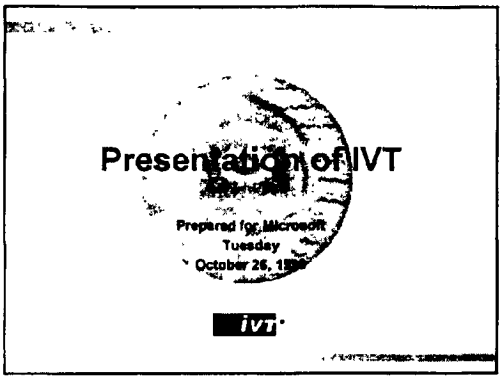
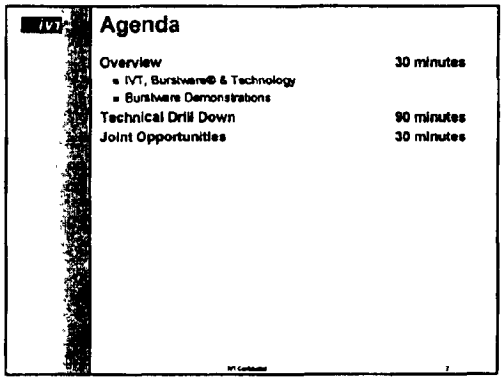
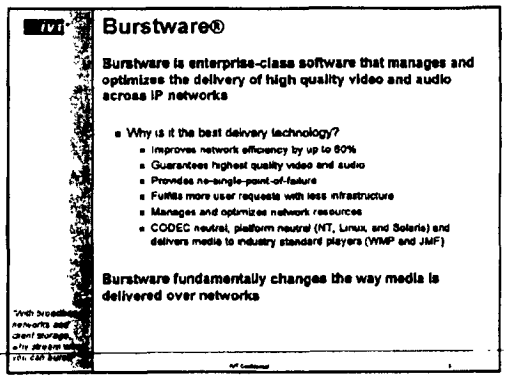






IVT

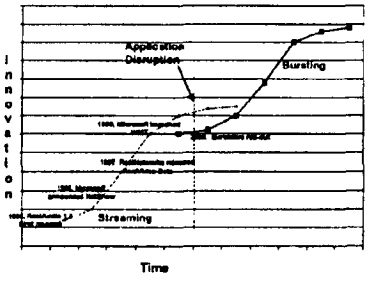
Leading developer of Burst-Enabled video and audio delivery and network management software

- IVT's product, Burstware®
  - Utilizes several components of IVT's intellectual property such as the Faster-Than-Real Time™ delivery method
- IP Portfolio began in 1998
  - 6 U.S. patents 1 allowed
  - 5 International patents issued 2 granted
  - Additional pending both U.S. and abroad
  - IVT patents cited as prior art for over 200 issued patents
- IVT Growth
  - 500% employee growth totaling 80 employees in Q4 1999
  - Projected revenues of $2.6 mln in 1999
    - Oracle
    - Informix
    - TIVO
    - Reiki

IVT innovation of digital delivery solutions.

Technology Shift

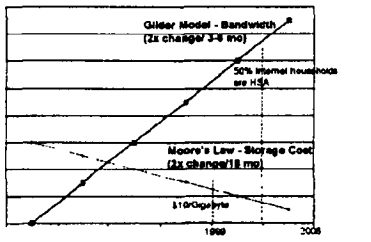
Technology S Curves (Christenson)



*Real-time streaming was developed as a narrowband solution. The market is demanding a broadband solution. Burstware fulfills that demand.

Bandwidth and Storage

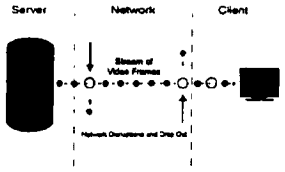
Burstware takes advantage of industry trends



Broadband is a reality. 13.1 Businesses to consumers have high-speed access in 1999. Gigabyte of storage is prevalent

*Burstware increases bandwidth and local storage advantage. Take these available resources. Burstware increases throughput by 50%.

