ATiS President's Message, 2011

Lord John E. Shazell
(ATiS President 2011)

2011 sees many contries in the midst of or planning to deploy Next Generation Broadband Networks (NGBN) around the world and Singapore is proudly one of the leaders in this initiative by the InfoCommunications Authority of Singapore (iDA).

With exponential growth in Mobile and Data Traffic, the need for faster services, demand for bandwidth and the services which can be provided by larger bandwidth pipes, the developed world is romping ahead and providing enhanced services to users, with greater challenges for the Operators and Service Providers.

In stark contrast to this, half the world's population resides in rural districts and far flung communities and this half, amounting to some three billion people, represents the poorer, less educated, and more deprived cousins of our urban citizens.

Indeed, latest figures indicate that as many as 70 per cent of the developing world's 1.4 billion extremely poor people, live in rural areas and they are also amongst the least connected to the benefits of ICTs.

Some countries are also now moving towards recognising Access to Broadband as a 'Human Right'.

Many countries are now facing problems with their citizens who are demanding better rights, some of them basic Human Rights and Social Networking sites like Facebook have been used as a Communications Tool during these troubles and Governments in some countries have even tried to deny access to the Internet.

Also the recent devastating events in Japan this year and Chile and Haiti in 2010, demonstrate the fragility of our Mobile, Fixed and Submarine infrastructures.

Against this backdrop, the Association of Telecommunications Industry of Singapore (ATiS) has a role to play with our Members and as an Association, we can then offer:

1. Continued close collaboration and support of InfoCom Development Authority of Singapore (iDA) in its regulatory role and to sit on TSAC and TSTC committees, participate in Consultation Paper submissions and support MRA and Bi-Lateral meetings with regional Regulators, when so requested

2. Organise Key Industry Events like World Telecommunications and Information Society Day WTISD), which in addition to the social and business networking benefits, offers insight into the state of technology deployment in Singapore and the region. Attendees have given rave reviews on recent ATiS discussions on technology in the past.

3. Assist ATiS members in regional and International initiatives as a group rather than as individual companies, offering tremendous leverage and economy.

4. Alliances with complementary associations through ATIE (Asian Telecommunications Information Exchange) as we seek to expand business opportunities for our members.

5. Revamping the ATiS website into a Portal to reflect the growing demand for updated information, collaboration, business generation and technology reviews and the issuance of regular Newsletters.

6. Much more initiatives and showcasing creative ideas as we approach 25 years as an Association.

I would like to personally welcome on Board the new ExCo and am confident that 2011 will be a memorable year in the history of ATiS.

Finally thanks to Mr. Mike Ang, President 2010 for his commitment and hard work, who has recently stepped down and now assumes the role of Immediate Past President ■

ATiS President

Lord John Edgecumbe Shazell (John) is a veteran in the Telecommunications/ICT industry with 46 years experience. He started his career in 1964 with the British Post Office in the UK, then went overseas with C&W, before joining ITU.

After 7 years with LM Ericsson, he founded and is now the Chairman and CEO of the Teleconsult Group of Companies headquartered in Singapore, also incorporated in Brunei Darussalam, Malaysia, Indonesia and Hong Kong in Singapore.

He has about 35 years overseas experience in the Middle East, Malaysia, Singapore, Brunei Darussalam and Indonesia.

He is Broadband Evangelist and Rotarian, passionate about training of next generation Telecom/ICT Engineers and providing solutions in under developed countries to bridge the digital divide. He also crafted several APICTA Award winning software solutions and written numerous whitepapers ■

Editorial

Its my pleasure to present you the first newsletter of 2011 after the New Executive Council being reponsible for the celebrating 25th Anniversary of ATiS. Exco promising to the members that the newsletter will be published every month an New lookout and structure with coverage on multiple disciplines within the Telecommunication and ICT to cater the focus of ATiS members.

Please do let me know your feedback and suggestion.

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Inside this issue

ATIS
25th
Association of the Telecommunications
Industry of Singapore

ATIS Newsletter
An ATIS Publication

Revolutionary GSM Handset Launched in India

> *Blindness is a disability which could be overcome with training and guidance. The INTEX Vision phone is an ideal tool for the visually impaired people to satisfy their communication needs. It can play a very useful role in their integrated development*

said Mr. Mohinder Kapur, President, NAB (National Association for the Blind) India at the event of launching the revolutionary GSM handset INTEX VISION — a mobile phone especially designed for visually impaired unveiled by the students of NAB. Developed at Intex's Centre for Design & Development, in a bid to empower differently–abled.

