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ST ELECTRONICS GROUP

challenges
innovation
together, we
empower lives

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Vision

To be a Global World-Class
System House in Electronics Technologies

Mission

To deliver innovative electronics solutions
that exceed customer expectations and
constantly create value for our stakeholders

empowering through innovation

Singapore Technologies Electronics (ST Electronics) is the nation's foremost electronics and Information Communications Technologies (ICT) systems provider with a track record that spans four decades.

Singapore Technologies Electronics (ST Electronics) has led the charge as the nation's foremost electronics and Information Communications Technologies (ICT) systems company for about four decades.

Our portfolio encompasses an incredibly diverse spectrum of solutions, with particular focus on –

- satellite communications (Satcoms)
- interactive digital media (IDM)
- e-Government solutions and services

By investing heavily in research and development, we continue to stay on the forefront of technological advancements, harnessing our expertise to create cost effective, purpose-built systems and solutions for our customers.

Our track record speaks for itself. We are the first ICT systems integrator and provider in Singapore to have achieved the S\$1 billion revenue mark in 2007 and have filed more than 65 patents, of which about 40 have been granted since 1998.

Making Waves Around the World

With a presence in over 30 cities in 20 countries in Asia, Africa, Europe, the US and the Middle East, ST Electronics is a truly global company. Our staff of about 4,700 serve a borderless customer base spanning more than 80 countries from the government, commercial, industrial, defence and security sectors.

As part of our continued globalisation efforts, we have made strategic investments and acquisitions overseas to strengthen our offerings and bolster our core capabilities. These include INFA Systems in China, Antycip Simulation and Telematics Wireless in Europe, VT iDirect and VT MÄK in the US.

An Active, Customer-Centric Approach

Quality and innovation are the hallmarks of ST Electronics. Anything worth doing is worth doing well – this is the philosophy that guides our staff in their daily work. With a firm belief that innovation can originate from all sources, we have in place schemes and avenues to harvest and reward creative ideas from staff. We also leverage the strengths, resources and technologies of our multi-faceted network of collaborative partners for new insights, to create mutual benefits.

At ST Electronics, we strive to garner a clear understanding of our customers' needs and long-term goals, so that we can deliver solutions and services that are truly customised to serve and empower their enterprises.



Rail electronics solutions

our systems and solutions

As quickly as governments and enterprises around the globe are embracing technology to transform the way they deliver their services, ST Electronics is leveraging our technological expertise to offer end-to-end solutions and services.

Satellite Broadband Communications

With satellite communications (satcom) quickly becoming an integral component of next generation Internet Protocol (IP) networking, ST Electronics has captured a significant portion of the market by providing seamless broadband wireless solutions to public and private organisations for the past 20 years.

We deliver rigorous satcom applications that provide governments and private enterprises with sustained connectivity, regardless of time and geography, through our team of experienced and dedicated engineers working at our advanced facilities.

Satellite Communications Products

ST Electronics’ range of Very Small Aperture Terminal (VSAT) products is represented by our Agilis brand, which includes RF/outdoor units, up/down converters, satellite modems and specialised terminals.

The superior features and functions, low operating cost and easy set up of our VSAT products allow our customers to deploy them in many mission-critical and remote sites worldwide. Built to withstand even the harshest environmental conditions, they are a popular choice among major telcos and VSAT service providers, enterprises, and governments.

One of our latest offering, the iDirect satellite-based Internet Protocol (IP) communication portfolio is the first of its kind in the market. As a single

integrated IP platform, it supports any customer application regardless of satellite band, network topology, location or bandwidth requirement.

Integrated Network Management System (iNMS)

Our integrated Network System (iNMS) enables our customers to monitor and configure all their systems from one central location, enabling easy identification and quick resolution of network problems.

Turnkey Satellite Network Solutions

ST Electronics’ in-depth understanding of life cycle management processes, makes us an ideal provider of seamless, end-to-end satellite network solutions.

We integrate various best-of-breed products and deliver complex mission-critical satellite communication solutions of different network configurations, including turnkey system-of-systems integration programmes, comprehensive Command, Control and Information Systems (CCIS), and networks with secured and resilient communications for voice, data and video transmissions.

e-Government and e-Enterprise

As quickly as governments and enterprises around the globe are embracing technology to transform the way they deliver their services, ST Electronics is leveraging our technological expertise to offer end-to-end consultancy for e-Government and e-Enterprise infrastructure solutions and services.

