

## 專 題 演 講

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題 目： *5G O-RAN and 5WWC for Secured Next-Gen Network*

大 綱：

The growing importance of 5WWC, 5G/WiFi wireless and wireline convergence, enhances the 5G ecosystem to fixed-line services and offers a full end-to-end solutions with improved network security. 3GPP and Broadband Forum (BBF) had united to collaborate technical specifications defining the services and systems required to support 5G WWC architectures. The applications of 5WWC of residential gateway and system integration of enterprise AP includes smart manufacture via hybrid 5G and WiFi, heterogeneous edge servers, etc.

This speech will cover 5G open-RAN and WiFi 7 solution consists of O-RAN ALLIANCE' s Conformance Certification awarded O-RU (Radio Unit), FPGA-based SmartNIC, Xeon-D CPU based 5G CU/DU slim server, industrial router, L1/L2/L3 integrated software and WiFi Enterprise AP.

The solution passed the end-to-end testing for the applications of 5G smart factory, healthcare, surveillance, and enterprise scenarios. The SmartNIC can be used for 5G high-PHY forward error correction, low-latency 5GC UPF acceleration and MEC network function virtualizations.

簡 歷：

莊俊雄現職啟基科技網通技術長，南加大電機博士，交大碩士及學士。曾任職 Philips Semiconductor、創品電子、其樂達科技及工研院電通所寬頻無線技術組，現職負責 5G 無線寬頻之系統與整合、WiFi 新技術之軟硬體開發等下世代網通研發與新事業開展。曾帶領團隊研發「 802.16e 行動通訊晶片」獲經濟部 100 年國家發明創作貢獻獎及「Sub-Threshold 系統晶片設計」工研院 102 年傑出研究「金牌獎」。為 IEEE 資深會員，2018 年獲總統頒發傑出工程師獎。