The Dual SIM phone (GSM+GSM) has a large Braile

keypad to facilitate recognition of digits. People, who are not conversant with Braile, could switch on the 'Talking Keypad' feature which speaks out in English the number they have pressed. Keeping in mind communication needs in emergency, the phone has a unique SOS feature which allows you to save four emergency numbers.By pressing the SOS button, the call gets automatically directed to the

first emergency number.

Commenting on the launch, Mr. Shailendra Jha, DGM-Telecom, Intex Technologies (India) Ltd. said, "Intex believes that simple and affordable technology can do wonders in enhancing quality of life of differently-abled people. India has the largest number of blind people in the world and NAB is the best platform in the country to reach to them. INTEX Vision is just a small gesture to

help empower the visually impaired population by bringing connectivity within easy reach".

While the large enterprises moving ahead with the corporate social responsibility (CSR) program INTEX Vision is an innovative example of CSR and technological advancement to ■

Telecom New Zealand Fined for Anti-Competitive Behaviour

The High Court in Auckland has imposed a $12 million penalty against Telecom for breaching section 36 of the Commerce Act in the so-called 'data tails' case. The penalty is the highest imposed under the Commerce Act, which was amended in 2001 to increase the fines available for anti-competitive conduct.

In October 2009 the High Court determined that from 2001 to 2004 Telecom unlawfully leveraged its market power to charge downstream competitors disproportionately high prices for wholesale access to its network, preventing them from offering retail end-to-end high-speed data services on a competitive basis.

In the Court's penalty judgment issued today, Justice Rodney Hansen said that the exclusionary effects of Telecom's conduct "were injurious to competitors, brought significant benefits to Telecom and were damaging to the competitive process." The Judge noted that "the breach was

the result of a deliberate strategy, apparently sanctioned at the highest levels of Telecom, to

telecom nz

price data tails at a level that would preclude price competition between Telecom and other telecommunications service providers."

In determining the proper penalty, Justice Hansen said that "the penalty should reflect the size and financial circumstances of Telecom and its position of influence and importance in the telecommunications industry. The goal of specific deterrence requires that the penalty take account of the size and resources of the contravening company."

His Honour also noted that in this case no allowance could be made for an acknowledgement of wrongdoing or the advantages of

a negotiated settlement, and the penalty therefore had to "give full effect to the new penalty regime and the over riding goal of deterrence".

Telecom has appealed the October 2009 judgement finding that it breached section 36 of the

Commerce Act. The hearing in the Court of Appeal is scheduled to commence in September and will include consideration of the High Court penalty judgement if that is appealed in the interim. As the proceedings are ongoing, the Commission can make no further comment at this time ■

SingTel Launches Portal for Sea Surfers

SingTel announced a free maritime broadband offer and the launch of a new web portal that will allow crew members to keep up with the latest news and stay in touch with their friends, family and co-workers.

Called crewXchange@singtel, this one-stop portal (crew.singtel. com) allows users to subscribe to news feeds, access emails, and chat with their friends using various messenger platforms.

This 'lightweight' portal is avail-

Maritime VSAT delivers High Speed IP Broadband at Sea - powered by the world's First 1.5m C-Band Stabilized Antenna

able free of charge to all SingTel maritime broadband customers and optimized to cater to bandwidth limitation on board vessels ■

Successful Launch of Yahsat Y1A and Intelsat New Dawn, Next Month ST-2 and GSAT-8/InSat-4G

A heavy-lift Ariane 5 successfully orbited two satellite payloads on April 22, 2001 from the Spaceport carrying a record portal mass of 10,050 kg to geostationary transfer orbit, of which 8,956 kg. was the combined weight of its two satellite payloads. Earlier on March mission with the Yahsat Y1A and Intelsat New Dawn satellites was interrupted prior to liftoff when an anomaly detected during the automated checkout procedure stopped the sequence before ignition of the solid boosters.

