Reacher

Reacher is a mobile, deployable communications hub, delivering Skynet 5 services to the battlefield and forming the cornerstone of long haul land communications for the UK MoD. Reacher offers reliable, survivable and flexible communications to support tactical networks and end users. Reacher is a key enabler for the Global Communications Network and transition to IP based communication service offering flexibility for deployed operations through multi carrier and networked service capability.

Reacher is a modular design with Medium, Large and Royal Marine variants deployed worldwide. It has been designed and tested in close cooperation with UK MoD to provide high utility and flexibility under a wide range of environmental and operational conditions. Reacher was successfully introduced into service in 2008 and was immediately deployed to Afghanistan where it continues to provide critical UK reach back services today.

Reacher supports the full range of Skynet 5 communications services:

<table>
<thead>
<tr>
<th></th>
<th>Royal Marine</th>
<th>Medium</th>
<th>Large</th>
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</thead>
<tbody>
<tr>
<td>Assured aggregate throughput</td>
<td>8MB</td>
<td>24MB (3 x 8MB)</td>
<td></td>
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<tr>
<td>RF Capability</td>
<td>2.4m antenna</td>
<td>EIRP 65dBW</td>
<td>4.5m antenna</td>
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<tr>
<td></td>
<td>EIRP 20dB/K</td>
<td>G/T 71dBW</td>
<td>G/T 27dB/K</td>
</tr>
<tr>
<td>Initial Entry Communications</td>
<td>8 voice channels</td>
<td>4 secret IP data channels</td>
<td></td>
</tr>
<tr>
<td>Network Services</td>
<td>Restricted IP access/interconnect</td>
<td>Secret IP access/interconnect</td>
<td>Tactical ISDN</td>
</tr>
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New Variants

Airbus Defence & Space are currently developing 2 new Reacher service variants:

- The proposed High Capacity Reacher modifies the existing Reacher Medium Terminal to deliver an aggregate throughput of up to 32 MB and additional network services to enable the delivery of ISTAR products such as RAPTOR
- The proposed Reacher Hub modifies the existing Reacher Large Terminal to deliver an aggregate throughput of up to 64 MB and the ability to anchor up to 11 commercial satellite terminals

Key Benefits

- All Skynet 5 communications services – available at deployed locations
- A single hub can be deployed over operational scenarios and environmental conditions
- Each vehicle has been designed for extended use
- Setup time: fast deployment times, minimum time to ‘go live’, be operational quicker
- 24/7 technical helpdesk – customer satisfaction, minimum down time, peace of mind

Features

Each Reacher comprises:

- Dismountable communications cabin
- Remote baseband allowing remote operation up to 500m
- Integral environmental conditioning and thermal shielding
- Each terminal has full generator redundancy
- Air, Sea and Rail transportable

Airbus Defence and Space the world’s leading provider of reliable but affordable satcom solutions into Military and Government organisations. Airbus Defence and Space can be implicitly trusted to design integrated solutions that deliver rapid connectivity and information assurance whenever and wherever needed. Trusted to own and/or operate satellites for UK, NATO, Germany and UAE Governments. Airbus Defence and Space delivers a seamless blend of accredited military and commercial services tailored to meet the unique needs of individual customers. Airbus Defence and Space delivers welfare communications for deployed forces worldwide, and provides a range of value added services including remote tracking and alert services.