exchange rights on Special Voting stock Additional conversion rights of Series B	7,700,000	N/A	5,157,289		
Voting and Non-Voting common stock Net effect of dilutive options using the		N/A			
treasury stock method	679,136	N/A			
Subtotal	11,042,972	N/A	10,955,759		
Diluted weighted average common shares outstanding		35,254,735			
Diluted net income (loss) per share	\$ 0.01		\$ 0.11		

#### </TABLE>

Concentration of credit risk

Financial instruments that potentially subject the Company to interest rate and credit risk consist principally of cash equivalents, marketable investments and accounts receivable. The Company has investment policies that limit the amount of credit exposure to any one issuer and restrict placement of these investments to issuers evaluated as credit worthy. The Company maintains its cash equivalents, and marketable investments, with high quality financial institutions and investment managers. The Company performs periodic reviews of the credit standing of its investments and the financial institutions managing those investments.

### Recent pronouncements

In June 1998, the Financial Accounting Standards Board issued SFAS No. 133, "Accounting for Derivative Instruments and Hedging Activities" ("SFAS No. 133"), which establishes accounting and reporting standards for derivative instruments. SFAS No. 133 is effective beginning in 2001. The Company currently does not use derivative financial products for hedging or speculative purposes and, as a result, does not anticipate any impact on the financial statements.

In December 1998, the AICPA issued SOP No. 98-9, "Modifications of SOP 97-2, Software Revenue Recognition, with Respect to Certain Transactions" ("SOP No. 98-9"). SOP No. 98-9 requires recognition of revenue using the "residual method" in a multiple-element software arrangement, whereby the total fair value of undelivered elements is deferred and recognized in accordance with the provisions of SOP No. 97-2, "Software Revenue Recognition". The Company will be required to implement the provisions of SOP No. 98-9 beginning in 2000. The Company does not expect the adoption of SOP No. 98-9 to have a material impact on its results of operations.

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#### ENTRUST TECHNOLOGIES INC.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

#### Use of estimates

The preparation of the consolidated financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

# 3. Acquisition of r/3/ Security Engineering AG and Acquired In-Process Research and Development

On June 8, 1998, the Company completed the acquisition of r/3/ Security Engineering AG ("r/3/"), a company based in Zurich, Switzerland which provides consulting, applied research and product development services related to commercial security and encryption solutions. The Company acquired all the outstanding shares of r/3/ for an aggregate purchase price of \$23,774, which included approximately \$4,391 in cash, \$17,013 representing 1,167,288 shares of Redeemable Series A common stock (subsequently converted into Common stock upon the closing of the Company's initial public offering), approximately \$994 in assumed net liabilities and acquisition expenses, and approximately \$1,376 of adjustments to the June 8, 1998 opening balance sheet of r/3/ to record the acquired assets and liabilities at fair value. This acquisition was accounted for under the purchase method of accounting. In connection with the purchase price allocation, the Company obtained an independent appraisal of the intangible assets which indicated approximately \$20,208 of the acquired intangible assets consisted of inprocess product development. The development of these projects had not reached technological feasibility and the technology had no alternative future use. Further, management estimated that related development costs would continue to be incurred and, accordingly, the \$20,208 was included as an expense in the consolidated statement of operations for the year ended December 31, 1998. Goodwill of \$3,566 and \$450 was recorded as a result of this acquisition, in 1998 and 1999, respectively.

The following unaudited pro forma data summarize the combined results of operations in 1998 of Entrust Technologies Inc. and r/3/ as if the acquisition had taken place as of the beginning of the year, and accordingly, excludes the \$20,208 write-off of in-process research and development in 1998 as it would have been a charge to beginning retained earnings, and includes a full year of goodwill amortization.

