CLARIDEN GLOBAL HEALTHCARE LEADERSHIP INSTITUTE

5G & IOT MASTERCLASS: KEY TECHNOLOGY COMPONENTS, BUSINESS MODELS, PRODUCT STRATEGY AND REVENUE STREAMS

2017
July 31- August 1
SINGAPORE
Mandarin Oriental, Singapore

Key Insights In Fitting 5G And Iot Into Your Existing Network Topology And Functionality

CLARIDEN CREDENTIALS AND ENGAGEMENT
Clariden Global is the pre-eminent and influential global business leadership institution. Today, we host more than 200 global executive education and major conference events around the world. We have partnered with professional organizations such as the Association of Chartered Certified Accounts (ACCA) and thought leaders from prestigious universities such as Harvard University John F. Kennedy School of Government, Wharton School of the University of Pennsylvania and Stanford University.
To maximize both your enjoyment and professional development, Clariden Global holds its executive programs at five star hotels, some of which include:

**Shangri-La Hotel, Singapore**  
**Singapore**  
Amidst lush gardens, this 3-wing luxury hotel is 6 km from the iconic Marina Bay Sands resort and 9 km from Sentosa.

**Conrad London St James**  
**London, United Kingdom**  
Across the street from St. James’s Park tube station, this sophisticated hotel is 10 minutes’ walk from Buckingham Palace and 2 miles from the Victoria and Albert Museum.

**InterContinental Melbourne The Rialto**  
**Melbourne, Australia**  
Set in a grand 1891 building, this upscale chain hotel is 3 blocks from the Yarra River, and an 8-minute walk from the SEA LIFE Melbourne Aquarium.

**Grand Hyatt: Union Square San Francisco Hotel**  
**San Francisco, United States**  
Less than a block from Union Square, this stylish high-rise hotel is an 11-minute walk from the Moscone Center and 1.9 miles from Pier 39.

Terms & Conditions: Clariden Global Pte Ltd reserves the right to change the venue of the program due to reasons beyond their control.

Contact Kevin Chan, Program Director at +65 6899 5030 | kevin@claridenglobal.org
WHY CLARIDEN GLOBAL EXECUTIVE EDUCATION?

GLOBAL ENGAGEMENT
Clariden Global is the pre-eminent and influential global business leadership institution. Today, we host more than 200 Global Executive Education and major conference events across 15 countries and 17 cities, including Singapore, London, Hong Kong, Sydney, Melbourne, Perth, New Zealand, San Francisco, Toronto, Johannesburg, Shanghai, Beijing, Kuala Lumpur, Dubai, Toronto, The Netherlands, New York and Zurich.

INTERNATIONALLY DIVERSE, SENIOR-LEVEL PARTICIPANTS
Clariden Global Executive Education programs have attracted participants from more than 5,000 global MNCs, regional corporations, and FORTUNE 500 companies, from more than 40 countries. All applications are reviewed based on professional achievement and organizational responsibility. Designed for individuals at all levels, from top executives to emerging leaders, each intensive program is crafted to equip leaders with essential capabilities to improve corporate performance and position their organizations to thrive.

THOUGHT LEADERSHIP
To provide strategic insights and relevant world-class executive education to global organizations, Clariden Global engages the best thought leaders and leading authorities from around the world. These include professors and faculty leaders from Harvard University, Stanford University, University of Pennsylvania Wharton, London Business School and other premium institutions to deliver transformational knowledge.

Contact Kevin Chan, Program Director at +65 6899 5030 | kevin@claridenglobal.org
PROGRAM

5G & IOT MASTERCLASS: KEY TECHNOLOGY COMPONENTS, BUSINESS MODELS, PRODUCT STRATEGY AND REVENUE STREAMS

PROGRAM INFORMATION

DATES
31 July - 1 August 2017

LOCATION
Mandarin Oriental, Singapore

TUITION FEES
Early Bird 1 (Register & pay by 5 June 2017): S$2,595
Early Bird 2 (Register & pay by 3 July 2017): S$2,795
Regular Tuition Fees: S$2,895

Group discount of 10% for 2nd participant from the same organization. For limited time only by 3 July 2017, register for 3 participants and the 4th participant will receive a complimentary seat (one discount scheme will apply).

