

PARADYNE NETWORKS INC  
Form 10-K/A  
March 24, 2003  
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**SECURITIES AND EXCHANGE COMMISSION**

**WASHINGTON, D.C. 20549**

**FORM 10-K/A**

**Amendment No. 1**

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

x **ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

**FOR THE FISCAL YEAR ENDED DECEMBER 31, 2002**

**OR**

.. **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(D) OF THE SECURITIES EXCHANGE ACT OF 1934**

**FOR THE TRANSITION PERIOD FROM \_\_\_\_\_ TO \_\_\_\_\_**

**COMMISSION FILE NUMBER: 000-26485**

**PARADYNE NETWORKS, INC.**

**(Exact name of registrant as specified in its charter)**

**Delaware**

**75-2658219**

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(State or other jurisdiction of incorporation)

(I.R.S. employer identification no.)

**8545 126th Avenue North**

**Largo, Florida 33773**

(Address of principal executive offices)

**(727) 530-2000**

(Registrant's telephone number, including area code)

**Securities Registered Pursuant to Section 12(b) of the Act:**

**None**

**Securities registered pursuant to Section 12(g) of the Act:**

**Common stock, \$.001 par value per share**

(Title of class)

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  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.

Indicate by check mark whether the registrant is an accelerated filer (as defined in Exchange Act Rule 12B-2)

Yes  No

The aggregate market value of the registrant's common stock held by non-affiliates of the registrant was approximately \$38,554,866 at February 28, 2003, based on the closing sale price of \$1.32 per share for the common stock on such date on the Nasdaq National Market.

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The number of shares of the registrant's common stock outstanding at February 28, 2003 was 42,862,443.

### **Documents Incorporated by Reference**

Portions of the registrant's Proxy Statement for the Annual Meeting of Stockholders to be held on May 19, 2003 are incorporated by reference into Part III hereof.

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**PARADYNE NETWORKS, INC.**

**ANNUAL REPORT ON FORM 10-K/A**

**For the Fiscal Year Ended December 31, 2002**

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**Explanatory Note**

This Amendment No. 1 to our Annual Report on Form 10-K/A amends our Annual Report on Form 10-K for the fiscal year ended December 31, 2002 that was originally filed on March 20, 2003 in order to correct certain percentages in the Item 7 table relating to Results of Operations.

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For the convenience of the reader, this Amendment No. 1 amends and restates in its entirety the entire Form 10-K, amending only those disclosures made in the Item 7 table relating to Results of Operations. This Amendment No. 1 continues to speak as of the date of the original Form 10-K filing, and we have not updated the disclosure contained herein to reflect any events that occurred at a later date.

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**PART I**

**Item 1. Business**

We believe that it is important to communicate our plans and expectations about the future to our stockholders and to the public. Some of the statements in this report are forward-looking statements about our plans and expectations of what may happen in the future, including in particular the statements about our plans and expectations under the headings *Item 1. Business* and *Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations*. Statements that are not historical facts are forward-looking statements. These forward-looking statements are made pursuant to the safe-harbor provisions of the Private Securities Litigation Reform Act of 1995. You can sometimes identify forward-looking statements by our use of forward-looking words like *may*, *will*, *should*, *expects*, *intends*, *plans*, *anticipates*, *believes*, *estimates*, *predicts*, *potential*, or *continue* or the negative of these terms and other similar expressions.

Although we believe that the plans and expectations reflected in or suggested by our forward-looking statements are reasonable, those statements are based only on the current beliefs and assumptions of our management and on information currently available to us and, therefore, they involve uncertainties and risks as to what may happen in the future. Accordingly, we cannot guarantee you that our plans and expectations will be achieved. Our actual results and stockholder values could be very different from and worse than those expressed in or implied by any forward-looking statement in this report as a result of many known and unknown factors, many of which are beyond our ability to predict or control. These factors include, but are not limited to, those contained in *Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations-Risk Factors Which May Impact Future Operating Results* and elsewhere in this report. All written and oral forward-looking statements attributable to us are expressly qualified in their entirety by these cautionary statements.

Our forward-looking statements speak only as of the date they are made and should not be relied upon as representing our plans and expectations as of any subsequent date. While we may elect to update or revise forward-looking statements at some time in the future, we specifically disclaim any obligation to do so, even if our plans and expectations change.

This Form 10-K includes trademarks, servicemarks and trade names of other companies.

We make our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and proxy statement for our annual stockholders meeting, as well as any amendments to those reports, available free of charge through our web site as soon as reasonably practicable after we electronically file such material with, or furnish it to the SEC. You can learn more about us by reviewing our SEC filings on our web site. Our SEC reports can be accessed through the company page of our web site, namely [www.paradyne.com/corporate\\_info](http://www.paradyne.com/corporate_info). The SEC also maintains a web site at [www.sec.gov](http://www.sec.gov) that contains reports, proxy statements and other information regarding SEC registrants, including Paradyne. Any reference herein to our worldwide web address does not constitute incorporation by reference into this Annual Report on Form 10-K of the information contained on our web site.

