



OPERATIONAL ART IN THE 5TH-GENERATION ERA

In 2025, our Air Force will be...the only truly 5th-generation-enabled air force in the world, provided that we successfully transform our Air Force to operate our new capabilities as a true integrated system of systems in the joint context.... Our journey will not be easy. There are many diverse and difficult things to do and...time is short.

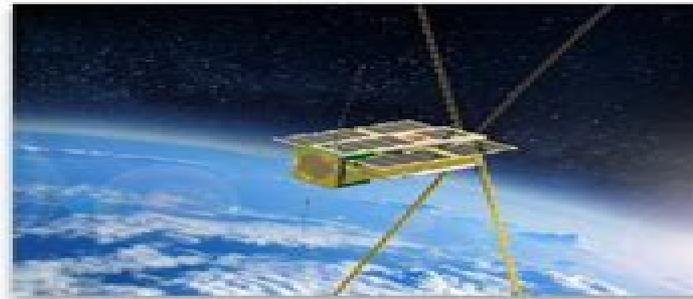
Air Marshal Leo Davies

In the late 1990s, military thinkers realised that commercial information technology developments could lead to a new type of warfare built on digital computer networks. These ideas have progressively evolved into the 5th-generation air warfare concept that now comprises the following four major parts.

- 1. Networks.** In a conceptual sense, four interconnected and interdependent virtual grids—information, sensing, effects and command—overlay the operational theatre. The various force elements, from individuals and single platforms to battle groups, are then interacting nodes on the grids. Each node can receive, act on, or pass forward data provided from the various grids as appropriate.
- 2. Combat Cloud.** In working together, the grids can form a virtual combat cloud that the various nodes can pull data from, and add data to, as necessary. This brings several tactical benefits including considerably improving situational awareness, making long-range engagements more practical, ensuring no single node is critical to mission success, allowing each node to designate targets to other nodes and ensuring the best use is made of the different diverse capabilities offered by each node.
- 3. Multi-Domain Battle.** There are five operational domains: land, sea, air, space and cyber. The key idea animating multi-domain battle is cross-domain synergy—the use of armed force across two or more

domains to achieve an operational advantage. Acting in a complementary manner, rather than an additive one, each capability enhances the effectiveness of the whole while lessening the individual vulnerabilities of each platform. Linking across domains means that the integrated force overall can be self-healing in that destruction of any single node may be able to be compensated for by another node in a different domain.

- 4. Fusion warfare.** The fusion warfare concept seeks to address command and control concerns arising from the increasing volume and speed of information flows, software incompatibilities and intrinsic vulnerabilities to attack and deception.



In future conflicts, space will be one of five operational domains

Fifth-generation air warfare offers much but its practical implementation is not easy. Considerable effort is required to create decision-quality data and then establish the robust network connectivity needed to support combat cloud, multi-domain battle and fusion warfare concepts. Fifth-generation air warfare is a very complicated way of war that requires substantial focused preparation being undertaken before a conflict, and significant dedicated support during it. Success in 5th-generation air warfare is hard won.

There are two in-built vulnerabilities given the information technology foundation of 5th-generation air warfare. Digital systems are inherently susceptible to cyber intrusions that may steal data, delete data, change data or insert false data that can quickly spread

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