Keynote: “Dependable Computing in Banking and Finance Industry”

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Abstract:

It is often said that industries that have direct impacts on people's Health and Wealth are most critical and personal and, as such, need to be most reliable and dependable. Medical and aviation industries, for instance, affect the health and life of many people, while banking and finance industries look after people's hard-earned wealth.

This presentation will focus on four broad aspects of Dependable Computing in the Banking and Finance industries:

1. Accuracy and usability, in terms of functionality and performance, i.e. doing what is expected in a sustainable way;
2. Availability and Reliability, especially for real-time on-line non-stop systems such as equities trading and e-Banking;
3. Security and Integrity, which is most important to the banking industry as it relies on customers' trust to operate; and
4. Process and People, for systems on their own cannot run without the support of strong technical and operational teams.

The challenges and opportunities presented by these four aspects of Dependable Computing to all but particularly Banking and Finance industry will be discussed, using live examples and case studies as reference. Additionally, some ideas and solutions will be proposed for further research in this space going forward.
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Biography:

Mr. Michael Leung was appointed Senior VP and CIO of Bank of America (Asia) in March 2000. In this capacity, he manages the Bank's IT function in its entirety, including technology infrastructure and business applications development, project management, as well as production systems support and data center operations. Mr. Leung is also in charge of operations planning, product support and corporate service departments of the Bank.

Mr. Leung has over 30 years' Asian and international experience in information technology, focusing largely in the banking and finance industry. Before joining Bank of America (Asia), he was a senior manager at Standard Chartered Bank, overseeing service delivery systems as well as M&A activities for its Consumer Banking Division in Asia Pacific Region. Previously, Mr. Leung was the head of Business Research and Development Department of Development Bank of Singapore, responsible for developing new business models and sale and service channels for its Direct Banking operations.

Prior to his banking career, Mr. Leung was a managing consultant at IBM Consulting Group and Price Waterhouse Management Consulting Services in Hong Kong and Australia, which included a project assignment at the IBM Lab in Research Triangle Park, North Carolina, USA. Immediately after his post-graduate study in Holland, Mr. Leung spent nearly 10 years with the Dutch Philips Telecommunications and Data Systems, involving in the development and pre-sales support of banking terminals and transaction processing systems in Europe and across Australasia.

Mr. Leung holds a Master degree in Engineering from The Netherlands Universities Foundation and a Bachelor of Science (Electronics / Computer Science) from the Chinese University of HK, all on full scholarships. In his over three decades of professional development, Mr. Leung has attended executive training at London Business School, MIT Sloan, an honor diploma from Graduate School of Retail Bank Management of University of Virginia, among others. He is a fellow and vice president of the HK Computer Society, as well as a fellow of the HK Institute of Directors and several professional bodies. Among his public duties, Mr. Leung serves as a chair assessor of the HK Council for Accreditation of Academic and Vocational Qualifications, chairman of the Program Advisory Committee of the Information Systems Department of City University, and vice chairman of the Down Syndrome Association.