

a unique software based multiparty, multipoint videoconferencing solution on multicast network transmission protocol

INTELLISYS Technologies & Research Ltd

a consortium of beautiful minds

Vennfer



"Vennfer" - Virtual enterprise network Conferencing

Introduction

INTELLISYS

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the year 1996, INTELLISYS developed Insurance Technologies Inc., USA (Warrior Insurance Group In The 2nd Cube architecture of this product won the 1st prize in Windows Open World, (COMDEX 1996).



Warrior Brings Continents Together for Software Development





Partner Spotlight



Execute food tried in America: Cons-

- things he plans on bringing back to India



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→ In the year 2000, we launched India's first e-learning Management System "enlitor" to facilitate technology enabled learning across the country and created a Global Education Delivery model.









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→ In the year 2001, we in collaboration with NSE.IT launched the countries first technology enabled learning platform "Finvarsity" for the financial services market in the country including Banks , Financial Institutions and Stock Exchanges.











- → NSE.iT is the third largest Stock Exchange in the world and runs one of the largest VSAT implementations in the country with over 3000 VSATs, 10000 leased lines doing about 2.2 million end to end transactions every 5.5 hours, our Learning Management Solution has proven expertise on the on the Intranet platforms
- → In the year 2002, implemented one of the largest LMS UNTEC projects in the country at MSBTE connecting over 141 engineering colleges with over 1,40,000 students
- → We were invited by the United Nations Technical Education Committee to submit a paper and deliver a lecture on how to enable learning across a wire



→ In the year 2003, in a global search Microsoft has awarded "enfilor" product under the Microsoft Solution Builder Program and has also published a Asia Pacific Case Study on the same

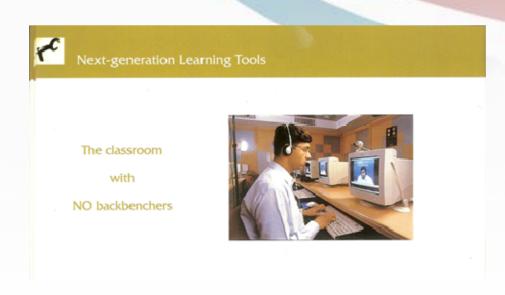


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→ In the year 2004, we in collaboration with our telecom partner HUGHES enabled numerous educational institutes in the country to conduct live classrooms beyond their campus across the country in 40 cities in India







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→ In the year 2005 & 2007, NASSCOM has listed us in its directory of the most INNOVATIVE IT organisations in the country





www.Intellisysin.com

Intelsys Technologies Private Limited

Year of Establishment - 199

Area of specialisation Field of Innovation e-Learning and Live Collaboration

e-Learning solution

Intellige started operations in 1994 ea on IRM Business Partner. The company is a Microsoft BV and Certified Partner and focused on the morket for Multi-fier Client Server Computing in a Datributing Computing Environment, coasting E-Business and Cliqued Criented Sechnologies. Intellige has started fire at software development Rocilies, in the USA and India. Intellige become the offshore software development partner of Cutodiant II Schrologies (Inc., USA, and jointly developed the Insurances Mostero software, a mission, critical enterprise Serel application for the Insurance Industry.

The Innovation

"eather" is an advanced e-Lemming solution based on a highly sophisticated solvense engine jointly developed by Intellips and NSE/T Ud. The product integrates technology for improving the conventional dispersal of knowledge, both in terms of delivery and encention.

Built on state-of-the-art Nicrosoft Technologies and open Source Technologies, it is capable of deploying contents like test, audio, live motion ridden, interactive and streaming multi-media through the laternal, Interact, LAN, WAN, Broadband, VSM, fives providing a highly interactive learning medium through Virtual Classrooms.

- Kay Achievements
- Within a short spon, "enitror" has emerged as a leading e-Learning soliution in the country.
- "enlitor" currently has over 15 e-Learning implementations across corporates, educational institutes and the government.
- Over 6000-concurrent user licenses of "enlittor" has been sold till now along over 5 Unlimited User Server Licenses.