Note: GST is applicable only to participants from Singapore registered companies. Check your eligibility for 40% Cash Back at IRAS website.

PROGRAM ADVISOR
Kevin Chan
Email: kevin@claridenglobal.org
Phone: +65 6899 5030

PROGRAM ESSENCE

This interactive session will show you the comprehensive roadmap of 5G technology deployment and strategy development in leveraging 5G technology in the future of IoT services. Besides that, you will have a multi-focus view on the key technology components of 5G, as being the crucial manifestation of International Telecommunication Union’s vision of International Mobile Telecommunications-2020.

Led by our seasonal mobile system specialist with more than 30 years of experience and completed more than 300 course events globally, Dr. Aleksander will guide you through the most recent developments in 5G wireless technologies, with special interest in Internet of Things (IoT) integration such as its most impressive examples on Vehicle-to-Everything connectivity (V2X) and Smart (Connected) Cities.

Dr. Aleksander M. Simon

- Mobile system specialist for more than 30 years who has completed more than 300 course events, totaling more than 1000 course days in locations all over the world
- Associate Professor of the Academy of Computer Science and Management in Poland that lectures on the subject of mobile system technologies
- Certified Ericsson Global Professional Instructor and one of the external experts of the National Foresight Program “Poland 2020”
- Authored the book on GSM/GPRS Mobile Networks, Services and Security

FACULTY DIRECTOR

Contact Kevin Chan, Program Director at +65 6899 5030 | kevin@claridenglobal.org
You will also be enlightened by the analysis of IoT business models, product strategies and revenue streams based on the Horizon 2020 EU Research and innovation programme that would assist you in making strategic business decision in 5G deployment. By discovering the key performance enhancement in 5G wireless communication, you will learn step-by-step strategy to reach a game changing network with faster download speed, ultra-low latency and high capacity offering.

**KEY BENEFITS**

By the end of this program, participants will be able to:

• Gain deep insight in the transition of 5G deployment from LTE for **faster download speeds, low latency and high capacity**

• Understand how **5G changes the whole ecosystem to rethink product strategy**

• Understand the **use cases of 5G deployment in shaping the future of IoT technology**

• **Grasp the emerging standards of 5G wireless** that would define the future of 5G implementation in 2020

• Discover **possible revenue streams** connected with the broad field of IoT

**WHO WILL ATTEND THIS PROGRAM**

This highly interactive program is designed for Executives, Managers, Directors, Head of Departments, C-Suite Level in, but not limited to, telecommunication strategies, network engineering, product development, 3G/4G/LTE/5G network management, as well as practitioners that involved in telecommunication finance management and business development and marketing of the organization.
Dr. Aleksander M. Simon has been a mobile system specialist for more than 30 years and has since founded ICT Services where he offers his experience in the field of mobile telecommunications in GSM/GPRS/UMTS/HSPA/LTE RAN and Core Network signalling, protocols and procedures to several clients since 2007.

During the last 6 years consulting stint, he also gained substantial knowledge of Nokia mobile network implementations. Prior to that, Dr. Aleksander started his career with the fast developing GSM business and subsequently moved to Ericsson Radio Systems AB in Stockholm where he was in charge of delivery of tailored training in the field of GSM/GPRS/UMTS systems for its global company customers. Since then, he has acquired the status of a Certified Ericsson Global Professional Instructor.

For the last 20 years Dr. Aleksander has worked with several training and consultancy companies in the field of mobile systems and has completed more than 300 course events, totaling more than 1000 course days in locations all over the world.