<TABLE> <CAPTION>

	Year	Ended December	31,
		1998	
<s></s>	<c></c>		
Revenues		\$50,589	
Net loss		====== (4,923) ======	
Basic and diluted net loss per share		(0.14)	
		======	

</TABLE>

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# ENTRUST TECHNOLOGIES INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

# 4. Property and Equipment

Property and equipment, at cost, consist of the following:

## <TABLE> <CAPTION>

	December 31,		
	1998	1999	
<s> Computer and telecom equipment Furniture and fixtures Leasehold improvements Internal-use software</s>		<c> \$ 4,947 2,146 2,143 1,095</c>	
Less: accumulated depreciation and amortization	6,697 (1,823)	10,331 (3,984)	
Subtotal Assets to be placed in service	4,874	6,347 557	

Total property and equipment, net	. \$ 4,874	\$ 6,904
	======	======

# 5. Accrued Liabilities

Accrued liabilities consist of the following: <CAPTION>

	Decembe	r 31,
	1998	1999
Payroll and related benefits Withholding taxes payable for stock options exercised Other		2,075 1,999

</TABLE>

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# ENTRUST TECHNOLOGIES INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

## 6. Income Taxes

The following table presents the U.S. and foreign components of income (loss) before income taxes and the provision for income taxes.

<TABLE> CAPTIONS

<b>CAP</b>	I	т	υ	IN	~

AFIIUN>	Year Ended December 31,		
	1997	1998	1999
<s></s>		<c></c>	
Income (loss) before income taxes United States Foreign		\$(22,108) (1,880)	3,448
		\$(23,988) ======	\$ 7,719
(Provision) benefit for income taxes Current:			
Federal State and local Foreign	(76) (49)	79 (202)	(70) (176)
		17	
Deferred:			
FederalState and local		(52) 7	(360)
Foreign			(318)
	743	143	(867)

Tax equivalent related to non-qualified option exercises (credited to additional paid-in				
capital)				(708)
Total (provision) benefit for income taxes	\$ 281 =====	 \$ ===	160	\$(1,800) ======

# </TABLE>

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# ENTRUST TECHNOLOGIES INC.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

A reconciliation between income taxes computed at the federal statutory rate and income tax (provision) benefit is shown below:

# <TABLE>

<CAPTION>

APTION>			cemb	Ended er 31	,	
			19		1999	)
<s></s>	 <c< th=""><th>&gt;</th><th></th><th></th><th></th><th></th></c<>	>				
<pre>Income tax (provision) benefit at federal statutory rate State and local taxes, net of federal benefits Foreign earnings benefit (tax) at different</pre>	\$				\$ (2,6 (1	
rate Acquired in-process research and development and other expenses (not deductible) deductible for		15		80	(2	26)
<pre>tax purposes Foreign research and development tax credits Tax write-off of intercompany investment in and</pre>				,913) 	3,3 1,9	
advances to foreign subsidiary Valuation allowances on future benefits of tax					10,4	72
losses and credits available			(1	,220) 	(14,4	98)
Total (provision) benefit for income taxes	\$ ==	281 ====	\$ ===:	160 ====	\$ (1,8 =====	800) ===

# </TABLE>

Deferred income taxes represent the net tax effects of (a) temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes, and (b) net operating loss (NOL) and tax credit carry-forwards. The tax effects of significant items comprising the Company's net deferred tax benefits (liabilities) are as follows:

#### <TABLE> <CAPTION>

	December 31,			,
	19	98 98	19	99
<\$>	 <c></c>		 <c></c>	
Current asset: Accruals not currently deductible Deferred income currently taxable			\$	256 597
Total		583		853

-----

(34)	2,382
2,527	19,446
2,493	21,828
-	22,681 (22,681)
\$ 867 ======	\$ \$
	2,493 3,076

## </TABLE>

United States and foreign NOL and tax credit carry-forwards include \$5,974 at December 31, 1999 related to NOL carry-forwards resulting from the exercise in 1999 of non-qualified stock options with a corresponding amount included in the valuation allowance, the tax benefit of which, when recognized, will be credited to additional paid-in capital.

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# ENTRUST TECHNOLOGIES INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

As at December 31, 1999, the Company has available the following income tax carry-forwards to reduce future income tax liabilities: <TABLE> <CAPTION>

	Amount	Period Expiring
<s></s>	<c></c>	<c></c>
Net operating losses (tax benefits): United States Foreign	-	2018-2019 2005-2006
	16,206	2007 2000
Foreign research and development tax credits		2007-2009
	\$19,446 ======	

</TABLE> 7. Capital Stock

On January 24, 1997, the Board of Directors declared a 10-for-1 stock split effected in the form of a stock dividend, payable to the shareholders of Series A common stock and Special Voting stock. On June 18, 1998, the Board of Directors approved an increase in the authorized number of shares of Series A common stock from 15,000,000 to 100,000,000, Preferred stock from 500,000 to 5,000,000 and Special Voting stock from 2,500,000 to 15,000,000.