Potential Market

In a country like India with a huge population base, "eather" as a Learning management System has a huge potential in the all the cooponies, education and genement segments. A significant international market approximity also exists flor this product. The company is suggeting regions such as the AFMC, US, Gulf, Africa and Europe.

IT innovation in India

www.inmoverfon.nesscom.in

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→ One of the recent most successful demonstration of "enlitor" was for EDUSAT Programme (jointly with HUGHES) which was launched by the Honourable president of India Dr. A.P.J. Abdul Kalam on the 28th of July, 2005 at











INTELLISYS's is a company focusing on high-end collaborative research and development efforts in the field of technology enabled collaboration, unified communication and videoconferencing is one of the first of its kind in the country in the following areas:

- **→** Live collaboration components
- → Software based multiparty, multipoint videoconferencing product / application
- → High definition collaboration components development of H.264 / H.265 high definition codec on multicast network transmission protocol
- → Tele-medicine Tele-consultation, Tell-monitoring, Tele-mentoring, Tele-presence, Continuing Medical Education and virtual reality based 3D training
- → Tele-education Live collaboration studio and remote classroom based Learning
- → Tele-banking Videobanking applications
- **→** Telecom Videoconferencing on demand applications
- Mobile Communication Technologies Advanced 3G mobile multiparty videoconferencing application
- **→ 3D** Videoconferencing & Content Generation Application



- Our study on the hardware end point VC equipment manufactures's namely Polycom, Tanberg and Sony
- Our findings Unicast was being used as a network transmission protocol which would always be a bandwidth multiplier and hence impact scalability and for HD thiswould multiply manifold
- Usage of MCU for multiparty conferencing
- → There was no solution that could integrate users on the boardrooms, PCs, Laptops and Mobiles in one integrated conference
- Our Solution Development of H.264 / H.265 High definition Video Codec's
- → Integrate the same with Multicast as a network transmission protocol
- → The result A unique software based videoconferencing solution "Vennfer" which would be robust and highly scalable, platform and network independent solution which would not only be unique for the country but also globally and can revolutionize the way Videoconferencing is done worldwide



- "Vennfer" is an advanced, powerful, robust and scalable video conferencing solution
- → It is platform independent as it runs both on hardware(including Desktops, Laptops and mobiles) & software
- → It is display device independent as it runs on any kind display LED, LCD, Plasma,
- Projectors, TVs, PC Screens, Laptop Screens and Mobile Screens
- → It is camera independent as it runs on any kind of cameras High-end PTZ, Handycam, Webcam, and Mobiles
- It is network independent as it runs on any kind of Network Leased Lines, VSATs, MPLS VPNS,
- → ILLs, Broadband and High Speed Datacards(HSD)
- → It is a complete IP based video conferencing solution that enables real-time audio, video, and data communication over LAN, WAN (leased lines, VSATs, VPNs) and broadband by using TCPIP multicasting technology thus conserving real time bandwidth in case of synchronous audio and video delivery at multipoint locations thus, providing a highly interactive communication medium



"Vennfer" runs on any IP based communication network which can support multicast over TCP/IP

- Intranets
- Leased Lines
- VSATs
- VPNs
- Broadband
- HSD Datacards
- CDMA
- 3G Mobile Networks (In progress)





- Developed a unique software based H.264 / H.265 compliant multiparty, multipoint videoconferencing solution on the multicast network transmission protocol
- → The solution is purely software based and does not use any hardware based MCU for multiparty, multipoint videoconferencing
- → The product would save between 50-65% of the capital cost of acquisition as compared to any traditional hardware based videoconferencing system
- → The product would save 40-60% of the recurring bandwidth cost as compared to any traditional hardware based videoconferencing solution



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→ Wheoconferencing Market Trend

"There are going to be a few thousand boardrooms, few million PCs and a few billion handsets" Estimated global market size is USD 9 Billion as per Frost & Sullivan projections of the growth of overall collaborative technology market.