Dr. Aleksander has also been lecturing on mobile system technologies at the Academy of Computer Science and Management in Poland, where he currently holds the position of an Associate Professor. He is a member of the Polish Information Processing Society since 2004, and became one of the external experts of the National Foresight Programme “Poland 2020” in 2008. Dr. Aleksander has also authored the book on GSM/GPRS Mobile Networks, Services and Security.
According to a study by Accenture Strategy, it predicted 5G deployment would be able to yield an increase of 3 million new jobs and contribute to about USD500 billion economic boost. With speed of up to 100 times faster than 4G, 5G is bringing us closer to reality of remote surgery and flawless VR experiences. Despite we are closer towards the deployment of next generation 5G wireless network, there are plenty of aspect that telecommunication and network professionals need to take into account before we could fully rollout 5G into reality.

Led by our seasonal mobile system specialist with more than 30 years of experience and completed more than 300 course events globally, Dr. Aleksander will enlighten you with multi-focus view on the key technology components of 5G, as being the crucial manifestation of International Telecommunication Union’s vision of International Mobile Telecommunications-2020. You will also grasp the knowledge in analysis of IoT business models, product strategies and revenue streams based on the Horizon 2020 EU Research and innovation programme that would assist you in making strategic business decision in 5G deployment.

By the end of this 2-day executive program, you will be geared up with good understanding of 5G and IoT best theoretical knowledge as well as best practice to establish a concise roadmap in transiting your existing LTE-A topology to the future of 5G and IoT in your workplace.
DAY 1

Session 1: Comprehensive Overview of 5G Deployment
- Global market trends, milestones and standardization
- Mobile data growth forecasts and trends
- Mobile broadband: devices, services, applications, deployments and spectrum
- Wireless technology landscape – road to 5G

Session 2: Status of IMT-2020 in ITU and Progress of 5G in 3GPP
- Specifying IMT-2020
- Usage scenarios for IMT until 2020 and beyond
- 5G Radio Access Network: New Radio (NR) access technology
- 5G system architecture: principles, requirements and deployment scenarios

Session 3: 5G LTE-Advanced Pro Enhancements
- Multi User Superposition Transmission (MUST)
- Device-to-Device (D2D) communication
- In-door positioning enhancements
- Licensed Assisted Access (LAA) and LTE-WLAN Aggregation (LWA)

Session 4: 5G Network Services Related Enhancements
- Control and User Plane Separation (CUPS)
- Cellular Internet of Things (CIoT)
- Network Function Virtualization/Software Defined Network (NFV/SDN)
- Network Slicing for 5G networks and services
DAY 2

Session 5: Integration of 5G and Internet of Things (IoT)
- IoT market drivers and requirements
- Low Power Wide Area (LPWA) IoT technology landscape
- LTE Evolution for IoT connectivity – 5G enhancements
- The Tactile Internet

Session 6: Support for Vehicle-to-Everything (V2X) services
- Overview of V2X
- Benefits and challenges of V2X
- Role of 5G in V2X
- Typical V2X applications

Session 7: Smart (Connected) City concept
- Smart City definition and the Connected City Ecosystem
- Use cases identification and description
- Connected City architectures & framework
- Public-Private Partnerships Business model

Session 8: IoT business models, product strategy and revenue streams
- Business Model Framework for IoT applications
- Layers of the IoT value chain
- Product and service based business models
- IoT architectural layers vs. business models
### Participating Companies

More than 5,000 companies have participated in our programs.

#### Advertising, Internet, Media, Publishing
- BBC Worldwide
- CNN
- eBay
- LinkedIn
- MediaCorp
- Saatchi & Saatchi
- Singapore Press Holdings
- The Financial Times
- The Hoffman Agency
- The Walt Disney Company
- Thomson Reuters