In mission, Yahsat Y1A was positioned in the upper passenger slot of Ariane 5's dual-payload "stack," and was released at 27 minutes into the flight. This spacecraft was built by Astrium based on the Eurostar E3000 platform, while its Kuband and C-band communications payload was supplied by Thales Alenia Space.

Lifting off on time at 6:37 p.m. in French Guiana, the Ariane 5 climbed through a partial cloud cover at sunset, and continued its downrange flight in clear skies. This allowed a direct view of the separation for Ariane 5's two solid propellant boosters at an altitude of 66.5 kilometers, followed by the payload fairing's

Launch of Yahsat YIA and Intelsat New Dawn; 57th Launch of Ariane 5 and 43rd Successful launch in a row, Second in 2011 and 201st Ariane launch in all

jettison at a 105-kilometer altitude.

It marked another of Ariane 5's highly accurate flights, with the following estimated orbital parameters at the injection of its cryogenic upper stage:

- Perigee: 249.8 km. for a target of 249.7 km.

- Apogee: 35,975 km. for a target of 35,956 km.

- Inclination: 5.98 deg. for a target of 6.00 deg.

Yahsat Y1A will have a coverage footprint spanning the Middle East, Africa, and Southwest Asia, creating regionallyfocused capacity to meet the region's expanding requirements for government, commercial and consumer satellite communication services. Operating from an orbital slot of 52.5 deg. East, it will support Abu Dhabi's ambition to become a hub for media broadcasting and telecommunications services – enabling customers from Europe and South Asia to connect with customers across the entire coverage area.

Intelsat New Dawn – which was deployed from Ariane 5's lower payload position at 35 minutes into tonight's flight – is owned by a joint venture of Intelsat and a consortium led by Convergence Partners. This satellite's C-band and Ku-band transponders are to support the communications infrastructure for African

customers who have experienced exceptional growth, and contribute to the region's development. It is tailored for voice, wireless backhaul, Internet and media applications services.

Built by Orbital Sciences Corporation using its STAR-2 platform, Intelsat New Dawn will be integrated with Intelsat's global satellite fleet and stationed at the 32.8 deg. East orbital location. It was the 52nd satellite launched by Arianespace for Intelsat, the world's leading satellite operator.

Following the successful mission of Yahsat Y1A and Intelsat New Dawn, Arianespace Chairman & CEO Jean-Yves Le Gall announced the date for its next Ariane 5launch: a May 19 liftoff from the Spaceport with the ST-2 payload for ST-2 Satellite Ventures Pte Ltd., and the GSAT-8 spacecraft for the Indian Space ResearchOrganisation (ISRO). ST-2 satellite owned by ST-2 Satellite Ventures Pte Ltd (STS), a joint venture formed by Singapore Telecommunications Ltd. (SingTel) and Chunghwa Telecom Company Ltd. (Chunghwa) will replace ST-1 satellite. Where GSAT-8 / InSat-4G will be the another milestone for ISRO's"Space Vision India 2025" ∎

ATiS Supported BWA Event

ATiS recently supported an event organized by TRPC and the International Institute of Communications (IIC) which was held at the Microsoft Offices in Singapore which was well attended by industry and MICA. The forum highlighted that the mobile operators of the world are facing challenges which are radically different from the world of the 1990s and that Operators must embrace these trends and rethink their business accordingly.

The sophistication and expectation level of users has moved up exponentially, as has the quality and capability of devices and applications. While network operators see ongoing growth and new revenue streams emerging to secure a return on their considerable investments, the advances in downstream technology and shift of power to consumers that wireless broadband has enabled have profound implications for business models.

To that extent, operators will indeed be the "big fish" in a new

commercial ecosystem; one where dital content providers are getting more adept in monetising their businesses and where broadband services can be consumed across a range of devices and platforms. The forum also discussed how globally Operators are seeking answers to the following questions:

- *Should they relinquish ownership of their customers in return for a share of those revenues or closer partnerships with key vendors?*

- *Can they increase support for content and e-service providers, for example with billing or bandwidth management?*

- *How will the technical side of the business adapt to support a changing business focus?*

- *What wholesale and retail pricing models make sense in a world of rising bandwidth-consuming video data traffic?*