**Overview**

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We are a leading developer, manufacturer and distributor of broadband network access products for network service providers, commonly referred to as NSPs, and business customers. We operate in a single business segment. We offer solutions that enable high-speed connectivity over the existing telephone network infrastructure and provide for cost-effective access speeds of up to 45 megabits per second, or Mbps. NSPs use our broadband products to enable high-speed connections from the central office to the customer premise. Moreover, our broadband products enable NSPs to more efficiently provide network access services by allowing a high level of management, monitoring and control over network access equipment and circuits. Business customers use our broadband products for high-speed connection of voice and data communications to connect their employees to corporate wide area networks and to the internet using both public and private services provided by NSPs. Our products are designed for easy installation by NSPs and end users, significantly reducing the need for installation by an onsite service technician, thereby reducing costs for network access. We believe that demand for high-speed, broadband transmission will continue to increase as more business and residential users find narrowband access technologies inadequate to meet their high-bandwidth requirements. We strive to meet that demand in the broadband access market by focusing our products on next generation digital subscriber line, or DSL, service level management, and other broadband access products.

We operate our business through our wholly-owned subsidiary, Paradyne Corporation. Paradyne Corporation was originally incorporated in Delaware in 1969, acquired by AT&T in 1989 and spun out of AT&T as part of Lucent Technologies in 1996. In July 1996, a limited partnership controlled by Texas Pacific Group acquired Paradyne Corporation and formed Paradyne Acquisition Corp. as a holding company. Paradyne Acquisition Corp. changed its name

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to Paradyne Networks, Inc. in June 1999. In July 1999 and September 1999, Paradyne Networks, Inc. issued shares of common stock in the public marketplace through an initial public offering and secondary offering, respectively.

In December 2001, we announced the acquisition of Elastic Networks Inc., or Elastic Networks, of Alpharetta, Georgia. On March 5, 2002, the acquisition was completed and we acquired 100% of the capital stock of Elastic Networks in exchange for 7,623,875 shares of our common stock. Using an average market value of \$3.77 per share (the average of the closing prices during the 7 trading days surrounding the December 27, 2001 announcement of the acquisition), the purchase price was approximately \$28.7 million. Elastic Networks designs high-speed, broadband communications products that have the advantages of high-speed access for the in-building broadband market and can operate effectively over lower quality lines. Elastic Networks was acquired for several reasons including: it launches Paradyne into the in-building DSL market; Elastic Networks has a strong complimentary base of independent telephone companies as customers; Elastic Networks EtherLoop product is an important technology to Paradyne; and Elastic Networks cash and working capital improved our balance sheet. As of the close of the acquisition, Elastic Networks became a wholly owned subsidiary of Paradyne. During 2002, the business of Elastic was fully integrated into Paradyne. This transaction was accounted for using purchase accounting. In connection with the acquisition of Elastic Networks, Paradyne's stockholders approved an increase in the authorized number of shares of Paradyne common stock from 60,000,000 to 80,000,000.

On May 20, 2002, we completed the acquisition of substantially all the operating assets of Jetstream Communications, Inc, of San Jose, California for \$3.0 million in cash. Along with acquiring substantially all the operating assets including the intellectual property, we also hired a core team of engineers and selected sales people to restart the business as a product group of Paradyne. Jetstream Communications designed voice over broadband systems for use by telecommunications carriers. This equipment makes it possible for telecommunications carriers to deliver multiple lines of standard telephone service over broadband connections like DSL. Jetstream Communications had established themselves as the leader in the voice over broadband marketplace with a market share of over 50% in 2001, according to RHK Consulting.

We have a long history of technological innovation. As of the end of 2002, we have issued over 310 U. S. patents, hold over 195 patents and have over 95 U. S. patent applications pending. Our equipment has been sold to over 65% of the Fortune 500® companies. We estimate that sales to NSPs represented approximately 82% of our total revenues in 2002. With our reputation and history as a supplier of access solutions to a large customer base, we believe that we are well positioned to provide broadband access solutions to NSPs and business customers as they upgrade their networks.

## **Industry Background**

Over the past several years, data traffic generated by computer users accessing the Internet or business networks has increased significantly. Industry analysts believe that the volume of this data traffic, referred to as wide area network traffic, will continue to expand rapidly due to four key trends:

the dramatic growth in the use of high bandwidth applications over the Internet;

the proliferation of distributed computing applications, such as electronic mail, electronic transaction processing, enterprise resource planning and inter-enterprise information transfer based on Web-technologies;



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the deregulation of the telecommunications services industry which has increased the number of service providers and intensified competition; and

the continued deployment of high capacity fiber optic networks and the emergence of high-volume bandwidth network access technologies that increase the ability to transfer large volumes of information.

In order to accommodate increasingly high volumes of data, NSPs have invested significant resources to upgrade central office switching centers and the interconnecting infrastructure, known as the network backbone. While capacity constraints in the network backbone continue to be addressed through the use of high-speed digital and fiber-optic equipment, the network that connects end users to NSP central offices, typically known as the last mile, remains a bottleneck that limits high-speed data transmission. The last mile was originally constructed with copper twisted-pair wiring designed to support analog voice traffic. There is an estimated installed base of over 180 million copper lines in the United States, and over 900 million worldwide. End users have been frustrated by these limitations and the ability of NSPs to cost effectively deliver high-speed services, such as telecommuting, branch office internetworking and Internet access, over the last mile. Standard, narrowband dial-up connections, which are typically limited to data transmission rates of 28.8 kilobits per second, or Kbps, to 56.0 Kbps do not adequately support these applications. We believe that most business and residential users are finding these types of narrowband access technologies unacceptable for their high bandwidth requirements.