Real-Time Streaming Protocols



Real-time streaming delivers media at a constant bit rate

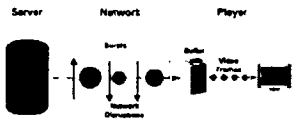
- Remote play architecture

Continuous exposure to network conditions

- Network conditions degrade quality
- Noise, latency, breakdowns

Note: Even with a buffer clients using real-time streaming technology are not isolated from network noise

Bursting Protocol



Managed Bursts Prevent Video Disruptions

- Local play from buffer with full synchronization

Burst-filled buffers isolate client from network conditions

- Faster-Than-Real-Time Architecture
  - Client requests, server schedules bursts
  - Client provides status to server

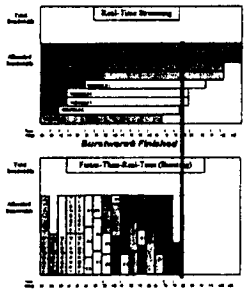
Bursting vs. Real-Time Streaming

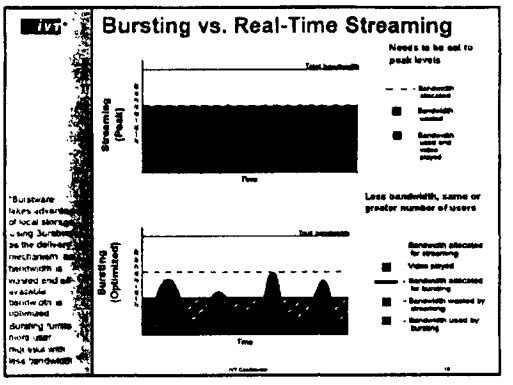
Real-Time

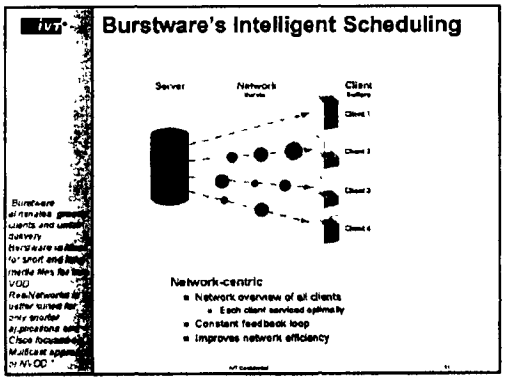
- Each additional real-time viewer reserves or stays additional bandwidth for the duration of viewing
- Once allocated bandwidth has been reached, no additional clients are allowed

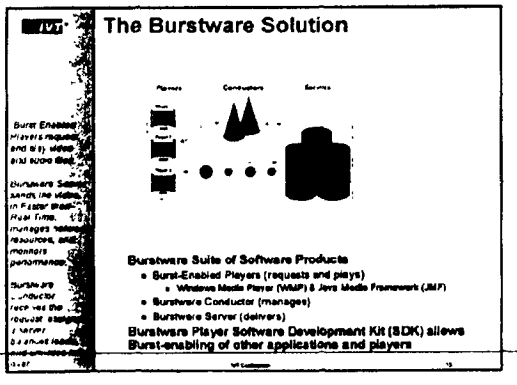
Bursting

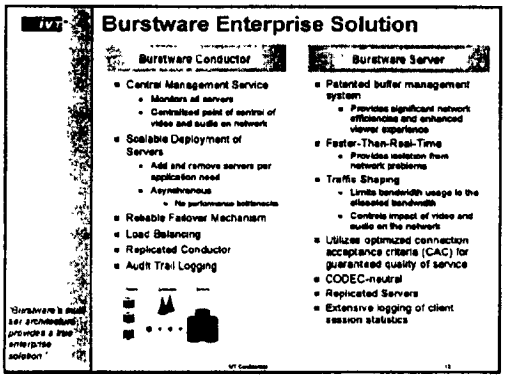
- Takes advantage of low cost storage and available bandwidth
- Using buffers, the video can be delivered when needed rather than at a predetermined rate
- As compared to the Real Time streaming, up to 60% improvement in utilization
- Guaranteed quality

