



Speaker: Asif Anwar, Director, Strategy Analytics

Title: Complex Operation in Urban Environments – Challenges for Radar, EW and communication Technologies

Abstract:

Asymmetric threats and border protection are amongst the key drivers that will dictate defence spending through 2025. Requirements to look both inwards as well as across borders will be enabled via a layered surveillance structure that will enable operators to ‘see everything everywhere all the time’, while remaining situationally aware so that you, see what you need to see’. However, with the commercial market radio spectrum land grab continuing unabated, the challenges for radar, EW and communications systems will include being able to operate effectively in an increasingly congested spectrum environment, while also combating new potential threats such as the use of unmanned systems, potentially in conjunction with other emerging military system technologies.

Strategy Analytics sees operations in the urban environ underpinned by capabilities spanning RF and digital capabilities combining the robust power and wideband capabilities of III-V processes and the integration advantages offered by silicon and related SOI-based technologies.

Join Strategy Analytics for a lunch and learn session where the following questions will be considered:

- Will the speed at which the commercial market continues to gobble up spectrum provide an opportunity or hindrance to future military operations in an urban environment?
- Will the requirements to have systems that can adapt to the complex spectrum environment lead to future military systems that are cognitive and if so, where does that leave the human-in-the-loop
- Unmanned systems are great...now how do we bring them down...safely – are laser weapons the answer?

Bio:

Asif Anwar has a career that spans both engineering and marketing roles in the metals, minerals and electronics industries. He has been providing insights and analysis in the advanced electronics markets for over 15 years, covering radar, electronic warfare, military communications as well as commercial market applications.

His current focus at Strategy Analytics is on supporting the defense industry across all the different segments, from platform and systems integrators, sub-system suppliers, software vendors and component and semiconductor technology providers. He regularly attends and

speaks at external conferences and webinars on topics including global defense spending trends, military radar, satellite communications and other areas germane to the military sector, as well as being an acknowledged expert and thought leader in the compound semiconductor industry. Anwar is a member of the IEEE (including AESS, MTTTS and ComSoc) as well as the IChemE.