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Global regulatory changes have increased the number of competitors in the access portion of the network and are accelerating the need for NSPs to upgrade their networks and increase their service offerings. Internationally, a number of developed and developing nations have privatized their state-owned telecommunications monopolies and opened their markets to new NSPs. New competitors in these markets include cable TV operators, Internet service providers, satellite operators, fixed wireless operators, and electric utilities. For example, cable TV operators are already beginning to provide data transmission services to customers by leveraging the high bandwidth capabilities of their coaxial cable based infrastructure. This increase in competition for the access portion of the network is also helping to facilitate the transition from narrowband to broadband access over the last mile. These new competitors are delivering broadband network access to end-user customers, which applies significant pressure to the incumbent local exchange carriers, or ILECs, to enhance their network infrastructure and deliver similar broadband services.

New digital technologies have been introduced to increase the speed and quality of digital transmission over the copper wire infrastructure, or local loop, in the last mile and provide alternative means of accessing the network backbone. The increased speed, lower transmission cost, higher reliability and quality of digital networks are better suited for transmitting the increased level of enhanced voice and high-speed data traffic that now must pass over the last mile. NSPs continue to aggressively install higher-speed, digital broadband transmission technologies, such as DSL, in the last mile. According to research data compiled by Jefferies & Company, the worldwide number of DSL connections is expected to grow from 18.1 million in 2001 to 73.8 million by 2004. At an average price of \$150 per line, that would require approximately \$8.5 billion in DSL equipment to support this volume of connections.

NSPs have deployed various narrowband and broadband technologies across customers wide area networks in order to provide cost-effective access solutions for their customers. Demand for high-speed access services has increased and more protocols have emerged to facilitate the connections of business customers to NSPs network backbones. Protocols are computer languages that allow two or more communications devices, such as modems, to communicate with one another. These protocols include Internet Protocol, commonly referred to as IP, Frame Relay, asynchronous transfer mode, commonly referred to as ATM, integrated services digital network, commonly referred to as ISDN and others. When networks must support multiple protocols, network management is more difficult because many protocols are being used simultaneously and the network management devices must decipher each protocol. The proliferation of protocols makes the provisioning and management of high-speed access technologies and services increasingly difficult. As a result, NSPs are required to operate and maintain hybrid networks comprised of recently adopted new technologies and existing installed equipment.

The performance, quality and maintainability of network services are highly dependent on the volume and type of traffic running over these hybrid networks. As a result, NSPs and business customers need sophisticated diagnostic and management capabilities to monitor business customer application traffic. The required tools should analyze the physical transmission characteristics as well as enable NSPs and business customers to evaluate compliance with service level agreement parameters such as: how much data gets through the network; the time it takes data to get through the network; and availability of the network. Business customers also need management solutions that can be scaled to meet growing demand for services, improve network quality, reduce the number of support personnel managing their networks and lower the overall costs for bandwidth and maintenance tools.

As demand for high-speed transmission continues to increase, we believe that the telecommunications industry will continue to develop and deploy new broadband access technologies, which will become increasingly cost competitive with traditional technologies. As a result of changes in the telecommunications industry, NSPs are requiring flexible solutions that can be scaled to meet growing demand for services, and also permit easy, cost-effective enhancements in the future. With the increasing number of access protocols and equipment options, customers are placing a higher level of importance on the ability of equipment providers to deliver integrated system solutions.

## **Business Objective and Strategy**

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Our objective is to maintain and build upon our position as one of the leaders in the broadband access market by focusing on next generation DSL solutions, conventional copper broadband solutions and SLM solutions. Key elements of our strategy include:

*Continue To Develop Innovative Broadband Technology and System Solutions*

We will continue to focus on providing innovative, cost-effective broadband access solutions that improve communications over the traditional copper telephone wire infrastructure for NSPs and business customers. Sales of broadband equipment represented approximately 82% of our total Equipment Sales revenues for 2002. We believe that our

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internally developed technologies play a key role in differentiating our products from those of our competitors. We have been issued over 310 U. S. patents, hold over 195 patents and have over 95 U. S. patent applications pending, and we expect many of these patents and patent applications will contribute to the development of new technologies and systems. In addition, we will continue to collaborate with technology partners to facilitate the development of competitive products, as we have previously done with Lucent and others. Our DSL technological innovations include our ReachDSL technology, which continues to be further enhanced and brought to market in the form of our ReachDSL products. Our ReachDSL transceiver technology, which is the core building block of our ReachDSL products, has demonstrated superior loop reach, immunity to typical impairments and ease of installation over alternative DSL technologies. In January 2002, we signed an agreement with Alcatel Microelectronics to develop a new ADSL chipset that incorporates our ReachDSL technology. If successful, this new ADSL chipset, called ADSL/R, will allow NSPs to deploy a single product everywhere without concern for whether the copper lines will fully support ADSL technology. It is anticipated that the ADSL/R chipset will initially attempt to train up with ADSL, but if it fails to do so, it will train up with ReachDSL, providing the customer with connectivity of service regardless of the line conditions. This feature can potentially save the NSP a considerable amount of operational expense, delay and customer frustration. We believe ReachDSL technology will continue to allow us to provide differentiated solutions, both in products and chipset technology, which provide our NSP customers with greater market coverage to more customers and lower installation costs than alternative DSL products. In February 2003, we announced a new customer premise product that uses ADSL/R technology, which allows the product to operate with standard ADSL technology or, alternatively, with ReachDSL technology. This product represents a large potential benefit to carriers who wish to deploy both standards-based ADSL for some customers and Paradyne's unique ReachDSL in the more challenging environments. This new product will allow the carrier to only have to stock and support a single customer premise product to cover both technologies. The product will be available later this year.