The Board of Directors also approved on June 18, 1998 a 4-for-1 stock split, effected in the form of a stock dividend payable to the shareholders of Series A common stock and Special Voting stock. In addition, the Board of Directors approved an amendment to the Company's Articles of Incorporation, which redesignated the Series A common stock as Common stock effective upon the completion of the Company's initial public offering. The consolidated financial statements reflect the increase in the number of authorized shares and these stock splits, on a retroactive basis.

Concurrent with the closing of the initial public offering on August 21, 1998, each of the 20,314,346 outstanding shares of the Company's Series A common stock and each of the 1,167,288 outstanding shares of the Company's Redeemable Series A common stock were automatically converted into one share of Common stock. Also, the 260,000 outstanding shares of the Company's Series B (including non-voting) common stock were automatically converted into 13,063,836 shares of Common stock. Furthermore, the majority shareholder of the Company exercised its option to exchange 2,542,711 shares of the Company's Special Voting stock into the equivalent number of shares of Common stock. After this exchange, the remaining number of issued and outstanding Special Voting shares was 5,157,289.

#### Common Stock

The holders of Common stock are entitled to one vote per share and are entitled to dividends when and if declared by the Board of Directors of the Company. The Company is authorized to issue up to 100,000,000 shares of Common stock.

#### Series A and Series B Common Stock

The holders of Series A and Series B common stock were entitled to one vote per share and were entitled to dividends when and if declared by the Board of Directors of the Company. The Series B Non-Voting common stock had the same rights and privileges as the Series B common

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<PAGE>

# ENTRUST TECHNOLOGIES INC.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

stock except for the non-voting nature of the stock and it is exchangeable at the option of the holder into Series B common stock. The Company's Series B common stock and Series B Non-Voting common stock were automatically converted into 13,063,836 shares of Common stock upon completion of the public offering of the Company's Common stock. Also, the Company's Series A common stock was converted to Common stock upon completion of the public offering. As of December 31, 1999, there were no issued and outstanding shares of the Company's Series A and Series B common stock.

# Redeemable Series A Common Stock

The holders of the Redeemable Series A common stock were entitled to the same rights and privileges as the Series A common stock. The 1,167,288 of these issued and outstanding shares were converted to an equivalent number of shares of Common stock upon completion of the public offering of the Company's Common stock. As of December 31, 1999, there were no issued and outstanding shares of the Company's Redeemable Series A common stock.

# Special Voting Stock

The holders of the Special Voting stock also hold an equivalent number of Exchangeable shares in the Company's majority-owned subsidiary, Entrust Technologies Limited. At any time prior to December 31, 2006, the holders of the Special Voting stock have the right to exchange their shares of Special Voting stock and their Exchangeable shares in Entrust Technologies Limited into 5,157,289 shares of Common stock. The Company generally also has the right to demand such exchange on or before December 31, 2006.

# Preferred Stock

The Company is authorized to issue up to 5,000,000 shares of Preferred stock in one or more series. Each such series of Preferred stock shall have such rights, preferences, privileges and restrictions, including voting rights, dividend rights, conversion rights and liquidation preferences, as shall be determined by the Board of Directors. As of December 31, 1999, the Company had not issued any shares of Preferred stock.

#### 8. Stock Options

#### Employee Stock Option Plans

During the year ended December 31, 1997, the Company's shareholders approved the 1996 Stock Incentive Plan (the "1996 Plan") applicable to the Company's full-time employees, officers, directors, and consultants and authorized 7,228,920 shares of Series A common stock (Common stock following the Company's public offering) for issuance thereunder. In 1998, the Company's Board of Directors and shareholders approved increases to 9,600,000 as the total authorized number of shares available for issuance under the 1996 Plan. In 1999, the Company's Board of Directors approved the 1999 Non-Officer Employee Stock Incentive Plan (the "1999 Plan") and authorized 2,500,000 shares for issuance thereunder. The options under the 1996 Plan and 1999 Plan are granted at the then-current fair market value of the Series A common stock (Common stock following the Company's public offering) of the Company and generally may be exercised in equal proportions over the defined vesting period for each grant, generally two to four years, and expire on the tenth anniversary or upon termination of employment.