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Through "Vennfer" we not only have a unique product in the country but also globally as per our understanding and our solution can revolutionize the way videoconferencing is done worldwide

India
USA
UK
Germany
Japan
Singapore
Australia
Africa





Videoconferencing Landscape



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Boardrooms

- Currently controls 85%+ of the Global market share
- · Works in a CUG
- · Works on unicast
- Requires expensive hardware based MCUs to scale up beyond 4 locations
- is bandwidth hungry with high OPEX
- comes with a high CAPEX
- Does not run effectively on all networks

PCs/Laptops

 Competition requires MCUs to enable a multiparty conference even using software clients hence the total purpose of the software client fails

Mobiles

 There is no competitive offering in this segment against "Vennfer"

Internet

- Currently has about 15% of the global market share
- Works on unicast in a services model
- Quality of Video/audio not good
- Enterprises do not use it for security threats on the internet

IPV6

 There is no competitive offering in this segment against "Vennfer"

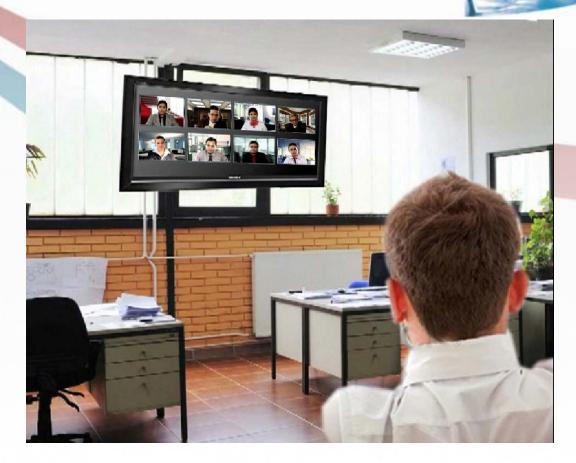
Vennfer

Vennfer (Enterprise,Multic ast / Unicast)

- Saves 50-60% in Opex and 40-60% in Capex
- · scales upto 2-17/37/200/N way conferences
- Can integrates boardrooms, PCs, Tablets, Laptops and Mobiles in one enterprise conference
- · Can integrate data like PPT, Word , Excel, Chat, Whiteboard and Application sharing while VC
- Covers the entire spectrum of the customers VC needs and runs on any network
- · Vennfer is the only solution ready for IPV6

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"Vennfer" would enable videoconferencing between multi-party users from multipoint locations like boardrooms







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→ Mobiles (3G)





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Vennfer Product Features

"Vennfer" would be able to conduct many-to-many simultaneous videoconferencing sessions 2-17 / 37 / 200 / N





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Users of "Vennfer" while conferencing would be able to maximize video, share for Powerpoint, Excel, Word, Browser, Pdf, Whiteboards, Instant chats, and Application sharing



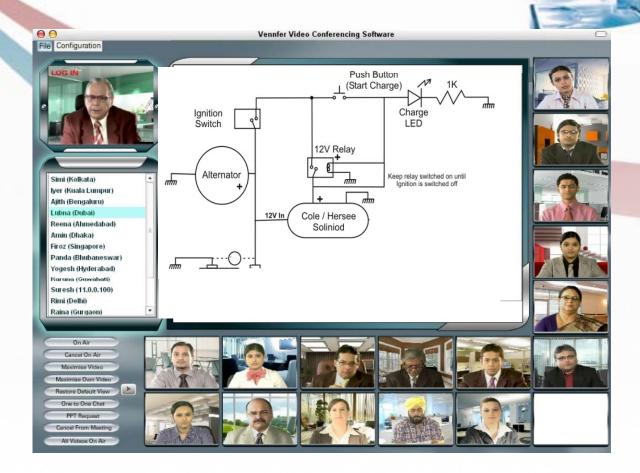
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Users of "Vennfer" while conferencing would be able to share for Powerpoint



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Users of "Vennfer" while conferencing would be able to share for Whiteboard



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→ Users of "Vennfer" while conferencing would be able to share Applications