With the acquisition of Elastic Networks, we obtained a new set of innovative DSL technologies called EtherLoop. Elastic Network's BitStorm product family uses EtherLoop technology to deliver up to 10 Mbps over standard telephone wiring. Elastic Networks had found some success in the in-building and hospitality (hotel) DSL markets with their BitStorm products. We have continued to pursue these markets with the Elastic Networks' products and with other new products developed since the acquisition. Like ReachDSL, EtherLoop also works well over poor copper, so there are opportunities with Paradyne's existing NSP customers that we can pursue as well. We believe EtherLoop technology will allow us to provide differentiated solutions to the emerging in-building and hospitality DSL markets.

Our SLM technology innovations have been implemented in our FrameSaver and OpenLane products. We continue to enhance these products with innovations that enable our NSP customers to offer more cost-effective SLM services more broadly. We intend to enhance our DSL solutions with products designed for the in-building DSL market and more cost-effective DSL access multiplexer, or DSLAM, solutions for deployment of our ReachDSL technology. In order to increase customer premise equipment choices for our customers, we will continue to interoperate with products that allow customers to perform additional, high-value functions over their DSL network. These products allow voice and data to share the DSL network, streaming audio and video over a DSL network, or special protocols to be transmitted over a DSL network. In order to create additional features for our DSLAMs, we plan to continue to develop new versions of both hardware and software to support new requirements from our customers. Further, we have integrated our FrameSaver SLM technology into additional platforms, including those that support DSL and ATM. These new SLM DSL products will enable service providers to offer higher profit business networking to branch offices and expand their services beyond the commodity internet access markets. As our customers continue to expand their DSL networks into the application space of conventional broadband networks, we believe our technological leadership and products will provide Paradyne with a competitive advantage.

*Continue To Capitalize On Global Buildout of DSL Infrastructure*

Unit sales of DSL equipment are projected by industry sources to more than double over the next six years from 26 million units in 2002 to approximately 60 million units in 2008. Part of this increase is due to DSL winning a larger share of the market. In 2002, 62% of broadband modems sold were DSL, up from 57% in 2001. To capitalize on this projected growth, we intend to continue to pursue design wins from NSPs that are offering or plan to offer DSL services. A design win is achieved when an NSP adopts Paradyne products as one of a limited number of DSL platforms for its central office or private network deployment. A typical NSP build out includes DSLAMs in an NSP's central office, resulting in an installed base into which Paradyne will be well positioned to sell DSL line-cards for the DSLAMs and DSL customer premises equipment for the end user. From the third quarter of 1997 through the fourth quarter of 2002, Paradyne has shipped over 31,000 DSLAMs into the marketplace with more than 4.8 million ports of capacity in the field. Some of our current DSL customers include Choice One

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Communications, Integra Telecom, Fibernet (UK), Beijing Telecom, Broadband Technologies Corporation (Japan), Cavalier Telephone, TDS Telecom, Northern Telephone, Shanghai Telecom, Concord Telephone, Matanuska Telephone, and Verizon. We will continue to focus on increasing our number of design wins with new NSPs, as well as maintain our existing relationships with NSPs who have awarded us design wins in the

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past. We increased our efforts to penetrate the emerging DSL markets outside of the U.S. in 2002. These markets represent greater opportunities in 2003 and beyond than they have in the past as many countries throughout Asia, Europe, Africa and Latin America are starting to deploy broadband DSL networks. We also intend to continue to produce a variety of DSL line-cards and develop or interoperate with innovative DSL customer premises equipment to handle the diverse needs of our NSP customers. We intend to deliver DSL solutions which improve the profitability of our NSP customers by avoiding the hidden costs associated with many DSL technologies, such as incremental unbudgeted truck rolls, and by providing business grade solutions that will allow our customers to expand their services beyond basic internet access.

With the acquisition of Elastic Networks, we launched into the in-building and hospitality markets for high-speed access in 2002. These markets have emerged as technologies supporting video on demand, internet access and voice have stabilized and become affordable. Elastic Networks BitStorm product line is able to deliver the bandwidth over short copper loop distances to support applications like these. In both the in-building (multiple dwelling unit or MDU) market and the hospitality (hotels) market, demand for services like these offer service providers and building owners attractive business opportunities. Elastic Networks closed significant equipment deals with Verizon Avenue, a subsidiary of Verizon, focused on the U.S. MDU market, and with Six Continents, a hotel holding company with over 3,200 hotels around the world, such as Inter-Continental, Crowne Plaza, Holiday Inn, Holiday Inn Express and Staybridge Suites by Holiday Inn. We will continue to focus on increasing our number of design wins with new MDU and Hospitality customers, as we believe we are in the position to take advantage of these markets that are entering a new growth phase.