#### <PAGE>

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## ENTRUST TECHNOLOGIES INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

A summary of the activity under the 1996 Plan and the 1999 Plan is set forth below:

<TABLE> <CAPTION>

		Options Outstandin	
	Shares Available for Grant	Number of Shares	Weighted Average Exercise Price
<s></s>	<c></c>	<c></c>	<c></c>
Balance at December 31, 1996Authorized	 7,228,920		
Granted Forfeited	(6,628,800) 140,720	6,628,800 (140,720)	\$ 2.16 2.13
Balance at December 31, 1997	740,840 2,371,080	6,488,080	2.16
Granted	(1,673,016)	1,673,016	11.79
Forfeited	121,324	(121,324)	4.44
Exercised		(18,846)	2.13
Balance at December 31, 1998	1,560,228 2,500,000	8,020,926	4.13
Granted Forfeited		2,531,330 (496,951)	32.85 11.35

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Exercised			(2,636,482)	3.28
Balance at December	31, 1999	2,025,849	7,418,823	13.76

# </TABLE>

The number of outstanding options exercisable into common stock was 3,441,860 at December 31, 1999. The weighted average exercise price of these exercisable outstanding options was \$3.16.

The following table summarizes information concerning currently outstanding options as at December 31, 1999:

# <TABLE>

<CAPTION>

	Options Outstanding		Options Exe	rcisable	
Range of Exercise Prices	Options	Weighted Average Remaining Contractual Life	Exercise	Number of Options Exercisable	Weighted Average Exercise Price
<s></s>	<c></c>	<c></c>	<c></c>	<c></c>	<c></c>
\$2.13 to \$2.50	3,938,736	7.2 years	\$ 2.17	3,092,898	\$ 2.17
\$6.25	462,497	8.2 years	\$ 6.25	165,675	\$ 6.25
\$9.25 to \$17.63	426,482	8.6 years	\$15.58	141,474	\$15.77
\$19.25 to \$26.25	1,379,998	9.4 years	\$21.95	41,813	\$21.35
\$26.50 to \$39.25	357,850	9.5 years	\$31.13		N/A
\$40.06 to \$53.69	850,000	10.0 years	\$49.80		N/A
\$65.00	3,260	10.0 years	\$65.00		N/A
	7,418,823			3,441,860	
	========			========	

</TABLE>

<PAGE>

# ENTRUST TECHNOLOGIES INC.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

Employee Stock Purchase Plan

The Company's 1998 Employee Stock Purchase Plan (the "Purchase Plan") was adopted by the Board of Directors in July 1998 and approved by the stockholders of the Company in August 1998. The Purchase Plan authorized the issuance of up to a total of 400,000 shares of Common stock to participating employees.

All employees of the Company, including directors of the Company who are employees, and all employees of any participating subsidiaries whose customary employment is more than 20 hours per week and more than five months in any calendar year are eligible to participate in the Purchase Plan.

Under the terms of the Purchase Plan, the price per share paid by each participant on the last day of the Offering Period is an amount equal to 90% of the fair market value of the Common stock on either the first day or the last day of the Offering Period, whichever is lower. On December 10, 1999, the Company's Board of Directors made a change in the Purchase Plan to lower the price per share paid to an amount equal to 85% of the fair market value of the Common stock on either the first day or last day of the Offering Period, whichever is lower. The Purchase Plan terminates on July 21, 2000 or such earlier date as the Board determines. Upon termination of the Purchase Plan all amounts in the accounts of participating employees will be promptly refunded.