With our unique Service Transformation™ approach and methodology, our e-Government solutions are always tailored to our customers’ requirements, environment and budget.

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Education

ST Electronics has developed an integrated suite of solutions that significantly add value to the overall learning experience and environment to benefit students, educators and parents.

Our contributions in the i-Learning and interactive digital media (IDM) arenas have been substantial, integrating different enabling technologies such as simulation, 3D visualisation, multimedia on demand, interactive digital animation, virtual worlds and voice communication to make the learning journey uniquely compelling and engaging.

ST Electronics makes possible borderless communication by linking up communities of learning – live, across cultural boundaries through easy access to online repositories/libraries for research purposes with online digital document delivery.

These solutions are currently being applied in Singapore through the Future Schools programme for the Infocomm Development Authority (IDA) and the Ministry of Education (MOE).

Managed Services and Enterprise Solutions

As a one-stop solutions provider, ST Electronics offers a wide spectrum of managed and shared services,

designed to save our customers time and money by managing complex work processes at one convenient outsourced agency. We provide shared services to the Ministry of Defence, for its active personnel, regulars and NSmen numbering some 350,000 under the Singapore Armed Forces.

Our info-communication systems are especially popular with governments worldwide, as they enable better delivery of services, access to information and enhance interaction and the streamlining of processes. Using our systems, the Maldives Government has successfully provided connectivity through satellite links for its agencies in Malé and 23 other islands. ST Electronics has designed and built data centres, both locally and overseas. Our data centres and co-location services free our customers from space constraints and security issues.

We also work with strategic partners to provide comprehensive e-Supply Chain Management (eSCM) systems that enable enterprises to deliver goods accurately and in a timely manner, at the lowest possible cost. By integrating the data from various critical stations, the systems are a boon for large, global businesses with complex networks of suppliers, intermediaries, third-party service providers and customers.

The system supports the coordination of supply chain operations and decision making through information sharing while facilitating processes such as procurement and sourcing, inventory management and sales output.



Satellite Communications on the Move



iDirect Hubs facilitate cost-effective communications



i-Learning Solutions



Managed Services



Our solutions include optimal resource tracking and security features, allowing authorities to safeguard infrastructure and assets without compromising the efficiency of operations.

ST Electronics has also designed complete management systems for other key economic industries, such as the Resort and Hospitality System for hotels, and the Multimedia Content Management System for the efficient management of display panels at public venues.

Public Safety and Emergency Management

In the face of heightened security and defence threats, ST Electronics' comprehensive Command, Control, Communications, Computers, and Intelligence (C4I) systems offer government agencies superior situational awareness and communications tools for enhanced public safety and emergency management.

Our solutions include optimal resource tracking and security features, allowing authorities to safeguard infrastructure and assets without compromising the efficiency of operations. They have become an invaluable aid to Hong Kong, Singapore and other government agencies in the region.

Information Security

Organisations that need to protect their data and information enjoy peace of mind with our proprietary DigiSAFE® products. These safeguard against external threats and enable internal data control with applications such as encryption equipment, data encryption hardware and software, and digital watermarking solutions.

ST Electronics' wide range of customised shielding solutions protect key facilities and secure highly sensitive data from unauthorised interception and sabotage. We are the leading centre for Electromagnetic Interference / Electromagnetic Compatibility and offer a complete solution including consultancy and comprehensive military standard testing services.

Intelligent Building Management

The modern complexes and infrastructure of today have specific security, facilities management and automation needs. We pioneer leading edge intelligent building systems that cater to both governments and enterprises.

Our Integrated Building Facilities Management System (IBFMS) enables building managers to control and monitor a myriad of complex building facilities via a single user interface 24x7. A self-contained, integrated application, the IBFMS has been adopted by some of the world's most modern buildings, such as the Grand Indonesia Shopping Town in Jakarta – the largest upscale shopping centre in Southeast Asia, and Shanghai's Jin Mao Tower – one of the tallest commercial complexes in China.