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Users of "Vennfer" while conferencing would be able to share Internet Browser



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"Vennfer" would enable switching between meetings and surveillance mode to enable real-time surveillance across the enterprise







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"Vennfer" would run on any kind of hardware display LED, LCD, Plasma, Projectors, TVs







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"Vennfer" for the first time in the world would launch 3D videoconferencing







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R & D Ecosystem

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IIT Kharagpur, R&D Centre







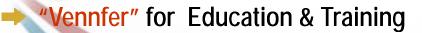




Kolkata R & D Centre



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- Top management / board / council meetings
- Face-to-face meetings
- Educational presentations
- Classroom sessions
- HR-placement meetings
- Campus interviews
- Distance learning
- Seminars
- Collaborative educational sessions
- Faculty meetings
- Security and real-time surveillance

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"Vennfer" for Distance Learning and Live Collaborative Classrooms on account of the ever growing shortage of faculty



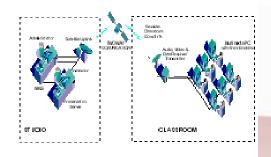
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→ Using "Vennfer" you can do Live Synchronous Studie & Collaboration



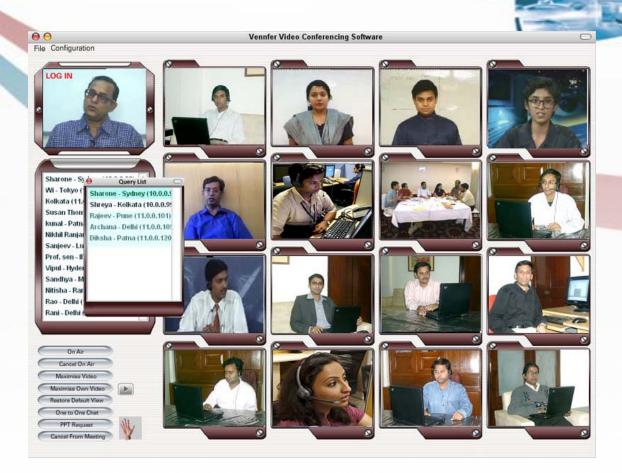


Network Topology



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"Vennfer" for Live Collaborative Classrooms



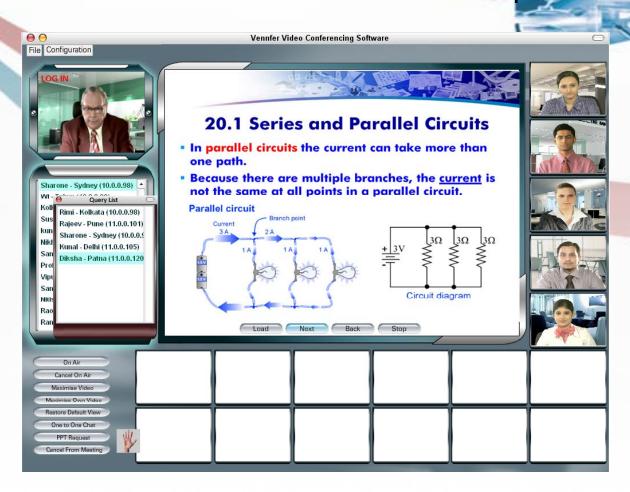
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"Vennfer" for Live Collaborative Classrooms with electronic hand raising



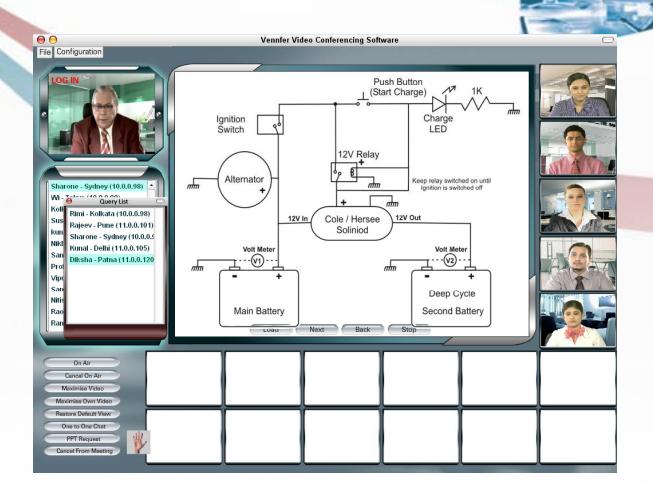
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"Vennfer" for Live Collaborative Classrooms with Powerpoint