# Stock-based Compensation

The Company applies APB Opinion No. 25 and related interpretations in accounting for its employee stock-based compensation plans. Accordingly, compensation expense was recognized for its stock-based compensation plans in the year ended December 31, 1998 because the exercise price of some options granted in that period were determined, for accounting purposes, to be below the fair value of the underlying stock as of the grant date for such stock options. In connection with the granting of these options, the Company recorded unearned deferred compensation of \$784 for the year ended December 31, 1998. This amount is being amortized over the vesting period of four years from the date of grant, with \$149 and \$196 amortized into compensation expense for the years ended December 31, 1998 and 1999, respectively. For all other options granted in the periods disclosed, the exercise price of each option granted was equal to the fair value of the underlying stock at the date of grant. Had compensation costs for the Company's 1996 Plan and 1999 Plan been determined based on the fair value of the options at the grant date for awards under the 1996 Plan and 1999 Plan, consistent with the methodology prescribed under SFAS 123, the Company's net income (loss) and net income (loss) per share would have been as follows, on a pro forma basis.

#### <TABLE> <CAPTION>

CAP I LUNZ

	Year Ended December 31,			
	1997	1998	1999	
<\$>	 <(`>	 <c></c>	 <(`>	
Net income (loss), as reported Estimated additional stock based compensation				
costs under SFAS 123	(1,535)	(2,687)	(13,464)	
Pro forma net income (loss)	\$ (1,021) =======	\$(26,515) ======	\$ (7,545) ======	
Pro forma basic and diluted net income (loss) per share	¢ (0,03)	¢ (0.75)	¢ (0,17)	
	₽ (0.03) ======	پ (۲۰ <i>۲۵)</i>	φ (0.17) =======	

</TABLE>

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# <PAGE>

#### ENTRUST TECHNOLOGIES INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

In the pro forma calculations, the weighted average fair value for stock options granted during 1997, 1998 and 1999 was estimated at \$0.66, \$5.47 and \$24.97 per option, respectively. The fair value of all options granted prior to the Company's initial public offering on August 17, 1998 were estimated as of the date of grant using the minimum value model. The fair value of all options granted subsequent to the Company's initial public offering were estimated as of the date of grant using the Black-Scholes option pricing model. The following weighted average assumptions were used in the calculations.

<TABLE> <CAPTION>

Year Ended December 31,

-----

	1997	1998	1999	
<s></s>	<c></c>	<c></c>	<c></c>	
Expected option life, in years	6	6	5	
Risk free interest rate	6.22%	5.37%	5.69%	
Dividend yield				
Volatility		108%	98%	

  |  |  |  |

## 9. Related Party Transactions

Significant related party transactions with the Company's largest shareholder, Nortel, and affiliated companies, not otherwise disclosed in the financial statements, include the following:

The Company paid \$273 in the year ended December 31, 1997 for research and development services provided by Bell Northern Research Ltd. ("BNR"), a subsidiary of Nortel. The research and development services and other costs of revenue were purchased at cost from BNR. Purchases from BNR are settled through the intercompany accounting system of Nortel.

Revenues include sales to Nortel for the years ended December 31, 1997, 1998 and 1999 of \$495, \$1,916 and \$1,453, respectively. Revenues for the years ended December 31, 1997, 1998 and 1999 include sales to Nortel-affiliated companies totaling \$332, \$2,076 and \$269, respectively.

During the years ended December 31, 1997, 1998 and 1999, the Company reimbursed Nortel for expenses paid by Nortel on behalf of the Company, net of revenues collected by Nortel on behalf of the Company. The net expenses reimbursed amounted to \$5,610, \$1,390 and \$512 for the years ended December 31, 1997, 1998 and 1999, respectively. These amounts have been recorded in these financial statements at the carrying amount of the transactions involved.

Balances due to/from the related party, arising from the sales of product and receipt of services referred to above, are typically payable net 30 days from the date of the related intercompany invoice. At December 31, 1998, accounts receivable included \$1,724 related to Nortel. The accounts receivable at December 31, 1999, related to Nortel, was insignificant.