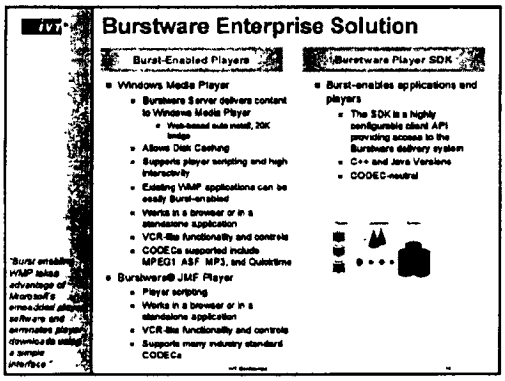


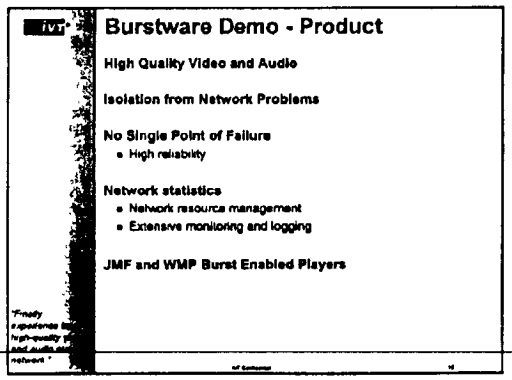












Burstware Demo - Internet

Internet Demo

- Test internet connection / bandwidth
- Display maximum and minimum bandwidth availability
- Provide selection of content appropriate for the bandwidth availability
- Downloadable or CDROM Burstware installation
- Demonstration of Burstware delivering content over the Internet

"The Burstware internet demo... ments the ability of a new era to successfully delivering high... quality broadband... content over the... internet."

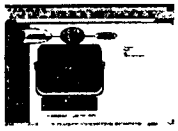
Burstware Demo - The Lucy Channel

Burstware's I Love Lucy Channel

- Public Channel
  - True VOD
    - Any episode available at any time
  - Chat Room
  - Lucy links

Demonstration

- Bandwidth Sniffer
- Lucy Episode is played on a Burst-Enabled WMP
- Web TV



"Experience true VOD over the internet, anywhere."

Areas of IP (partial)

Moving Video and Audio for TV to Set Top Box and Computer Playback

I. Delivery mechanism

- Faster-Than-Real-Time
  - HW/SW
  - Neutral to compression, protocols, network types
  - Satellite, microwave, other systems
- Buffer/Caching Control
- Compression/Decompression
- Content Management
  - Faster-than-real-time caching of video & audio content in networked servers/repeaters

II. Combination of Burst & real-time at client side

III. Specific algorithms

- Buffer/Caching Control
- Network Intelligence
  - Dynamic measurement of network conditions
  - Low bandwidth control and response sequences
  - Can be placed in IC's

IV. Rapidcasting

- NVOD push architecture

V. Timeshift TV

- Cyclical buffering
- Multicast Function

"Set top boxes can finally deliver TV-quality video and audio."

Categories of IP Licensees (partial)

Software

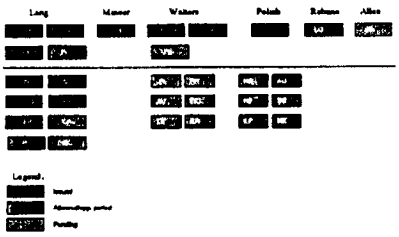
- Video/Audio Streaming Companies
  - Delivery layer
- Store and Forward/Caching Systems
  - Server-to-server content management
- Settop Manufacturers
  - Timeshift functionality in real-time
- Television Manufacturers
- Server Manufacturers

Hardware

- Integrated Circuits
- Network Appliances

" In addition to Burstware product sales, IVT offers licensing opportunities covering extensive patent portfolio "

IVT's Family of Patents (Oct 1999)



Technical Drill Down

Questions and Answers
Upcoming Features
QoS
Real-Time Streaming vs. Bursting

- Latency and Packet Loss

Burstware Architecture
Simulator Demo

Burstware Upcoming Features

Planned Release Features

- Centralized Content Management
  - Allows the administrator to examine organize search and distribute content across multiple servers
  - New user interface and pull down menus
- Centralized Configuration Management
  - Enables configuration of the system from a central point
  - Administrator no longer has to configure each individual server and conductor
- Centralized Monitoring
  - Monitor status of setup from a central point
  - Monitor parameters such as
    - available bandwidth
    - Number of concurrent users
    - Server activity etc

Burstware's next major release targets servers, server and content management features