Google-based SJC Project is 'Go', with an Expanded Membership

The Google-backed SJC (South-East Asia Japan Cable) project was officially announced last week with the announcement of principal vendors.
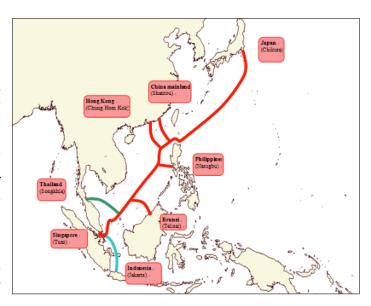
The consortium members, which included only three of the original operators when the project was first unveiled in 2008, announced the selection of NEC and TE SubCom, (formerly Tyco), as the vendors for the 8,900 km system stretching from Singapore to Japan.

The expanded consortium now includes Brunei International Gateway, China Mobile, China Telecom and its Hong Kong subsidiary, Donghwa Telecom – the wholly-owned Hong Kong subsidiary of Taiwan's Chunghwa Telecom, Philippines' Globe Telecom, Telekom Indonesia, Telemedia Pacific Inc, and Thailand's TOT Public Co., Ltd., as well as the original members, Google, represented by Google SJC Bermuda, Singapore Telecom, and KDDI of Japan. Notably absent on the list are Bharti Airtel and Global Transit (now Time dotcom of Malaysia), both of whom were associated with the project at its onset. Reliance Globalcom, who at one time was also associated with the project, has also apparently pulled out.

According to details released by TE SubCom, the cable will have initial landings in Singapore, Brunei, Philippines, Hong Kong, China (Shantou) and Japan, with subsequent branches to Jakarta, Indonesia and Songkhla, Thailand. Despite the participation of Chunghwa, the system will skirt the northern coast of the Philippines and avoid Taiwan and its earthquake-prone coast altogether. The SJC system is expected to be ready for service in second quarter of 2013 and have an initial design capacity of "over 15Tbps", presumably with 40G technology.

The announcement comes mere weeks after a consortium led by NTT Communications and Telecom Malaysia announced a similar cable – the ASE, or Asia Submarine-cable Express connecting Singapore and Malaysia to Japan.

Another project, a Chennai-US network by a partnership between Bharti Airtel and Pacnet, will also likely compete with SJC by giving Bharti Airtel access to fibres on Pacnet's EAC-C2C system. Perhaps the most important factor to note with SJC is the timing and the expanded membership list. By delaying its RFS until 2013,

SJC will be coming online in the market when existing systems begin approaching the latter part of their service life.

The two major systems in the water today, Pacnet's EAC-C2C and the APCN2 cable, were both built during the dotcom boom of 2000, hence will be nearing the average 15 year lifespan of submarine cables, although cable system lifespan has been extended in recent years to 20 years and even 25 years i.e. Southern Cross.

That leaves only the new ASE cable and Tata Communications' TGNIA system as competing systems with a similar longevity on the market against SJC.

On the other hand, many of the new consortium members are first timers for intra-Asia submarine cable capacity, so SJC might simply be a system to sate domestic capacity demand from fast growing markets such as Indonesia and Thailand, as well as a supplement for operators in China (China Telecom and China Mobile), who have little intra-Asia capacity, and Philippines' Globe, who has capacity on TGN-IA. ∎

ATiS New Executive Council 2011

ATiS has elected its New Executive Council for 2011 according to the constitution of ATiS in its last AGM held on February 21, 2011 at Cityhub Boardroom, Ngee Ann City Tower B. The new Executive council consist of 10 member having 3 new faces for first time in executive council. Followings members are elected and co-opted in the new executive council later the office holder has been appointed on 22nd March 2011 in the 1st Exco Meeting 2001.

1. **Lord John E Shazell** — President
2. **Mike Ang** — Immediate Past President
3. **Darwin Ho** — Vice-President, TSAC/TSTC Committee Member
4. **Khoo Teng Lock** — Hon. Secretary
5. **John Lee Guan Hock** — Treasurer
6. **Mohammad Fazlun Naim** — Editor, Portal and Newsletter
7. **Preetam Bose** — Membership Development
8. **Joshua Tan** — Legal Advisor and Regulatory
9. **George Yong** — Events
10. **Yip Yew Seng** - IDA Liaison and NICF Committee Member