#### Conglomerate
- Fraser & Neave
- General Electric
- General Motors
- Mitsubishi
- Monsanto
- Siemens AG
- Sodexo

#### Financial Services, Insurance
- Bank of America Merrill Lynch
- AIA
- Allianz Global Investors
- American Express
- Aviva
- AXA
- Barclays Bank
- Citibank
- DBS Bank
- Deutsche Bank
- HSBC
- JP Morgan Chase Bank
- Manulife
- MasterCard
- Maybank
- Mizuho Bank
- OCBC Bank
- PayPal
- Prudential
- Rabobank
- Standard Chartered Bank
- Suncorp
- Swiss Reinsurance
- TD Securities
- Visa
- Westpac
- Zurich Insurance

#### Food, Beverage
- Coca-Cola Beverages
- Danone
- Ferrero
- Heineken
- McDonald
- PepsiCo

#### Government, Nonprofit
- Australian Securities and Investments Commission
- Central Provident Fund Board
- Changi Airport Group
- Economic Development Board
- GIC
- NSW Treasury
- Serco
- Temasek Group

#### Healthcare, Pharmaceuticals
- Abbott Laboratories
- Eu Yan Sang
- Glaxosmithkline
- Hoffmann-La Roche
- Johnson & Johnson
- Merck
- Pfizer
- Sanofi

#### Hospitality
- CapitaLand
- Far East Organization
- Frasers Hospitality
- Hilton Worldwide
- Marriott Hotels
- Pan Pacific Hotels Group
- Shangri-La Hotels & Resorts

#### Manufacturing (Consumer)
- British American Tobacco
- Estee Lauder
- Fonterra Brands
- Heineken
- Kimberly-Clark
- Kraft Foods
- Lego
- Mars Foods
- Nestlé
- Procter & Gamble
- Unilever

#### Manufacturing (Industrial)
- Airbus
- Corning Optical Communications
- Daimler
- Harley Davidson
- Intel Semiconductor
- Rolls-Royce
- Volvo Group
- Wearnes Automotive

#### Oil & Gas, Natural Resources
- Caltex
- Chevron
- ConocoPhillips
- ExxonMobil
- Maersk

#### Professional Services
- AECOM
- Aon Hewitt
- Ernst & Young
- PricewaterhouseCoopers

#### Retail, Trade
- Adidas
- Cargill
- DFS
- Harvey Norman
- Hennes & Mauritz
- IKEA
- L’Oréal
- Marks and Spencer
- NTUC Fairprice
- Tesco

#### Technology, Electronics
- 3M
- Apple
- Canon
- Dell
- Hewlett Packard
- Intel Technology
- Lenovo
- Micron Technology
- Microsoft
- Oracle
- SAP
- Sony Electronics
- TE Connectivity

#### Telecommunications
- Ericsson
- Nokia
- Olive Communications
- Singtel
- Starhub
- Tata Communications
- Telstra
- Verizon
- Vodafone

#### Transportation
- Auckland Transport
- Cathay Pacific Airways
- Dubai Air Navigation Services
- New Zealand Transport Agency
- Fiji Airways
- Metro Trains Melbourne
- NSW Trains
- SBS Transit

Contact Kevin Chan, Program Director at +65 6899 5030 | kevin@claridenglobal.org
Aleksander Simon is a perfect lecturer. The Course Organization and the way which he prepares his lessons makes the students become absorbed the issues with pleasure.

I know Alexander as very qualified trainer with strong background and great good soft skills. He is really expert, he has only perfect feedbacks from his customers.

Ivan Popryga
CEO, Hivex Solutions

Wojciech Chodacki
CEO & CTO, ARPNET
Clariden Global delivers custom learning programs for organizations all around the world. Whatever your business challenges are, we create focused learning experience that enables your organization to achieve success. Through partnerships with the most renowned thought leaders, industry experts and professors from around the world, these in-house custom executive programs will equip you with essential skills and capabilities to develop and implement strategies more effectively at your organization.