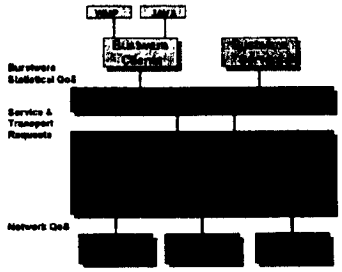
Burstware Upcoming Features (cont'd)

Planned Release Features

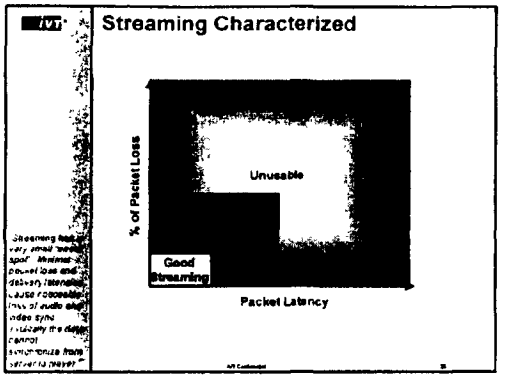
- Intelligent Routing
  - Conductor tracks server status and availability
  - Content is sent from the most appropriate server, based on criteria such as
    - Where content is located
    - Proximity of server to client
    - Server load
- Support for Multiple Conductor Domains
  - A central management point to manage multiple conductor sets or "domains"
- Scheduled Multicast
  - Multicast delivery of archival materials
  - Delivery can be scheduled ahead of time and schedules provided to clients
- Enhancements to Burst-enabled WMP
  - Advanced content management functions will be integrated into WMP
- Burst-Enable other players

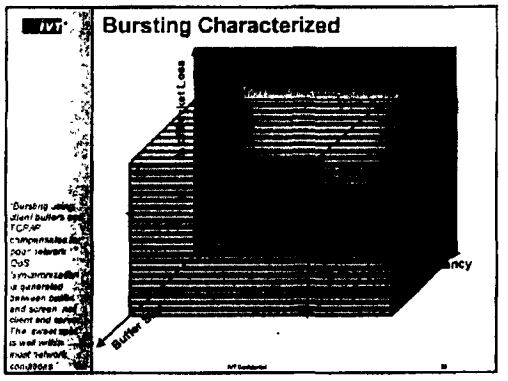
"Burstware will continue to support and enable other industry standard players, enabling a single delivery source for your desktop player of choice."

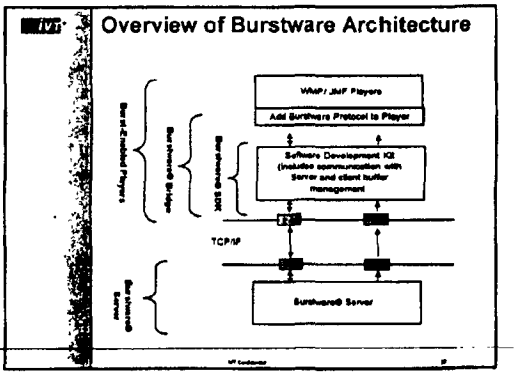
QoS At The Top: Cost Effective Solution



Burstware employs a statistical QoS software process at the application layer. This is in reality hardware and software solutions implemented at the network layer. Integration issues are reduced and interactions are simplified."


Streaming Characterized
% of Packet Loss
Unusable
Good Streaming
Packet Latency


Bursting Characterized


Overview of Burstware Architecture
TCP/IP

The Burstware Simulator

Quantifies the benefits of delivering media with Burstware

- Includes actual Burstware scheduling algorithms

Models both a network and an application

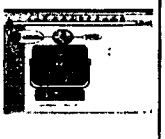
- Compares real-time streaming to Burstware using the parameters of the model
- Shows Burstware's ability to intelligently take advantage of local storage

Results show up to 60% network throughput improvement using Burstware as the delivery mechanism