As a complete one-stop provider of intelligent building solutions, ST Electronics is also reputed for our security management systems, which have preserved national and commercial buildings from access breaches or



Third Generation Mobilising System provides efficient resource management



Intelligent Building Management System

our systems
and solutions

By investing in research and development, we are able to create ground-breaking applications and technologies that reinforce our leadership position in the areas of Simulation, Animation, Games and Edutainment.

threats, both at home and abroad. We are one of the first companies in Singapore to install a smartcard and biometric access management system that adheres strictly to the Smart Visa Identification Passport (SmartVIP) and Intelligent Nation Biometric Access Controls (INBAC) standards as stipulated by the Singapore Internal Security Department.

Modelling, Simulation & Interactive Digital Media (IDM)

The multi-billion dollar Simulation, Animation, Games and Edutainment (SAGE) market is one of the key focus areas of ST Electronics. We have harnessed our expertise in these technologies to create new applications that transform the way people learn, work and play.

By investing in research and development, we are able to create ground-breaking applications and technologies that reinforce our leadership position in the area of SAGE.

Modelling & Simulation

ST Electronics has maintained a firm foothold in the international modelling and simulation arena, having delivered quality simulation and live training solutions for both commercial and defence customers over the past 30 years.

We develop cost effective simulation solutions for air, land and sea platforms, designed to reduce initial operational training cycle time, improve trainees’ skills and minimise equipment obsolescence.

Our Air Traffic Control (ATC) simulator provides realistic simulation of the air traffic environment to train ATC controllers in aircraft operations and to handle emergency situations, safely and expeditiously.

The aerodrome simulator features high-end project imagery and an integrated voice communications network to enable trainees to hone highly specialised skills in ATC operations and procedures. The radar simulators facilitate realistic full spectrum training in radar operations – from the en-route phase of flight to the aerodrome. Our simulators are used by the Singapore Aviation Academy, the training arm of the Civil Aviation Authority of Singapore, and the Civil Aviation Department of Hong Kong.

We have also equipped the Republic of Singapore Navy and the Singapore Police Coast Guard with full-scale naval trainers and other training solutions.

In the realm of modelling and simulation, our presence in the US and in Europe has grown steadily in terms of scale and reputation through our subsidiaries – VT MÄK and Antycip Simulation.

In the US, over 400 customers, including the world’s ten largest defence contractors, use our Commercial-Off-The-Shelf (COTS) tools and toolkits for distributed simulation. In Europe, we are a recognised leader in the delivery of market leading simulation software, hardware and integrated solutions.



Managed Air Traffic Control Aerodrome Simulator



MÄK Stealth is a 3D visualisation tool that focuses on information

Animation and Games

ST Electronics’ foray into the IDM industry has made headway despite our relatively short history in this domain. We have won international acclaim and attention for our ground-breaking efforts. This sets the course for our vision to be a major player in the global IDM market.

Our strategic partnerships with world renowned animation and digital companies have attracted attention on the global stage. *Jane and the Dragon*, an animated series for which ST Electronics was solely responsible for its special effects, was nominated for several international awards. *The Ten Commandments* – our first feature movie project, was launched to over 830 cinemas in the US in October 2007 and subsequently in Singapore. In November 2008, ST Electronics launched Singapore’s first co-produced 3D animated TV Series, *The Future is Wild*. It was aired in Singapore after its debut on RTL II in Germany and on Discovery Kids in the US.

In 2009, ST Electronics was awarded a contract by the Infocomm Development Authority of Singapore to create and operate the first Virtual World for the inaugural Singapore 2010 Youth Olympic Games. This puts us on the world stage as a provider of advanced digital media technology.

Backed by a talented pool of technologists, software designers, graphics and animation specialists, we have proven that we can take on mega scale productions in movie, television and DVD animation. We



Animation Specialist working on *The Future is Wild*

have successfully marketed our works to Asia, Canada, the US, Europe and New Zealand.

Edutainment

The realm of edutainment has been dramatically transformed with the advances made in ICT and IDM. ST Electronics’ simulation and technological capabilities have spurred the creation of new generation teaching systems that offer customised and interactive learning.

