Surveillance Competence
for Surveillance and Security

The Surveillance Competence Center (SCC) for ground-based air space surveillance systems delivers customized and supplier-independent services across all stages of the value chain.

The SCC undertakes maintenance and engineering as well as optimization and modernization as a supplier-independent service center, over the whole lifecycle of a surveillance system. We offer experience and expertise across the whole value chain. The SCC is responsible for the maintenance, repair and overhaul of the Swiss air defence ground environment and offers a comprehensive spectrum of services for projects of all sizes within the scope of ground-based radar systems and related technologies.

Our three core competencies:
DETECT, PROCESS, DISPLAY

The radar specialists of RUAG ensure that the exacting requirements of our customers concerning reliability & availability, accuracy & precision, and maintainability are fulfilled – focussing on timeliness, quality and cost optimization. Our competence is based on many years of experience in supporting systems of the Swiss Armed Forces and civil customers.

DETECT
- Microwave, waveguide and antenna technologies
- High-frequency and high-power electronics
- Radar, ADS-B and multilateration: highly-sensitive electronics
- Cabling, drive, electromechanical and mechanical aspects
- Test and measurement for digital and analog electronics

PROCESS
- Analog and digital signal processing
- Data processing techniques, real-time, embedded systems
- System control/BITE systems engineering
- System calibration

DISPLAY
- Display technologies
- Display conversion for background display (map)
- Data communications
- Console design
- Data quality measurement and analysis practices
Tailor-made services across the entire lifecycle

The SCC of RUAG is a supplier-independent service center and links planning, implementation and utilization.

The fulfilment of customer requirements and the delivery of designated services are assured through custom tailored services and specialist contributions assembled from the entire spectrum of SCC services.

The SCC is based on well-founded established services and comprehensive specialist know-how.

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**Our Service Offer**

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<tr>
<th>Category</th>
<th>Description</th>
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<tr>
<td>Studies</td>
<td>Technical studies, analyses, feasibility studies, solution conception</td>
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<tr>
<td>Consultancy</td>
<td>Independent technical consulting for radar, multilateration and ADS-B, market and technology watch, requirements definition &amp; requirements engineering, collaboration during the evaluation of new systems</td>
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<td>Project support</td>
<td>Project support according to customer requirements</td>
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<td>Project management</td>
<td>We provide leadership at all levels for all project phases</td>
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<tr>
<td>Surveillance Systems Engineering</td>
<td>Design, Planning and Execution of engineering projects in the surveillance areas of DETECT, PROCESS, DISPLAY, with engineering design and prototyping if required, coordination of all activities taking the overall system of systems into account</td>
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<tr>
<td>Integration</td>
<td>Installation, testbed and platform integration, release migration</td>
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<td>Testing</td>
<td>Generation of test plans, organization und execution of unit tests and system tests</td>
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<td>Training</td>
<td>Organization and performance of training courses</td>
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<td>MRO activities</td>
<td>Maintenance, inspection, overhaul, repair, technical modification &amp; upgrade/update service, service engineering</td>
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<td>Operation</td>
<td>Operation of systems according to customer requirements</td>
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<td>Radar Sensor Data Quality</td>
<td>Data quality control, systematic collection, analysis, management, archiving including methods and tools</td>
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<td>Documentation</td>
<td>Planning and realization, document issue &amp; currency control, document maintenance, document lifecycle management</td>
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<tr>
<td>Decommissioning</td>
<td>Dismantling and proper disposal of radar and related installations</td>
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Our know-how
The skills and knowledge of our specialists are continually refreshed and supplemented through professional further education. Competencies for long in-service periods are therefore assured and available on demand.

Our customers include several international surveillance equipment manufacturers, governmental meteorological institutes, a renowned search and rescue organization, a well-known air navigation service provider (ANSP), our sister company RUAG Aviation and many other partners in industry throughout the world. And of course we are active in new technologies like multilateration and ADS-B.

Naturally, as prime MRO partner for the Swiss Armed Forces, we collaborate closely with the Swiss Armed Forces’ Procurement Agency, Logistics, Command Support and Air Force.

Your Benefit
The planning, implementation and use of airspace surveillance technologies requires resources and competencies which are often in short supply in your own organization.

Here we offer a decisive advantage: our customers do not have to acquire airspace surveillance system expertise themselves and can instead gain full use of our experience and specialist knowledge.

Specific needs, requirements and criteria are defined by you, the customer; we support you completely during implementation and utilization phases. With comprehensive service level agreements we ensure that the costs remain transparent and clearly calculable. Thus we can guarantee our customers sustainable benefits with our professional services.

The advantages of the SCC at a glance

Technology Competence
Radar technology is key for civil and military airspace surveillance. The SCC of RUAG bundles the required know-how and is unique in its scope and depth.

Neutralty
Our independence from manufacturers and suppliers guarantees you objective consulting and optimal support.

Extensive Services
We accompany you over the whole lifecycle of a system and make our knowledge available to you for optimization and further development. You can concentrate wholly on your core business and thereby conserve valuable resources.

A strong technology partner for your success.