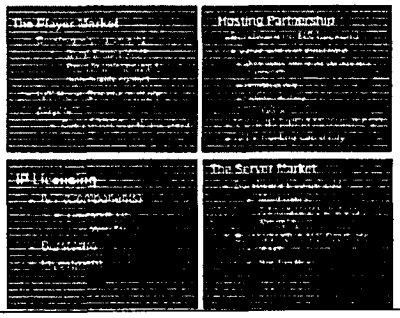
Joint Business Opportunities

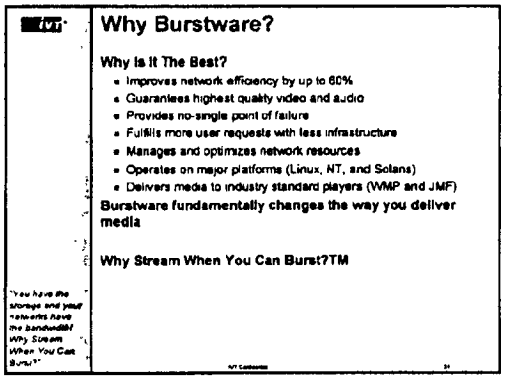
Burstware Makes the Killer Application

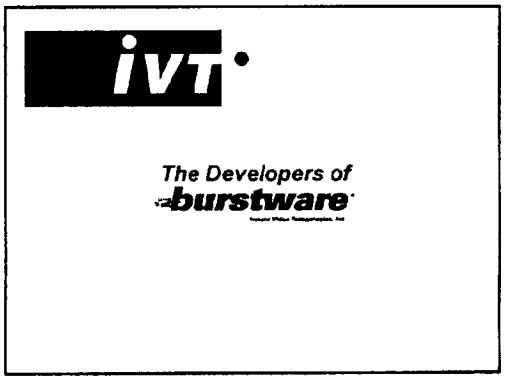
- Burstware's I Love Lucy Channel
  - Public Channel
  - VOD
    - Any episode available at any time
  - Chat Room
  - Lucy links
- Stickiness/Unique?
  - Quality
  - Reliability
  - Scalability
  - Cost
  - No download time
- Modern Revenue Models
  - VOD
  - Advertising
  - Merchandising

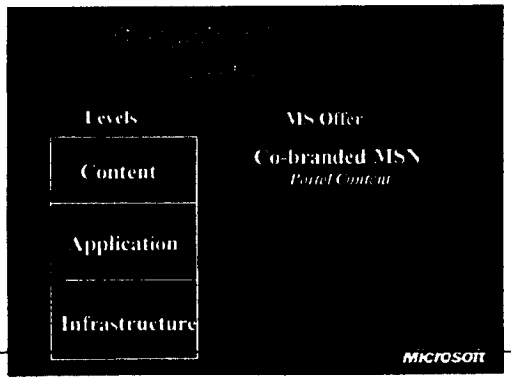


Joint Opportunities




Why Burstware?
Why Is It The Best?
Improves network efficiency by up to 60%
Guarantees highest quality video and audio
Provides no-single point of failure
Fulfills more user requests with less infrastructure
Manages and optimizes network resources
Operates on major platforms (Linux, NT, and Solaris)
Delivers media to industry standard players (WMP and JMF)
Burstware fundamentally changes the way you deliver media
Why Stream When You Can Burst?TM


The Developers of
burstware


Levels
MS Offer
Content
Co-branded MSN
Application
Infrastructure
MICROSOFT

Portals as a Destination

On the Internet you can't force anyone to a destination, nor to use a particular service

Churn is an industry problem

Winning portals combine:

- High utility applications measured in frequency of use
- Industry/category leading content
- High value

Microsoft

Microsoft's Commercial Hosting [illegible]

Offer commercial providers platform and business model to develop service targeted at consumer, small, middle and enterprise markets.

Provide the leading extensible platform for hosting application services

- Web enable ALL business client and server applications
- Drive ISV and developer community support
- Interoperate with existing back end platforms

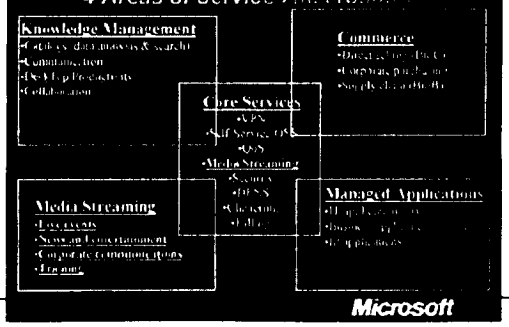
Integrate core services for network infrastructure into NT