The iDA and the MOE have awarded ST Electronics the Future Schools project to provide education solutions to two of the initial five schools identified. The Future Schools programme will provide a cutting-edge learning environment for the identified schools in Singapore. Outside of Singapore, we have installed some 1,200 multimedia laboratories throughout schools in Kazakhstan, and trained over 1,600 teachers to use the system.

We provide consultancy, training and i-Learning services to corporations, academic institutions and individuals in China through our subsidiary. Our i-Learning products and services via the Internet include over 200 types of web-based professional courses.

With simulation expertise, we have developed content and technologies for Location-Based Entertainment applications, creating highly realistic applications for high end multiplayer interaction computer games that are largely found in themed entertainment attractions, amusement parks and large scale arcades.



i-Learning solutions for Kazakhstan

our systems and solutions

ST Electronics has played an instrumental role in the effective operation and management of Singapore's land transportation system for over 20 years.

Intelligent Transportation & Telematics

ST Electronics is a true pioneer in public transportation solutions, providing governments with intelligent transportation systems that enable the quick and efficient movement of large numbers of people within and across cities.

Constantly setting the standards in technology, safety, comfort and speed, our systems span rail, road, traffic and fleet management, and telematics solutions.

Rail Solutions

ST Electronics played a pioneering role in the development of Singapore's Mass Rapid Transit (MRT) and Light Rail Transit (LRT) systems since 1984 when Singapore's first two MRT lines were built. Today, we remain a dominant player in Singapore's MRT/LRT projects for rail electronics solutions.

ST Electronics is the only provider of complete rail electronics solutions; namely command, control and communications, automatic fare collection and platform screen doors. Following our first overseas MRT project in 1993 for Taipei's Blue Line, we have delivered over 60 turnkey projects in the Asia Pacific region, covering more than 23 MRT/LRT lines in China, Taiwan, Philippines, Thailand, Turkey and the United Arab Emirates.

One of the single most significant overseas rail projects awarded to ST Electronics and our partners was the first centralised, network-based Integrated Traffic Command Centre system in Beijing. It enables the city to

manage its bustling passenger traffic and handle emergency incidents efficiently and safely. The system was delivered in time for the Beijing Olympics in 2008.

Road Solutions

ST Electronics has played an instrumental role in the effective operation and management of Singapore's land transportation system for over 20 years. Our Expressway Monitoring and Advisory System (EMAS) facilitates the management of traffic incidents along the expressways, and soon six major arterial roads. Our i-Transport system enables the local authorities to effectively manage traffic flow along major roads and expressways.

Our Intelligent Transport System (ITS) solutions also contribute to smooth flowing traffic in countries such as Australia, China, Hong Kong, Indonesia, Malaysia, Philippines, Taiwan and Thailand with recent projects in Europe and the Gulf States.

Traffic and Fleet Management Solutions

ST Electronics is a regional leader in the design and manufacturing of systems and technologies for traffic and fleet management, having garnered numerous awards and patents for our sophisticated solutions.

Our in-house developed cetrac® suite of customisable, turnkey solutions allow for the integration and enhancement of urban and inter-urban transportation systems, enabling transport authorities and commercial operators to manage their facilities more efficiently, reliably and safely.

Telematics Solutions

With the acquisition of Telematics Wireless Ltd, ST Electronics now offers integrated telematics applications as part of our ITS solutions, further entrenching our position as a complete ITS provider.

Through telematics we provide Radio Frequency Identification (RFID) applications utilising wireless network technology. Our RFID application for gantry/gantryless Congestion Management System will herald the next stage of traffic and fleet management development. It will also open up new possibilities in location and vehicular telematics, automatic meter reading and asset security.

Sensors and Electro-Optics

ST Electronics' expertise in developing innovative, broadband wireless communication and sensor solutions has enabled government authorities and businesses to safeguard key installations and human assets.

Our state-of-the-art radar, microwave sensors and electro-optic solutions cover an extensive range of market segments and are used in over 80 countries.

Sensors

ST Electronics leads the market in microwave sensors solutions. We provide effectiveness and reliable transceiver modules which are widely used in detection systems for applications in industrial sectors, such as security, automotive, automatic doors, industrial control as well as intelligent buildings and traffic management.