### *Increase Worldwide Deployment of Framesaver as Part of Our NSP/ SLM Solutions*

NSPs are enhancing their service offerings by providing intelligent devices such as certain of our FrameSaver products that provide NSPs with the diagnostic instrumentation to remotely monitor, diagnose and isolate the source of network performance issues. As a result, NSPs are able to provide higher uptime services, with lower costs of operations. In addition, NSPs are offering service level agreements for their Frame Relay and asynchronous transfer mode business customers. Service level agreements are put in place between an NSP and the NSP's customer to document how the NSP and the customer expect the service to operate. Three parameters are generally measured and documented in SLAs: (1) availability (i.e. whether the service connection is up and running), (2) latency (delay in traversing the network from end-to-end) and (3) throughput (bandwidth used for the customer's connection). If the service does not operate as specified according to these parameters, then there is typically some type of remedy. One example of those specified agreements is an agreement that service is to be available 24 hours a day, 365 days a year. If the service is not available for one of those days, then the NSP may then be required to reimburse the customer for one day's worth of charges. We believe that as service level agreements become more widely adopted, NSPs and end user customers will increasingly require SLM solutions and, therefore, NSPs will be required to incorporate these solutions in their networks. We intend to focus on further integrating FrameSaver as part of our existing NSP customers' service level agreement solutions and obtaining additional FrameSaver design wins from new NSPs. Currently, AT&T, SBC, BroadWing, WorldCom, Verizon and Sprint offer FrameSaver solutions to their customers. In addition, we intend to work with leading Frame Relay NSPs and DSL NSPs to deploy lower cost Frame Relay and Virtual Private Network (VPN) solutions using our FrameSaver DSL solutions. These solutions offer dramatic reductions in costs associated with the access networks. In addition, the Frame Relay over DSL solutions reduce the Frame Relay NSPs backbone costs by consolidating the number of access lines terminated on a common Frame Relay switch. These cost reductions offer increased opportunities to improve margins and increase service rates among the existing Frame Relay customers. They also offer the opportunity for NSPs to migrate the large number of business applications from lower end alternative services such as ISDN, satellite and dial-up connections, and expand the addressable market.

### *Focus on Product Sales To and Through NSPs*

We intend to continue focusing on NSPs that deploy DSL, Frame Relay and IP voice and data services to capitalize on the increased demand for such services. Over the past five years, our sales to NSPs have increased as a result of the efforts of our worldwide NSP direct sales force. We estimate that approximately 82% of our total revenues in 2002 were generated from sales to NSPs. We intend to focus the efforts of our direct sales force on maintaining and increasing sales within our current NSP customer base as well as attracting new NSP customers worldwide.

*Leverage Fortune 500® Customer Base as They Upgrade Their Networks to Broadband*

We intend to leverage our installed base of Fortune 500® companies and other businesses that have purchased our narrowband products and conventional broadband products. Many of these customers have deployed networks including a combination of our narrowband and broadband solutions, and we expect that these companies will continue to upgrade their networks with additional broadband solutions. We believe that our existing customers prefer to buy our broadband products

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as a result of the ability to integrate our products into their existing networks more efficiently than the products of our competitors.

**Products and Technologies**

We develop, manufacture and distribute an extensive line of broadband network access products and technologies. Sales of broadband products represented approximately 82% of our total equipment sales revenue in 2002. In addition, we provide systems that allow business customers and NSPs to have a high level of management, monitoring and control over their network access equipment and circuits. Although advanced network management systems are an important aspect of our products and technology, they have not been a material aspect of our sales revenue generation. The table below includes a summary of our principal products. A further description of these products follows the table.

*Broadband Solutions*

<b>Product</b>	<b>Description</b>	<b>Application</b>
GranDSLAM	A DSL access multiplexer chassis that houses different line cards supporting a variety of DSL technologies which enable a variety of access services, including the ability to support line cards that support between four and 24 ports per card.	Typically resides inside an NSP's central office and terminates many DSL lines and aggregates them into a high-speed connection to a network backbone.
ADSL/G.lite	Consists of:  A line card that fits inside the DSL access multiplexer, or DSLAM, and supports asymmetric digital subscriber line, or ADSL, technologies that operate at the highest possible speed based on the quality of the telephone line, and g.lite a lower speed, splitterless asymmetric DSL technology.  A customer premises endpoint that connects the users' equipment to the telephone line.	The card in the DSLAM and the endpoint create a high speed packet connection operating at transmission rates up to 8 megabits per second over a two wire telephone line. Also allows voice to be transmitted at the same time data is being transmitted and allows business partners to provide endpoints that work with Paradyne's DSLAM.
RADSL	Consists of:  A line card that fits inside the DSLAM, and supports ADSL and symmetric digital subscriber line, or SDSL, technologies that operate at the highest possible speed based on the quality of the telephone line.  A stand-alone endpoint that connects the user to the telephone line.	The card in the DSLAM and the endpoint create a high speed packet connection operating at transmission rates up to 7 megabits per second over a two wire telephone line. Also allows voice to be transmitted at the same time data is being transmitted.
MSDSL	Consists of:  A line card that fits inside the DSLAM and supports SDSL technology.  An endpoint that connects the end user equipment to the telephone line.	The card in the DSLAM and the endpoint create a high speed channelized connection operating at transmission rates up to 2 megabits per second over a two wire telephone line. Allows channelized voice to be transmitted at the same time data is being transmitted.



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SDSL

Consists of:

A line card that fits inside the DSLAM and supports SDSL.

An endpoint that connects the end user equipment to the telephone line.

The card in the DSLAM and the endpoint create a high speed ATM based connection operating at transmission rates up to 2 megabits per second over a two wire telephone line. Also allows interoperability with certified business partner provided endpoints and FrameSaver DSL endpoints.