Engage with our thought leader today:

Dr. Aleksander M. Simon

Trainer & Consultant

ICT Services

Dr. Aleksander M. Simon has been a mobile system specialist for more than 30 years and has since founded ICT Services where he offers his experience in the field of mobile telecommunications in GSM/GPRS/UMTS/HSPA/LTE RAN and Core Network signalling, protocols and procedures to several clients since 2007. He is a Certified Ericsson Global Professional Instructor and a member of the Polish Information Processing Society since 2004, and became one of the external experts of the National Foresight Programme “Poland 2020” in 2008.
We encourage you to learn more about Clariden Global Executive Education custom and open-enrollment programs. Our staff will be happy to answer your questions and help you determine the programs work best for you and your organization.

**ENQUIRY FOR THIS PROGRAM**
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**REGISTRATION & PAYMENT MATTERS**
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Phone: +65 6899 5030

**CUSTOMIZED PROGRAMS**
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Fax: +61 3 9909 7788  
Address: Clariden Global Pty Ltd  
530 Little Collins Street, Level 1  
Melbourne VIC 3000, Australia
### PROGRAM FEES

<table>
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<tr>
<th>Program (31 July - 1 August 2017): 5G &amp; IoT Masterclass: Key Technology Components, Business Models, Product Strategy And Revenue Streams</th>
<th>1st Early Bird Fee (if payment &amp; registrations are received by 5 June 2017)</th>
<th>2nd Early Bird Fee (if payment &amp; registrations are received by 3 July 2017)</th>
<th>Regular Fee Per Participant</th>
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### 4 WAYS TO REGISTER

- **Email**: admissions@claridenglobal.com
- **Fax**: +65 6567 4328
- **Call**: +65 6899 5030
- **Website**: www.claridenglobal.com

### GROUP DISCOUNTS

Group discount of 10% for the 2nd participant from the same organization. For limited time only by 3 July 2017 register 3 participants and the 4th participant will receive a complimentary seat.

*One discount scheme applies.*

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<th>Booking Contact (Approving Manager) Mr/Mrs/Ms:</th>
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I would like to receive more information on hotel accommodation using Clariden Global corporate rate.

Please register the following participant for this seminar. [Please tick ☐ to select your seminar(s). You may tick more than one.]

1st Participant Name (Mr/Mrs/Ms): 
Job Title: | Department: | Telephone: | Fax: | Date of Birth: |
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### 3 PAYMENT METHODS

- **By Cheque/ Bank Draft**
- **By Telegraphic Transfer**
- **By Credit Card**

An invoice and registration confirmation will be sent within 7 days, please contact us if you have not heard from us within 7 days. Payment details will be sent together with the invoice based on your preferred payment method.

ALL PAYMENTS MUST BE RECEIVED IN ADVANCE OF THE EVENT.

### VENUE AND ACCOMMODATION INFORMATION

Mandarin Oriental, Singapore
31 July - 1 August 2017
5 Raffles Avenue, Marina Square, Singapore 039797
+65 6338 0066
http://www.mandarinoriental.com/singapore/

Accommodation is not included in the program fee but you will be entitled to use our corporate rate for your accommodation. Information will be sent along with your registration confirmation.

### CANCELLATIONS AND SUBSTITUTIONS

*All cancellations must be received in written form.*

Once we have received your booking, the place(s) are confirmed. No refunds will be made for any cancellations, however, program credits of equivalent value only applicable for Clariden Global events will be provided. Credits can only be redeemed for 1 program and is valid for only one (1) year from date of issue.

Substitution with a qualified candidate is allowed by providing at least 5 working days of advance notice to Clariden Global. One time substitution is allowed with no charges. Subsequent substitutions will be charged 10% admin fee.

PLEASE NOTE: Clariden Global Pte Ltd reserves the right to change the content and timing of the programme, the speakers and the date and venue due to reasons beyond their control. If in the unlikely event that the course is cancelled, Clariden Global Pte Ltd will refund the full amount and disclaim any further liability.

PRIVATE DISCLOSURE STATEMENT: Any information provided by you in relation to this event is being collected by Clariden Global Pte Ltd and will be held in the strictest confidence. It will be added to our database for the primary purpose of providing you with information about future events and services.