# <PAGE>

### ENTRUST TECHNOLOGIES INC.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

#### 10. Commitments and Contingencies

#### Lease commitments

The Company leases administrative and sales offices and certain property and equipment under noncancellable operating leases expiring through 2010 with certain renewal options. Total rent expense under such leases for the years ended December 31, 1997, 1998 and 1999 were \$956, \$3,083 and \$4,754, respectively. At December 31, 1999, the future minimum lease payments under operating leases were as follows:

<s></s>	<c></c>
2000	 \$ 4,708
2001	 4,974
2002	 3,340
2003	 2,390

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https://www.sec.gov/Archives/edgar/data/1031283/000093066100000529/0000930661-00-000529.txt

Thereafter	13,852
Total future minimum lease payments	\$29,264 ======

#### </TABLE>

#### Legal proceedings

The Company is subject to various legal proceedings and claims, either asserted or unasserted, which arise in the ordinary course of business. While the outcome of these claims cannot be predicted with certainty, management does not believe that the outcome of any such legal matters will have a material adverse effect on the consolidated results of operations or consolidated financial position.

On February 19, 1999, Surety Technologies, Inc. ("Surety") filed Civil Action 99-203 against the Company alleging that the Entrust/Timestamp product infringed various claims of U.S. Patent Re 34,954 (the "954 Patent"). In a verdict returned on November 3, 1999, a federal jury found that all of the claims of the 954 Patent asserted by Surety against the Company were invalid for reasons of both anticipation and obviousness. As a result of the jury's decision, Surety's complaint has been dismissed with prejudice. On November 4, 1999, judgment was entered in favor of the Company in the United States District Court for the Eastern District of Virginia in Civil Action 99-203.

## 11. Employee Savings Plan

The Company has a defined contribution retirement savings plan covering substantially all of its full-time employees. This plan qualifies under Section 401(k) of the Internal Revenue Code for participating U.S. based employees. The Company matches 50% of employee contributions up to 3% of their individual compensation. Matching contributions made by the Company totaled \$183, \$383 and \$592 for the years ended December 31, 1997, 1998 and 1999, respectively.

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# ENTRUST TECHNOLOGIES INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

# 12. Segment, Geographic and Major Customer Information

#### Segment information

The Company conducts business in one operating segment; namely, the design, production and sale of software products and related services for encryption and digital signature. The nature of the Company's different products and services is similar and, in general, the type of customers for those products and services is not distinguishable.

The Company does, however, prepare information for internal use by the Chief Operating Decision Maker ("CODM"), the President and Chief Executive Officer, on a geographic basis. Accordingly, under SFAS 131, the Company has included a summary of the segment financial information reported to the CODM as follows in the next section regarding geographic information. The Company's CODM does not view geographic segment results below net income (loss) before income taxes and, therefore, the provision for income taxes is not broken out by geographic segment below. The accounting policies of the reportable geographic segments are the same as those described in the summary of significant accounting policies.

### Geographic information

Revenues are attributed to specific geographical areas based on where the sales order originated. Long-lived assets and total assets of the Company are those that are identified with operations in the respective geographic areas.

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# <PAGE>

## ENTRUST TECHNOLOGIES INC.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

The Company operates in three main geographic areas as follows:

# <TABLE> <CAPTION>

<caption></caption>	Year Ended December 31,		
	1997	1998	1999
<s></s>		<c></c>	
Revenues: United States Canada		\$ 25,861 11,832	
Europe, Asia and Other		11,295	13,398
Total revenues	-	\$ 48,988 ======	-
Segment operating income (loss): United States Canada	• •	\$ (3,297) (167)	
Europe, Asia and Other		(862)	1,617
Total segment operating income (loss)		(4,326)	
Depreciation and amortization expense: United States			
Canada Europe, Asia and Other		278	494
Total depreciation and amortization		1,261	3,348
Interest income: United States	723	-	-
Acquired in-process research and development: United States		20,208	
<pre>Income (loss) before income taxes:     United States</pre>	2		
United States Canada Europe, Asia and Other	231	(740) (1,140)	2,325 1,123
Total income (loss) before income taxes	\$ 233		\$ 7,719
<caption></caption>	De	cember 31,	
	1997	1998	1999
<s> Long-lived assets (generally depreciated over three to five years):</s>	<c></c>	<c></c>	<c></c>