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<b>Product</b>	<b>Description</b>	<b>Application</b>
SDSL /IDSL	<p>Consists of:</p> <p>A high density line card that fits inside the DSLAM and supports SDSL/integrated digital subscriber Line, or IDSL, technology that operates at the highest possible speed based on the quality of the telephone line.</p> <p>An endpoint that connects the end user equipment to the telephone line.</p>	<p>The card in the DSLAM and the endpoint create a high speed connection operating at transmission rates up to 2 megabits per second over a two wire telephone line. IDSL also allows operation through a Digital Loop Carrier (DLC) for service areas that are fed by DLC based connections.</p>
G.SHDSL	<p>Consists of:</p> <p>A line card that fits inside the DSLAM and supports G.SHDSL technology that operates at up to 2 megabits per second.</p> <p>A customer premises endpoint that connects the users equipment to the telephone line.</p>	<p>The card in the DSLAM and the endpoint create a high speed connection operating at transmission rates up to 2 megabits per second over a two wire telephone line. Also allows interoperability with certified business partner provided endpoints and FrameSaver DSL endpoints.</p>
ReachDSL	<p>Consists of:</p> <p>A line card that fits inside the DSLAM and supports ReachDSL technology.</p> <p>An endpoint that connects the end user equipment to the telephone line.</p>	<p>The card in the DSLAM and the endpoint create a high speed packet connection operating at transmission rates up to 2.2 megabits per second over a two wire telephone line. Also allows voice to be transmitted at the same time data is being transmitted.</p>
ADSL/R CPE	<p>An endpoint device that connects the end user equipment to the telephone line using either ADSL or ReachDSL technology.</p>	<p>The ADSL/R endpoint creates a high speed packet connection operating at transmission rates up to 8 megabits per second over a two wire telephone line running ADSL or up to 2.2 megabits per second over a two wire telephone line running ReachDSL technology. Also allows voice to be transmitted at the same time data is being transmitted.</p>
GranDSLAM 4200	<p>A DSL access multiplexer designed to support a single DSL technology (either ADSL or ReachDSL) over a standard telephone wire. This DSLAM is packaged in a small housing that is only one rack-unit in height (referred to as a 1-U DSLAM), making it very conservative in terms of the rack space required to house the unit.</p>	<p>Typically resides inside an NSP's central office or remote terminal cabinet and terminates up to 24 ADSL or ReachDSL lines and aggregates them into a high-speed connection to a network backbone. Ideal for applications where there is very limited physical space to house the DSLAM.</p>
BitStorm 1900 IP DSLAM	<p>From the Elastic Networks acquisition. A DSL access multiplexer chassis designed specifically to support EtherLoop next generation IP DSL technology enabling bi-directional IP bandwidth up to 10 Mbps per line, all compatible with baseband voice on a single pair.</p>	<p>Typically resides inside an NSP's central office or in a building wiring closet and terminates up to 120 EtherLoop lines and aggregates them into a high-speed IP connection to a network backbone.</p>
BitStorm 2400 IP DSLAM	<p>A 1-U DSL access multiplexer designed specifically to support EtherLoop next generation IP DSL technology enabling bi-directional IP bandwidth up to 10 Mbps per line, all compatible with baseband voice on a single pair.</p>	<p>Typically resides inside an NSP's central office or in a building wiring closet and terminates up to 24 EtherLoop lines and aggregates them into a high-speed IP connection to a network backbone.</p>
BitStorm 4800 IP DSLAM	<p>A 1-U DSL access multiplexer designed to support standard ADSL services to a standard ADSL endpoint product at the customer premise, simultaneous with</p>	<p>Typically resides inside an NSP's central office or in a building wiring closet and terminates up to 48 ADSL lines and aggregates them into a high-speed IP</p>

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baseband voice on a single pair.

connection to a network backbone.

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StormPort CPE	From the Elastic Networks acquisition. IP DSL modems enabling baseband voice and bi-directional IP bandwidth up to 10 Mbps.	Typically resides at a customer premise location where the DSL service is terminated by a customer Ethernet port.
FrameSaver SLM (Service Level Management)	Consists of:  A stand-alone endpoint that connects remote offices to a frame relay network. Also available as a line card.  SLM software for monitoring and managing a Frame Relay network.	Many locations are connected to a Frame Relay network and the SLM software is used to make sure each location is operating efficiently per the configuration of the Frame Relay service.