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"Vennfer" for Live Collaborative Classrooms with Whiteboard



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"Vennfer" for Live Collaborative Classrooms with browser





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"Vennfer" for Healthcare & Telemedicine







"Vennfer" for Healthcare following areas on account of scarcity of doctors and para-medics

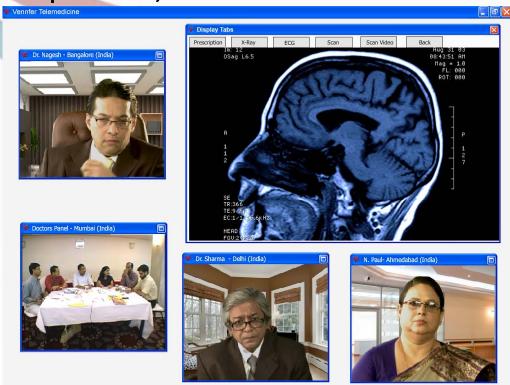


- Telemedicine
- ~ Tele consultation (Direct clinical, preventive, diagnostic, therapeutic, treatment, consultative & follow-up services)
 - ~ Tele monitoring (Remote monitoring of rehabilitation services)
 - ~ Tele mentoring (Education to patients & healthcare professionals)
 - Tele presence (Remote assistance in surgery)
- Continuing Medical Education
- **→** Administration

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"Vennfer" can be used for video conferencing extensively in the Healthcare industry in the following areas of Tele-medicine;

~ Tele consultation (Direct clinical, preventive, diagnostic, therapeutic, treatment, consultative & follow-up services)



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- monitoring (Remote monitoring of rehabilitation services



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Le - presence (Remote assistance in surgery)





Vennfer Telemedicine





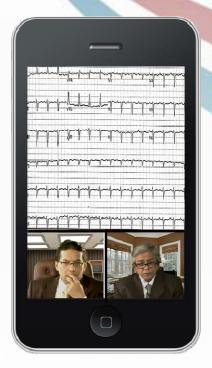






→ Nemedicine on Mobiles (Integration with DICOM)













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→ Using "Vennfer" you can do 3G Mobile conferencing and Companies for Videoconferencing on demand





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- e-Governance Projects
- Statewise SWAN projects
- Education Departments
- Healthcare Departments
- Judiciary & the Legal System
- Police Force
- Defense
- Inter departmental meetings of all govt. departments
- Public Sector Organisations
- Security and real-time surveillance
- CSC's and Kiosks