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United States	\$ 118	\$ 4,323	\$ 8,493
Canada	1,540	3,510	5,921
Europe, Asia and Other	40	775	823
Total long-lived assets	\$ 1,698	\$ 8,608	\$ 15,237
	======	=======	=======
Total assets:			
United States	\$18,637	\$ 95,110	\$107,517
Canada	4,689	8,244	15,216
Europe, Asia and Other	1,431	4,475	7,787
Total	\$24,757	\$107,829	\$130,520
	======	=======	=======

</TABLE>

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<PAGE>

# ENTRUST TECHNOLOGIES INC.

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS--(Continued) (in thousands of dollars, except share and per share data)

Major customer information

In 1997, three customers accounted for an aggregate of 42% of revenues. These customers, individually, accounted for 19%, 12% and 11% of revenues, respectively. In 1998, no individual customer accounted for 10% or more of revenues. In 1999, a single customer accounted for 24% of revenues, and no other customers accounted for 10% or more of revenues.

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# EXHIBIT INDEX

-----

Exhibit Number 	Description	Form	Number
2.1*	Share Purchase Agreement, dated as of May 30, 1998, as amended, between the Registrant and Rainer A. Rueppel.	S-1	2.3
2.2*	Share Purchase Agreement, dated as of May 30, 1998, as amended, between the Registrant and Invision AG.	S-1	2.4
2.3*	Form of Share Purchase Agreement between the Registrant and the minority stockholders of r/3/ Security Engineering AG.	S-1	2.5
3.1*	Amended and Restated Articles of Incorporation of the Registrant.	S-1	3.2
3.2*	Amended and Restated Bylaws of the Registrant.	S-1	3.4
4.1*	Specimen certificate for shares of Common Stock, \$.01 par value, of the Registrant.	S-1	4.1
10.1*	Amended and Restated Registration Rights Agreement, dated as of July 30, 1998, by and among the Registrant and certain stockholders.	S-1	10.3

10.2*	Strategic Alliance Agreement, dated as of December 31, 1996, between the Registrant and Northern Telecom Limited.	S-1	10.5
10.3*#	Letter Agreement, dated as of April 21, 1997, between the Registrant and John A. Ryan.	S-1	10.9
10.4*#	Letter Agreement, dated as of November 18, 1996, between Northern Telecom Limited, on behalf of the Registrant, and Brian O'Higgins.	S-1	10.10
10.5*#	Letter Agreement, dated as of June 4, 1997, between the Registrant and Richard D. Spurr.	S-1	10.12
10.6*#	Letter Agreement, dated as of November 14, 1997, between the Registrant and Hansen Downer.	S-1	10.13
10.7*#	Amended and Restated 1996 Stock Incentive Plan.	S-1	10.14
10.8*	Lease Agreement, dated as of January 28, 1998, between Colonnade Development Incorporated and Entrust Technologies Limited.	S-1	10.16
<page></page>			
10.9**	Standard Office Building Lease Agreement, dated as of January 19, 1999, between HMS office L.P. and the Registrant.	10-K	10.16
10.10+#	Amendment No. 1 to the 1996 Amended and Restated Stock incentive Plan.	S-3	10.1
10.11+#	Release Agreement between Bradley Ross and the Registrant and Entrust Technologies Limited dated June 30, 1999.	S-3	10.2
10.12+#	Letter Agreement dated October 11, 1999 between the Registrant and David L. Thompson.	S-3	10.3
10.13+	Development Agreement dated December 29, 1999 between Canderel Management Inc. and Entrust Technologies Limited.	S-3	10.4
10.14+	Lease dated December 29, 1999 in Pursuance of the Short Forms of Lease Act between 786473 Ontario Limited, Entrust Technologies Limited and the Registrant.	S-3	10.5
10.15+	Lease dated December 29, 1999 by and between 3559807 Canada Inc., Entrust Technologies Limited and the Registrant.	S-3	10.6
21	Subsidiaries of the Registrant.	Enclo	
		herewith	
23.1	Consent of Deloitte & Touche LLP.	Enclo herew	
27	Financial Data Schedule.	Enclo herew	

- -----

\* Incorporated herein by reference to the Registrant's Registration Statement

on Form S-1 (File No. 333-57275).
# Management contract or compensatory plan or arrangement filed in response to
Item 14(a)(3) of the instructions to Form 10-K.
\*\* Incorporated herein by reference to the Registrant's Annual Report on Form
10-K for the fiscal year ended December 31, 1998 (File No. 000-24733).
+ Incorporated herein by reference to the Registrant's Registration Statement
on Form S-3 (File No. 333-95375).

