

Virtual Edge Computing for Government

Creating a distributed computing topology at the 'edge'

Online | Wednesday, 10 March 2021

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Agenda Overview

In recent years, the public sector has used cloud computing and data centres to process and store critical data. Even more recently, edge computing has emerged to assist with these practices, distributing data collection, processing and storage across the 'edge' of the network.

Edge computing allows for raw data to be processed closer to the point of collection by leveraging edge-based technologies. From wearable sensors, to satellites, mobile data centres, cell sites and sonar technologies, the opportunities to implement edge computing in the public sector are vast. Edge-based technologies create interoperable IT ecosystems that integrate the Internet of Things (IoT), cloud computing and data centres to reduce processing time and decentralise storage. Edge computing also enhances analytics by providing real-time insight into raw data, tackling periodic surges in processing and allowing government to better manage seasonality or unpredictability.

Public Sector Network's **Virtual Edge Computing for Government** Summit will explore how edge-based technologies can assist in data collection, computation and storage. By reviewing emerging government initiatives, enterprise architects and IT systems professionals can enhance existing best-practice by creating a distributed computing topology, combining existing infrastructure with the technologies on the edge.

Speakers



PROF JEREMY WATSON

Director, PETRAS National Centre of Excellence; Professor of Engineering University College London (UK)



MARTY SMYTH

Chief Executive Officer
Emergency Services
Telecommunications Authority (ESTA)



DR ALEXANDER HELD

Director
CSIRO Centre of Earth Observation



CHRIS BUXTON

Chief Digital Officer
Stats NZ Tauranga Aotearoa



DR ELKE HACKER

Research Fellow, School of Public Health and Social Work
Queensland University of Technology



JAS SINGH

Chief Data Services Officer
Emergency Services
Telecommunications Authority (ESTA)



PETER LEES

Chief Technologist
SUSE

Reasons to Attend

Realise how edge-based technology can enhance data collection, computation and storage within your agency



Gain better insights into raw data by harnessing real-time analytics to anticipate and plan for demand



Build a decentralised data storage network to increase information security and mitigate risks to critical information



Explore a range of case studies from across sectors that demonstrate how government can harness edge-based technologies in new and innovative ways



Establish better analysis, transmission and accessibility of data between agencies by integrating edge-computing into existing best practice



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09:00am	PSN Opening	10:05am	Government Case Study NovaSAR-1 Satellite: Emerging opportunities in the field of remote sensing <ul style="list-style-type: none"> Reviewing how the CSIRO's Centre of Earth Observation is using satellite-derived data to monitor and help manage Australia's environment, including expertise in the acquisition, storage, processing and analysis of rapidly growing data sets Exploring the benefits of SAR technology and how it can provide the raw data required to assess impact and model disaster and risk scenarios specific to Australia Establishing Australia's position in the global 'space economy' by building partnerships with international space agencies and organisations (namely the UK's Surrey Satellite Technology Limited (SSTL)) Dr Alexander Held , <i>Director</i> , CSIRO Centre of Earth Observation
09:10am	Chair Opening Enhancing best-practice by developing innovative data processing systems <ul style="list-style-type: none"> Exploring the potential for edge computing practices to be implemented in tandem with existing 'hard' and 'soft' infrastructure Equipping agencies with better data insights by moving computation closer to the point of collection 	10:20am	Break
09:20am	International Keynote Session Discovering emerging technologies at the 'edge' <ul style="list-style-type: none"> Exploring edge-based innovations in the IoT (Internet of Things), including distributed Machine Learning Reviewing the work and research of the PETRAS Centre of Excellence for Cybersecurity of IoT Systems, and how they are assisting government to implement edge-based data practices Strategising ways to integrate edge computing in existing systems of data storage and computation Professor Jeremy Watson , <i>Director, PETRAS National Centre of Excellence; Professor of Engineering Systems, University College London (UCL)</i>	10:25am	Panel Discussion Exploring new and innovative methods of edge computing from across sectors <ul style="list-style-type: none"> Reviewing the variety of edge-based technologies, and how each can be implemented in a range of government portfolios Strategising a roadmap for the integration of edge-based technologies in existing IT ecosystems Identifying opportunities for edge computing throughout the public sector Chris Buxton , <i>Chief Digital Officer, Stats NZ Tauranga Aotearoa</i> Dr Elke Hacker , <i>Research Fellow, School of Public Health and Social Work, Queensland University of Technology (QUT)</i>
09:35am	Government Case Study: Leveraging edge computing and IoT in digital transformation to increase citizen access to services <ul style="list-style-type: none"> Enabling people with a disability, and culturally and linguistically diverse (CALD) communities to access emergency services by evolving ESTA's organisation, technology and IT eco-systems to meet end-user needs Exploring how NG000 (Next Generation 000) leverages edge computing and IoT technologies, sensors, video and social media to provide alternative access to community services Embarking on a digitally transformative journey to ensure ESTA's services remain customer experience and citizen centric focused Marty Smyth , <i>Chief Executive Officer</i> , Emergency Services Telecommunications Authority (ESTA) Jas Singh , <i>Chief Data Services Officer</i> , Emergency Services Telecommunications Authority (ESTA)	11:10am	End of Session
09:50am	Partner session: Presented by SUSE Peter Lees , <i>Chief Technologist</i> , SUSE		

Partners