Our Smart Wireless Sensor ad-hoc meshed network, designed for ease of use and implementation, collects and transmits real-time data from remote locations to the control centre for enhanced wireless monitoring and control. For maximum mobility, it can be interfaced with mobile equipment to provide real-time support.

We also deliver some of the world's most revolutionary radar surveillance systems, designed to provide all-weather surface, 24-hour automated surveillance. Our network-centric Surveillance & Sensor Suite (3G-3S) is an intelligent coastal surveillance system that functions as a highly effective crisis management platform. It helps detect and manage a comprehensive host of incidents, such as illegal intrusions, oil spills, terrorist activities, piracy and search and rescue operations.

Electro-Optic (EO) Solutions

ST Electronics offers a sophisticated range of surveillance systems that enables government agencies to protect their borders, key installations and human lives. These include border/coastal surveillance systems and fever screening systems. The award-winning Infrared Fever Screening System (IFss), which enabled quick, real-time mass screening of people with high fever during the SARS epidemic in Singapore in 2003, is a prime example of ST Electronics' innovative solutions.



Intelligent rail electronics solutions for Palm Jumeirah Monorail



Fleet Management for taxi fleet in Sharjah, United Arab Emirates



Radar and coastal surveillance



Portable Infrared Fever Screening System (PIFss)

our systems
and solutions

Our Command and Control (C2) systems provide unrivalled superiority in decision making during a mission while our ‘system of systems’ integration optimises resource tracking and despatch on a real-time basis.

At ST Electronics, we tap on state-of-the-art EO technology to customise EO solutions which facilitate target detection and accurate weapon firing. We also design soldier EO systems and stabilised EO payloads for vehicles and platforms, providing excellent surveillance and targeting capabilities even under the toughest conditions.

Defence

ST Electronics capitalises on our technological expertise and unmatched experience in the defence sector to forge new generation defence equipment, systems and solutions. In an age of political volatility and heightened security threats, our systems and solutions offer defence and homeland security forces the key towards maintaining a safe and peaceful homefront.

Defence C4ISR

Our Command and Control (C2) systems provide unrivalled superiority in decision making during a mission while our ‘system of systems’ integration optimises resource tracking and despatch on a real-time basis.

Our next generation Mobile Command, Control, Communications, Computers and Intelligence (C4I) System solution offers unrivalled connectivity and enhanced situational awareness.

Our wide range of expertise allows us to develop sophisticated C2 systems for specific security needs, such as port security, security for airfields, and those

of homeland security forces. The same impeccable standards of security and reliability are upheld in all our solutions.

Defence Simulation

Simulation forms an integral part of defence training, providing realistic scenarios and terrains for trainees to hone their skills and competencies. ST Electronics equips defence forces globally with cost effective simulation solutions that are deliberately designed to reduce initial operational training cycle time, improve trainees’ skills and minimise equipment obsolescence.

Our end-to-end services cover consultancy, maintenance and after-sales service for our live, virtual and constructive training systems for air, land and sea simulation applications.

Defence Communications

Recognising the fundamental importance of accurate and timely information in any military operation, ST Electronics harnesses advanced wireless and wired technologies to design unparalleled communications solutions for defence forces.

We are the leading system integrator and solutions provider for wide area tactical networks, covering both terrestrial and non-terrestrial communications. Our advanced solutions and technologies range from military area communication networks to commercial technologies such as WiFi and WiMAX.

We also design a wide scope of tactical systems, including software-defined radios, handheld programmable radios, aerial communication networks, intelligent unmanned vehicle communications, mobile satellite communications and datalinks.

Defence System and Product Engineering

ST Electronics is a one-stop systems provider, offering a complete range of services from system requirements and definitions, design and development, implementation, and integrated life cycle support to ensure seamless integration and operation of multi-disciplinary systems.

Our in-house Customer Service Centre offers 24x7 on and off-site maintenance services, which are well supported by world-class facilities such as our Instrument Calibration and the Automatic Test Equipment Centre that provide calibration and repair of test and measuring equipment, printed circuit board assembly and electronic modules.

Tried and proven methodologies and advanced COTS (Commercial-Off-The-Shelf) technologies enable us to integrate customised system solutions across a wide range of operating domains and applications. Our ruggedised COTS systems and sub-systems are designed to meet the military demands of harsh environments and conditions while our flexible and modular approach provides maximum convenience and functionality.