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<b><u>Product</u></b>	<b><u>Description</u></b>	<b><u>Application</u></b>
FrameSaver SDSL	<p>Consists of:</p> <p>A stand-alone endpoint that connects remote offices to an ATM based Frame Relay network and supports symmetric digital subscriber line, or SDSL (2B1Q) technology that operates at the highest possible speed based on the quality of the telephone line.</p> <p>SLM software for monitoring and managing a Frame Relay network.</p>	<p>The SLM software is used to make sure each location connected to the Frame Relay network is operating efficiently per the configuration of the Frame Relay service. FrameSaver SDSL provides the same basic capabilities of the FrameSaver FLEX product, however, it incorporates SDSL as an alternative to T1 or DDS access.</p>
FrameSaver SDSL Router	<p>Consists of:</p> <p>A stand-alone endpoint with an integrated basic router that connects remote offices to an ATM based Frame Relay or IP VPN Network and SDSL technology.</p> <p>Optional SLM software for monitoring and managing a Frame Relay network.</p>	<p>The SLM software is used to make sure each location connected to the Frame Relay network is operating efficiently per the configuration of the Frame Relay service. FrameSaver SDSL provides the same basic capabilities of the FrameSaver FLEX product, however, it incorporates SDSL as an alternative to T1 or DDS access and includes an integrated router.</p>
FrameSaver G.SHDSL	<p>Consists of:</p> <p>A stand-alone endpoint that connects remote offices to an ATM based Frame Relay network and supports standard G.SHDSL technology that operates at the highest possible speed based on the quality of the telephone line.</p> <p>SLM software for monitoring and managing a Frame Relay network.</p>	<p>The SLM software is used to make sure each location connected to the Frame Relay network is operating efficiently per the configuration of the Frame Relay service. FrameSaver G.SHDSL provides the same basic capabilities of the FrameSaver FLEX product, however, it incorporates G.SHDSL as an alternative to T1 or DDS access.</p>
FrameSaver Network to Network	<p>A stand-alone endpoint that connects two Frame Relay networks together.</p>	<p>Allows two different Frame Relay networks to be connected together and support the SLM software applications.</p>
FrameSaver/ATM	<p>A stand-alone endpoint that connects large locations to a Frame Relay network through a 45 megabits per second connection to an ATM network.</p>	<p>Allows one high-speed connection to a Frame Relay network that is more efficient than many lower speed connections.</p>
Jetstream CPX-1000	<p>A standards-based voice gateway chassis that provides all the signaling and interfaces required for broadband access equipment to interface with a standard class-5 telephone switch.</p>	<p>Enables broadband voice services by allowing the interconnection of ATM data streams to a standard class-5 telephone switch, converting the ATM broadband connection to a standard T1 or E1 telephone switch connection.</p>
Acculink Broadband Digital Access	<p>Stand-alone endpoints that transmit data and voice over high-speed circuits. Also available as a line card.</p>	<p>Allows voice and data traffic to share a single, high-speed circuit to a variety of backbone networks.</p>
NextEdge	<p>A stand-alone endpoint that supports many data and voice connections over several high-speed circuits. Also supports the FrameSaver SLM system.</p>	<p>Allows many different data and voice services at a remote office to share one or two high-speed circuits to a variety of backbone networks. In addition, it can be integrated into a FrameSaver SLM system.</p>

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<b><u>Product</u></b>	<b><u>Description</u></b>	<b><u>Application</u></b>
Comsphere Subrate Digital Access	Stand-alone and line card products that support data transmission over digital network facilities.	Allows data services to be connected over digital leased lines at narrowband speeds.
Comsphere Modems	Stand-alone and line card products that support data transmission over analog network facilities.	Dial-up and leased line modems that allow narrowband connectivity over analog lines

*Network Management Solutions*

OpenLane Network Management System	Software for managing networks built with Paradyne products.	Used as a stand-alone system or part of a larger system to manage all the Paradyne products deployed in a network.
GrandView Network Management System	Software for managing networks built with Paradyne GrandDSLAM or Bitstorm Products.	Used as a stand-alone system or part of a larger system to manage all the Paradyne GrandDSLAM or Bitstorm products deployed in a network.

**Broadband Solutions****Broadband DSL**

The multiservices system includes DSLAM termination equipment, which provides aggregation of services in the central office, and an array of customer premises equipment, which extend various broadband access services over the local loop to the customer premise. The system supports a range of broadband multimedia access services, such as business and residential Internet access, remote local area networks access and virtual private network access at symmetric rates (similar transmission rate for sending and receiving data over the same line) of up to 2 Mbps and asymmetric rates (varying transmission rates for sending and receiving data over the same line) of up to 8 Mbps. It also supports Frame Relay, ATM and T1/E1 channelized access to the wide area networks. With channelized access, customers can send and receive voice or data traffic on different channels. For example, channels 1-12 could be used to send data while channels 13-24 could be used to send voice. In addition to supporting high density configurations for central office applications, the efficient packaging for lower density market entry applications allows products to be deployed in a variety of private copper networks, including multi-dwelling-units for both business and residential access services, universities, hotels, and government campus private networks.

Our primary customers for our DSL products are CLECs, incumbent carriers and other NSPs. An increasing segment of our DSL customer base is emerging in the international markets, which are expanding through deregulation and the rapidly growing interest in developing countries for broadband DSL. Our products are easily installed, scaleable and operate over long loops, which enhance an NSP's ability to deploy them quickly and service new customers. Additionally, these qualities allow our NSP customers to supply symmetric services to their business customers and asymmetric services to their consumer customers or they may want to use ATM on some backbone connections and Frame Relay on other backbone connections. The system can be configured, monitored and controlled through our GrandView network management system which provides complete end-to-end management and reporting coverage of the entire broadband DSL access solution.

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Our DSL products consist of two major product categories, DSLAMs and customer premises equipment.

*Multiservices GrandDSLAMs:* A DSLAM is a DSL access multiplexer installed in NSPs' central offices and private copper networks that provides termination and aggregation of multiple DSL lines and associated services protocol translation. Paradyne's Multiservices DSLAMs are called the GrandDSLAM. The GrandDSLAM systems consist of network equipment building standard (NEBS) certified chassis and associated DSL line cards, and an aggregation system with a variety of wide area network options and a standards based network management system. Network equipment building standard certification is generally necessary in order for a product to be installed in the central office of an NSP. Key features of a GrandDSLAM system include:

the ability to support line cards that support between four and 24 ports per card;

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multiple DSLAM configurations, which include our highly-compact, stackable DSLAM supporting as few as 4-8 DSL lines which is scalable to 68 lines and our high-density DSLAM supporting as many as 432 lines per shelf;

the ability to support a range of voice and data applications that operate over packet technologies and channelized access technologies;

a broad set of available interfaces to consolidate traffic onto a backbone network. These interfaces operate from between 1.544 Mbps up to 155 Mbps in asynchronous transfer mode and up to gigabit speeds to support Ethernet or up to 45 Mbps to support Frame Relay. These interfaces include: 10base-T, 100base-T, Channelized T1 and E1, Frame Relay T1 and E1 and T1, NxT1, DS-3, E3, STM-1 and OC3 asynchronous transfer mode; and

a simple network management protocol compliant distributed network management architecture that supports efficient network management required for large NSP network deployments.