</TEXT> </DOCUMENT> <DOCUMENT> <TYPE>EX-21 <SEQUENCE>2 <DESCRIPTION>LIST OF SUBSIDIARIES <TEXT>

<PAGE>

EXHIBIT 21

# SUBSIDIARIES OF THE REGISTRANT

<TABLE> <CAPTION>

<SEQUENCE>3

Subsidiary Legal Percentage of	Address of	Jurisdiction of
Name	Subsidiary	Incorporation
Ownership		
<s> <c></c></s>	<c></c>	<c></c>
Entrust Technologies Limited 99.999%	750 Heron Road	Ontario
	Ottawa, ON, Canada K1V 1A7	
Entrust Technologies (UK) Limited 100%	29 The Forbury	England
	Reading, Berkshire England, RG1 3oJ	
r3 Security Engineering AG 100%	6th Floor, Glatt Tower	Switzerland
	CH-8301 Glattzontrum	
Entrust Technologies GMBH	Zurich, Switzerland Hessenring 119-121	Germany
100%	5	,
	61348 Bad Homburg Germany	
Entrust Technologies (Switzerland) 100%	6th Floor, Glatt Tower	Switzerland
Ltd. Liab. Co.	CH-8301 Glattzentrum Zurich, Switzerland	
Entrust.net Limited 100%	750 Heron Road	Ontario
	Ottawa, ON, Canada K1V 1A7	

EX-23.1				
<DESCRIPTION>CONSENT OF INDEPENDENT AUDITORS

<TEXT>

<PAGE>

EXHIBIT 23.1

## INDEPENDENT AUDITORS' CONSENT

We consent to the incorporation by reference in Registration Statements No. 333-65245, No. 333-65255 and No. 333-31054 of Entrust Technologies Inc. on Forms S-8 of our report dated January 28, 2000, appearing in this Annual Report on Form 10-K of Entrust Technologies Inc. for the year ended December 31, 1999.

/s/ DELOITTE & TOUCHE LLP Dallas, Texas March 13, 2000 </TEXT> </DOCUMENT> <DOCUMENT> <TYPE>EX-27 <SEQUENCE>4 <DESCRIPTION>FINANCIAL DATA SCHEDULE <TEXT> <TABLE> <S> <C> <PAGE> <ARTICLE> 5 <LEGEND> THIS SCHEDULE CONTAINS SUMMARY FINANCIAL INFORMATION EXTRACTED FROM THE CONSOLIDATED BALANCE SHEET AS AT DECEMBER 31, 1999 AND THE CONSOLIDATED STATEMENT OF OPERATIONS FOR THE YEAR ENDED DECEMBER 31, 1999 AND IS QUALIFIED IN ITS ENTIRETY BY REFERENCE TO SUCH FINANCIAL STATEMENTS. </LEGEND> <MULTIPLIER> 1,000 <S> <C> <PERIOD-TYPE> YEAR DEC-31-1999 <FISCAL-YEAR-END> <PERIOD-START> JAN-01-1999 <PERIOD-END> DEC-31-1999 21,877 <CASH> <SECURITIES> 67,394 21,817 <RECEIVABLES> (703)<ALLOWANCES> <INVENTORY> 0 115,283 <CURRENT-ASSETS> 10,888 <PP&E> 3,984 <DEPRECIATION> <TOTAL-ASSETS> 130,520 <CURRENT-LIABILITIES> 27,365 <BONDS> 0 <PREFERRED-MANDATORY> 0 <PREFERRED> 0 <COMMON> 452 <OTHER-SE> 102,703 <TOTAL-LIABILITY-AND-EQUITY> 130,520 <SALES> 85,214 <TOTAL-REVENUES> 85,214 <CGS> 15,302

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81,271

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