Harnessing our experience and expertise in defence C4I systems, we are able to develop superior surveillance and tracking systems, as well as electronic warfare solutions for defence and homeland security applications.

Homeland Security

Our track record in developing defence systems and solutions has proven invaluable in our delivery of new generation emergency response systems for homeland security agencies.

A revolutionary application was evident in the implementation of a nation-wide integrated mission-critical Command, Control and Communication (C3) infrastructure network for Singapore Police Force, Singapore Civil Defence Force and Central Narcotics Bureau. The network enables these agencies to communicate and coordinate efforts as one integrated entity.

Our innovative C3 system extends to mobile Integrated Command and Communication Vehicles (ICCV), which can be easily and quickly deployed for on-site mission planning and management of emergency situations. The ICCV is also available as a Mobile Command Hub (MCH). The MCH has been utilised by the Taiwan National Fire Agency to speed up rescue work during typhoon incidents in Taiwan.



Armoured Gunnery and Tactical Simulator



Ruggedised Wireless Communication Devices
(photograph courtesy of Pioneer magazine)



The Venus, Unmanned Surface Vehicle, is reconfigurable for multi-missions



Integrated Mission Critical Command Control Infrastructure Network

our company

Our solutions are strategically targeted at the e-Government, Satellite Communications, rail and highway intelligent transportation and Interactive Digital Media markets.

Headquartered in Singapore, ST Electronics has over 40 years of experience in providing electronics, communications and Information Communications Technologies (ICT) solutions to governments and commercial enterprises worldwide.

Our strength lies in our ability to harness leading-edge technologies into products and solutions, which are both innovative and cost-effective. Our solutions are strategically targeted at the e-Government, Satellite Communications, rail and highway intelligent transportation and Interactive Digital Media markets.

A truly global company, ST Electronics has established an international presence in more than 30 cities in 20 countries. We have offices in Bangladesh, Botswana, China (including Hong Kong), Europe, India, Kazakhstan, Malaysia, Mexico, the Gulf States, South Africa, Taiwan, Thailand and the US, serving a customer base that spreads over more than 80 countries.

ST Electronics is a wholly-owned subsidiary of Singapore Technologies Engineering Ltd – one of the largest public-listed companies on the Singapore Stock Exchange.

Awards and Patents

Our values and work attitude have earned us extensive industry approval and recognition, as demonstrated by some of our accolades. ST Electronics strives to build and strengthen its strong innovative spirit. We continually invest in research and development and have been granted numerous patents for our innovations.

Awards

- CIO Awards 2009 in recognition of the best use of technology to derive strategic business value and returns

for ComfortDelGro’s award-winning Integrated Taxi Management System in ST Electronics

- Land Transport Excellence Awards 2008 – Most Innovative Partner (Technology) for the i-Transport System
- Ranked #1 in Singapore, 2007 for Development & Integration and Software Maintenance & Support by Gartner IT Services Asia Pacific
- Minister for Defence Award 2007 in recognition of outstanding and consistent support and unwavering commitment towards the nation’s defence
- 2007 Singapore Quality Award with Special Commendation by SQA Governing Council together with ST Engineering
- CRP 2007 (Congrés de la Radiocommunication Professionnelle) Product Trophy for the SuperneT™ Radio Gateway ST2860
- 2006 BANFF World TV Award (Animation Program category) for *Jane and the Dragon*, Episode: “Shall We Dance”
- First manufacturer in Asia to receive the Det Norske Veritas (DNV) Letter of Compliance for the Trident Full Mission Ship Handling Simulator (2006)

Patents

- Method, Apparatus & System for Feathering Data in A Communication Network for iDirect (2008)
- Method & Apparatus for Measuring Temperature of a Body (the Infrared Fever Screening System) (2007)
- Hybrid Radio Frequency Transceiver (Singapore 2006 & UK 2005)
- Method & System for Intelligent Traffic Incident Management (2004)
- Fault Detection for Traffic Light Systems Using Electronics Lighting Elements – USA (2003)
- Automated Taxi/Vehicle Booking & Despatching System (2003)

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