DSL customer premises equipment: DSL customer premises equipment terminates DSL access services at the customer premise for connectivity to local area networks, personal computers, routers and other voice and data equipment. Customer premises equipment operates at a variety of transmission speeds and loop lengths to meet the needs of our customers. Customer premises equipment and associated DSLAM line cards support multiple DSL technologies. In addition to developing our own DSL customer premises equipment, we certify interoperability with other industry leaders to provide our customers with a broader range of endpoints and expand the total service opportunities supported by our system.

*BitStorm.* As a result of the Elastic Networks acquisition in March 2002, we now develop, manufacture and distribute the BitStorm family of products. The BitStorm system includes (1) the BitStorm 1900 IP DSLAM, the BitStorm 2400 IP DSLAM and the BitStorm 4800 IP DSLAM, which provide aggregation of services in the central office or the building wiring closet, and (2) StormPort customer premises equipment, which extends broadband access services over the local loop to the customer premise. The system supports a range of broadband multimedia access services, such as business and residential Internet access, remote local area networks access and virtual private network access at symmetric rates (similar transmission rate for sending and receiving data over the same line) of up to 10 Mbps. BitStorm products are ideal for multi-dwelling units for both business and residential access services, universities, hotels, and government campus private networks.

Our primary customers for BitStorm products are in-building network providers, hotel and hospitality network providers and incumbent carriers and other NSPs. Some of our BitStorm products use our patented EtherLoop technology, which is easily installed, scaleable and operates over long loops, which enhance an NSP's ability to deploy them quickly and service new customer applications. Additionally, EtherLoop can deliver bandwidth up to 10 Mbps over relatively short loops, which enables high-quality video services, internet access and baseband voice to be simultaneously offered. The BitStorm system can be configured, monitored and controlled through our GrandView network management system, which provides complete end-to-end management and reporting coverage of the entire broadband access solution.

BitStorm products consist of two major product categories, a selection of DSLAMs and customer premises equipment.



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**BitStorm 1900 IP DSLAM:** A DSLAM is a DSL access multiplexer installed in NSPs' central offices and private copper networks that provides termination and aggregation of multiple DSL lines. The BitStorm 1900 IP DSLAM consists of network equipment building standard (NEBS) certified chassis and associated EtherLoop line cards, and an aggregation system for IP networks and a standards based network management system. Network equipment building standard certification is generally necessary in order for a product to be installed in the central office of an NSP. Key features of a BitStorm 1900 IP DSLAM system include:

the ability to support EtherLoop line cards that support up to 12 ports per card;

the ability to support a range of voice and data applications that operate over packet technologies; and

a simple network management protocol compliant distributed network management architecture that supports efficient network management required for large network deployments.

**BitStorm 2400 IP DSLAM:** The BitStorm 2400 IP DSLAM is a compact, 1-U (one rack unit in height) device that incorporates 24 dedicated EtherLoop ports, and a high-speed aggregation uplink for IP networks. As subscriber requirements grow, units may be stacked to provide as many as 192 ports. Key features of a BitStorm 2400 IP DSLAM system include:

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the ability to support up to 24 EtherLoop ports;

the ability to support a range of voice and data applications that operate over packet technologies; and

a simple network management protocol compliant distributed network management architecture that supports efficient network management required for large or small network deployments.

**BitStorm 4800 IP DSLAM:** The BitStorm 4800 IP DSLAM is a compact, 1-U device that incorporates either 24 or 48 dedicated ADSL ports, and a high-speed aggregation uplink for IP networks. As subscriber requirements grow, units may be stacked to provide as many as 384 ports. Key features of a BitStorm 4800 IP DSLAM system include:

the ability to support up to 24 or 48 ADSL ports;

the ability to connect to a wide range of industry standard ADSL endpoints;

the ability to support a range of voice and data applications that operate over packet technologies; and

a simple network management protocol compliant distributed network management architecture that supports efficient network management required for large or small network deployments.

**StormPort customer premises equipment:** BitStorm customer premises equipment terminates DSL access services at the customer premise for connectivity to local area networks, personal computers, routers and other voice and data equipment. BitStorm StormPort customer premises equipment operates at a variety of transmission speeds and loop lengths to meet the needs of our customers. StormPort customer premises equipment and associated DSLAM line cards support our patented EtherLoop technology, which enables speeds of up to 10 Mbps across the standard copper loop.

**DSL technology innovation:** We expect to continue to implement multiple DSL technologies in our products, and, consistent with market requirements, to implement additional DSL technologies as they become available and accepted in the market. While we purchase some of the DSL technologies implemented in the GranDSLAM and customer premises equipment, our ReachDSL product represents a unique DSL technology developed and implemented by us that does not require a telephone line splitter and works over very long loops. The primary advantages of ReachDSL technology are:

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simultaneous voice and data capability over copper loops up to 24,000 feet (compared with ADSL which typically operates up to 15,000 feet) unaffected by multiple terminations of copper loop, commonly known as bridged taps, which provides for ease of customer installation and eliminates need for rewiring at