- Establish industry partnerships
- Embrace industry standards

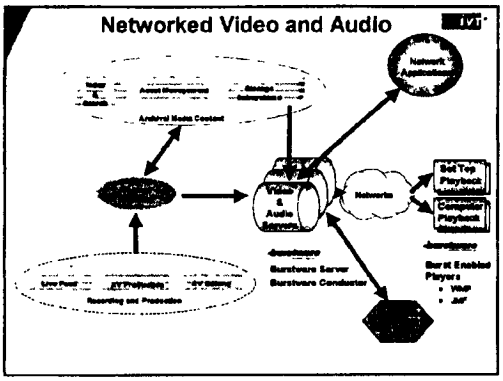
Microsoft

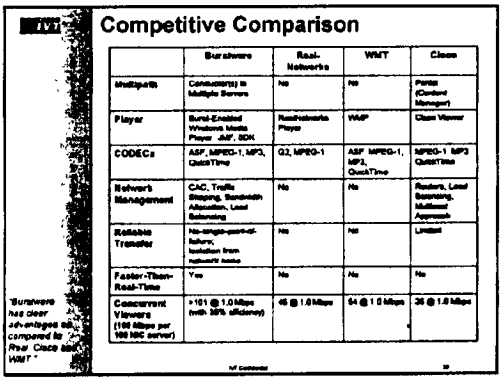
Commercial Hosting Services

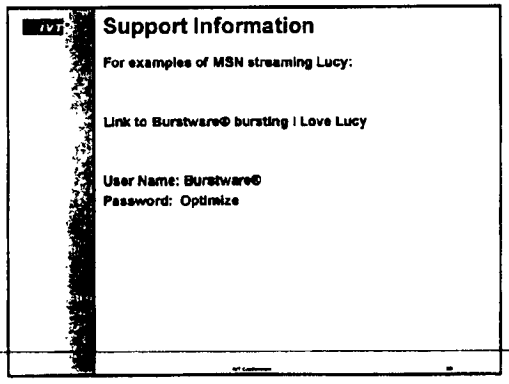
4 Areas of Services [illegible]



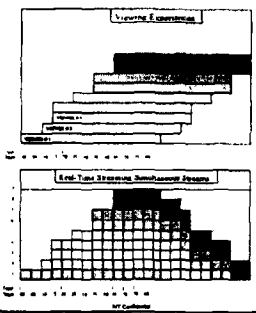
Microsoft



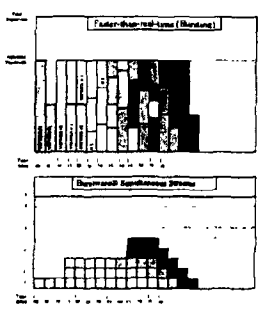




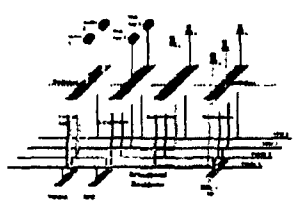
Streaming vs. Burstware



Streaming vs. Burstware



Media Delivery & Public/Private Networks



Next generation bundles broadband access & services

- LANs subject to local problems - systems on both sides of WAN
- Service Providers guaranteeing QoS on WAN only
- Combined LAN/WAN media transmission must be handled as homogeneous solution

Burstware's statistical QoS is architected for today's emerging networks

Burstware Partner Program

Program Features
- Strategic alliances development
- Bundling relationships
- Application development

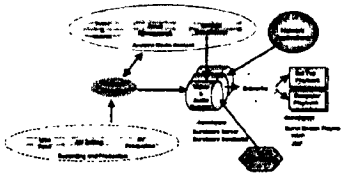
Target Market
- Technology leaders working together to offer the optimal end-to-end solution for networked video and audio

Program Features
- Solutions-Oriented Platform
- Ensure Burstware® compatibility and simplify bundling
- Co-marketing and joint sales opportunities
- Input on future product direction

Burstware Partner Program

Solutions-Oriented Platform
- A "Plug-Compatible" Solutions Platform
  - Total systems solution
  - Total Application Solution
    - Software
    - Hardware

Markets
- Video/Audio Streaming Companies
- Store and Forward/Caching Systems
- Set-top Manufacturers
- Television Manufacturers
- Server Manufacturers
- Integrated Circuits
- Network Appliances



