



Skynet 5 Service Provision

In a rapidly changing world, beyond line of sight communication has become an essential mechanism for enabling integrated command and control of military operations.

The diverse range of military operations and the information required in today's digital battlespace mean that satellite communications play an increasingly important role in providing and sharing instantaneous voice, video and data between ground, sea and air platforms.

UK forces on duty around the world therefore rely more than ever on satellite communications to help achieve their operational objectives.

As part of the Astrium team, Logica is leading the design and integration and providing long-term support to the management segment for Skynet 5 - the next generation military communications satellite.

Background

The first of the Skynet 5 next generation satellites is now delivering a step function increase in communications capability to the UK armed forces.

For the first time this capability is being delivered in the form of a service provision contract. Skynet 5 is being procured by the Ministry of Defence (MOD) under a Private Finance Initiative from the Astrium team, led by Paradigm Secure Communications.

By choosing this highly flexible and cost effective service provision solution, the MOD will receive guaranteed and completely secure communications whenever and wherever required. The risk of managing the space infrastructure will be eliminated and benefits will be realised from new technologies and increased capacity.

The Skynet 5 contract calls for Paradigm to deliver communications services initially through the transfer of ownership and operation of the existing Skynet 4 infrastructure (commenced May 2003), and then by incorporating new Skynet 5 satellites and associated ground segment supplied by the system prime-contractor Astrium Satellites. The first satellite was launched in March 2007 and is now in operation.

Supported by the UK Defence Export Services Organisation (DESO) and within a gain-sharing framework with the MOD, Paradigm will also offer the same levels of service and security to other governments and organisations, such as NATO.



Delivering information to UK forces world-wide

Logica's role

Logica is the software prime contractor supporting the system prime, Astrium, and is applying its commercial telecoms experience to provide the one million lines of code core software that will support Paradigm's service delivery.

As prime contractor for the management segment, Logica is supplying all of the key functionality for the complete telecom operator's back office which ensures successful operation of Skynet 5. This includes all aspects of network management from business support and customer relationship management through accounting, performance, configuration and fault management to network and security control.

Logica is responsible for the complete supply of the management segment during the Skynet 5 construction phase of the programme. Our role extends to the provision of service support and maintenance of the operational software throughout the 15-year life of the Skynet 5 service period.

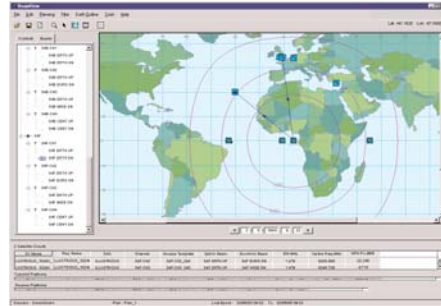
Logica's solution

Logica's approach to the Skynet 5 management segment is based on the Telecommunications Management Network (TMN) Model. This provides a layered framework within which management functions can be defined and delivered. The application of TMN facilitates the use of commercial off-the-shelf (COTS) software packages, many of which have been tailored to address specific elements of the TMN framework.

Our approach to designing the management segment has been to use an open design concept so that changing operational needs and technology refresh can be readily accommodated, and experience from operational use can be fed back into new service options.

The use of COTS software integrated with bespoke software development provides a highly automated end-to-end telecom operator management segment structured to accommodate legacy systems and well as planned new systems.

Finally, but perhaps most importantly, Logica's design includes all of the security features necessary to meet the demanding requirements of the Skynet 5 user community.



Linking UK forces rapidly and reliably

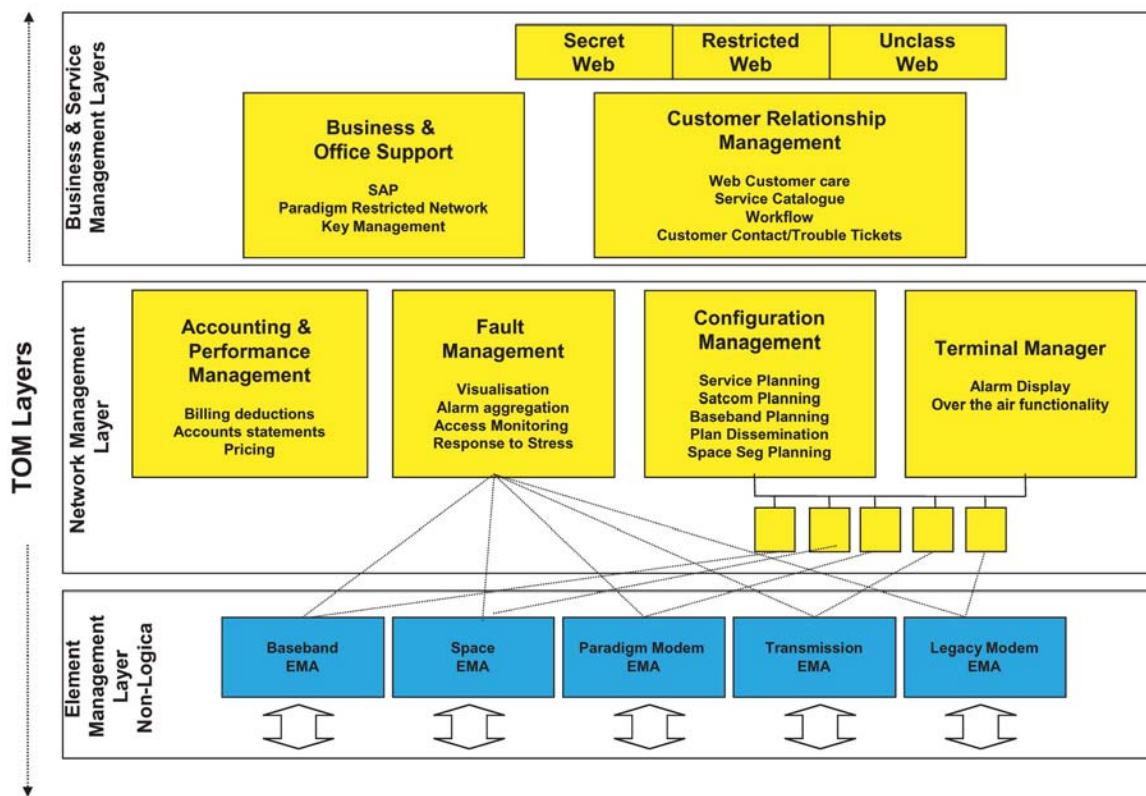
Why Logica?

Logica offers software solutions supported and maintained throughout the full software lifecycle to both terrestrial and satellite communications customers.

In the space sector, Logica software supports the missions of a third of the world's satellites.

In commercial telecoms, Logica has supplied world-class solutions to over 100 operators on five continents and our solutions have been market-tested in the most competitive environments in the world including Europe, the USA and Japan.

Logica has one of the largest security practices in Europe. It is the UK leader in information security management and was one of the first organisations to obtain BS7799-2 certification.



Skynet 5 management segment brings commercial service performance to military satcoms

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