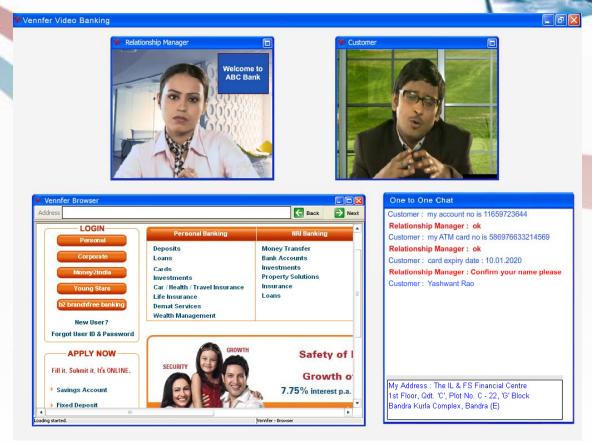
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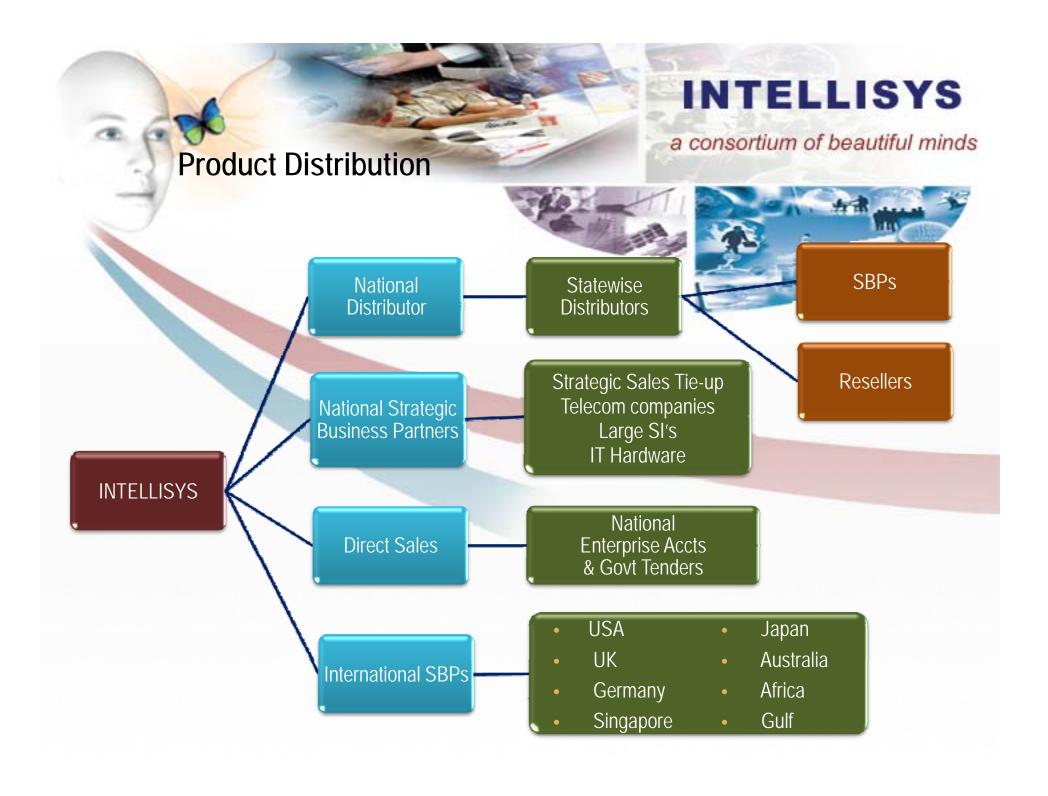
"Vennfer" for Video Banking Services, Finance, Securities Insurance & Treasury, PSU Banks



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"Vennfer" for Video Banking Services, Finance, Securities Insurance & Treasury, PSU Banks







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Escalation matrix followed

- Email
- Call Centre
- Telephone
- Remote Diagnostics
- Onsite

Existing partners trained on basic support & installation

Separate Enterprise and SMB support

Exclusive support partners appointed on a nationwide basis

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Licensing Patterns



Perpetual User License

Concurrent User License

Server License

Annualized License

VC on Demand

Training & Implementation

AMCs & Product Upgrades

- Every client is a user, # users = # clients
- · One license per client
- · Mainly applicable in the SMB segment pack
- Mainly applicable in large scale enterprise deployments
- S/W installed in any # of clients
- · Concurrent usage restricted based on # licenses bought
- · Unlimited user license per server, # users restricted by server capacity
- Applicable where # users is high e.g. educational institutions
- Users pay a pre-contracted annual usage fee
- · Applicable in case of offerings from telecom partner
- Future licensing model for Video Conferencing
- Telecom players bill clients on a usage basis
- · Integral part of all software solution deployment
- · Additional source of revenue
- · Product Warranty applicable for 180 days
- · After 180 days, customers would be required to sign up for AMC contracts
- · Additional revenue source



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