Regional Sales Offices

Sales - Signed Deals

Digital Creators/Teletech (Direct Sale & Reseller - Beta Conversion)
- 2nd largest inbound call center worldwide
- Inbound customer care
- Training

RMSI
- Leading systems integrator
  - Targeting the commercial and government segments
  - Use Burstware in-house and resale

EMS
- Leading high tech MIVAR with focus in Great Britain, France and Germany

TVN
- IP Licensing
- Satellite to head-end

Clover
- One of the world's largest system integrators and award-winning communications technology expert.
- Two-year distribution agreement to market and distribute Burstware®

istream
- Leading media delivery company that offers encoding and other integrated solutions
- Multi-year, multi million resale agreement

Carsey-Werner LLC (Direct Sale - Beta Conversion)
- Producers of "Roseanne", "3rd Rock From The Sun", etc
- Post-production & daily rushes

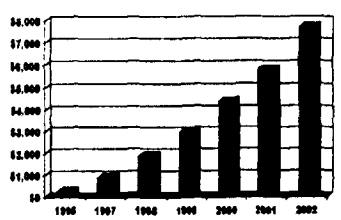
"For a complete sales list, please contact IVT"

Burstware Support Services

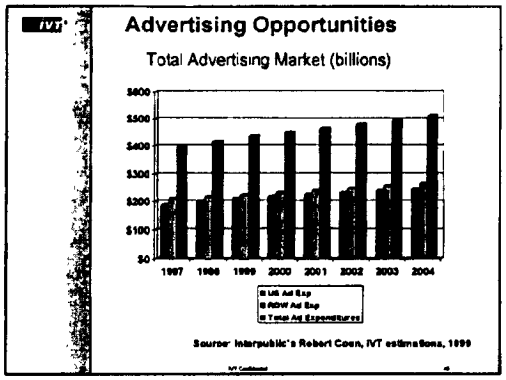
Two Support Packages (standard and customized)
- A Burstware Product Support Services Pack
  - Free upgrades to Version 2.0
  - Access to IVT's secure developers web site
    - Web site
  - Technical help desk support
    - 1-800 support
- Burstware Professional Services Pack
  - All services of Burstware Product Support Service Pack
  - Additional customized support
  - On-site consultation

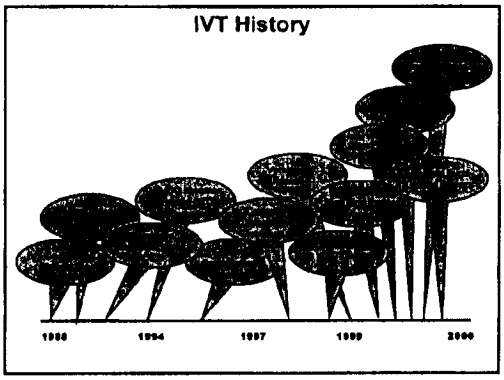
Advertising Opportunities

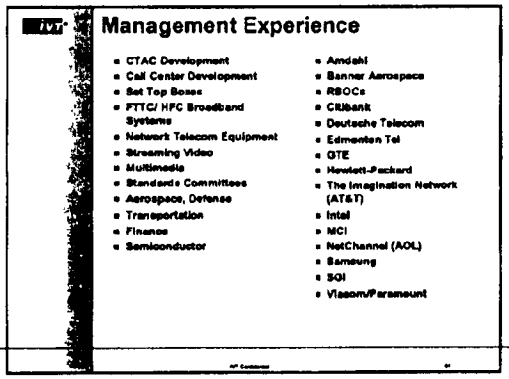
Total Online Advertising Market (millions)



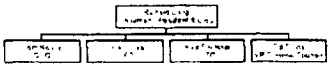
Source: Jupiter Communications, 1996







Executive/Operational Organization



Executive/Operational – Management

Richard Lang, Co-Founder, Chairman, President & CEO

- Co-founding IVT in 1986
- Inventor of record for bulk of company's IP
- Presided over the development of the company's patent portfolio over 10 years
- Previously held the positions of President, CEO, Chairman and Vice-Chairman
- Member of the company's Board of Directors since the company's inception
- Co-founder and CEO of Go-Video, Inc., Scottsdale, Arizona and co-inventor of Go-Video's patented dual-deck VCRs

Executive/Operational– Management

Tom Koshy, COO

- 25 years of experience in managing telecommunications engineering, project management, software development, and fiber optic network operations
- Manage large engineering projects up to $250 mln
- Developed efficient organizations to fit process needs in telecommunications environment
- BS Civil Engineering, MBA, MS (Telecom Management)

Executive/Operational– Management

Ed Davis, VP General Counsel

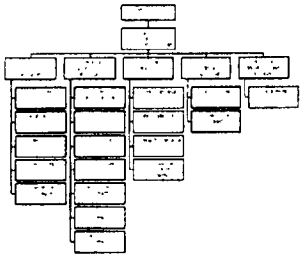
- 20 years legal experience as Corporate Counsel for Pacific Telesis Group, Financial & Tax Counsel Arthur Anderson & Co., Trial Counsel for the City & County of San Francisco
- As Corporate Counsel, advised PTG consolidated companies, including Nevada Bell, Tele-TV, Pacific Bell Video Services, Pacific Bell Information Services, and Pacific Bell Directory
- Significant experience in mergers and acquisitions, taxation, intellectual property, and criminal prosecution
- LLM, JD, and BA
- Bar Memberships: California Supreme Court, Ninth Circuit Court of Appeals, US District Court, US Tax Court

Executive/Operational– Management

Richard Jones, CFO

- 25 + years experience with high tech, emerging growth companies, including $40 MM enterprise PDM software company Sherpa Corporation
- Extensive experience with both public and private/pre-IPO concerns supporting IPOs, acquisitions and other funding programs
- Majors on establishing strong accounting systems, controls and strategic plans in order to facilitate successful growth
- BS from University of Illinois and CPA certification

Technology – Organization



Technology - Management

Kyle Faulkner, CTO

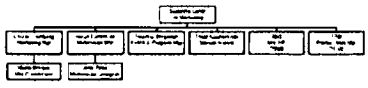
- 16+ years experience in software development
- 4 years experience in hardware development
- Key contributor on more than 20 commercially successful products
- Founding team at Sybase and Forté Software
- Software architect for a number of other companies including Network Equipment Corporation and Calinet Data Systems
- BSEE Case Western Reserve University

Technology - Management

June White, VP of Engineering

- Managed all aspects of software development for over 20 years
  - Emphasis on establishing processes that are required to support the product's life cycle
- Key contributor to the launch of many new products including Forté's Application Development Environment, ROLM's Phonemail, and Control Data's Operating Systems
- Built QA and Release Management organizations in order to ship high quality products
- B.A. Mathematics, Harvard University

Marketing Organization

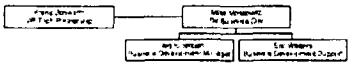


Marketing - Management

Suzanne Lentz, Director of Marketing

- 10 years experience in high tech markets, including corporate marketing, software development, sales, and business development
- Founding team member of Asia Market Intelligence Business Consulting division in Hong Kong
- 5 years experience in semiconductor industry in the sales and marketing division
- BS Mechanical Management Engineering, UOP

Business Development Organization



Frank Schwartz

VP of Business Development

- 25 years of experience in business development, strategic planning, hardware and software development, large scale database integration, systems and network integration, large scale infrastructure planning, intellectual property, and technical standards
- Founding chairman of the VESA Open Set Top Standards Committee for interactive television
- Provided strategic planning for major corporations in telecommunications, computing, medical, and entertainment
  - Technical Producer of Hollywood's Creative Artists Agency/Intel Media Lab
- Developing guidelines and providing advice and guidance to the FCC and industry organizations including the NAB, NCTA and EIA for public network technologies
- Industry commentator, lecturer, and seminar professor
  - Stanford Graduate School of Engineering
  - American Film Institute

Mike Moskowitz

Director of Strategic Relations

- 10 years experience high tech in imaging and video
- Over 5 years of experience focused on streaming video industry
  - SGI 1995 – 1999 Senior Business Development and Engineering Manager for SGI's MPEG-2 and Broadcast Video Servers; principally involved in SGI's VOD deployments in Orlando and NY
  - 1994 – 1995 UCSF Medical Center Performed fundamental research on transmission of Digital Images over TCP/IP Networks
- Current: advisor for WAMNET's roll-out of wideband video services
- Ph D , Dartmouth College - over 15 papers in journals related to image & video transmission

Sales Organization