

SATCOM ARCHITECT

Fachprofil / Technical profile

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DE - Fachprofil

Fachprofil zu Satellitenkommunikation, Systemarchitektur und RF-Engineering. Allgemeine technische Themen und Arbeitsweisen; keine Leistungsangebote oder Projektreferenzen.

Fachthemen

- End-to-End Systemarchitektur (Space/Ground/User, Schnittstellen, Redundanz, Verfügbarkeit)
- RF Engineering & Linkbudgets (L/S/C/X/Ku/Ka, Interferenz, Verfügbarkeit, Performance)
- Ground Segment: Bodenstationen, Teleports, Gateways, Antennen- & Feed-Systeme
- Integration, Validierung, Abnahme (IVA) und On-site Troubleshooting
- Technische Risiko-/Kostenbewertung, Supplier Reviews, Subsystem-Koordination

Grundsätze der Arbeitsweise

- Klare, dokumentierte Entscheidungen
- Engineering-nah und stakeholderfähig
- Pragmatik und nachvollziehbare Nachweise
- Integration und Abnahme früh mitdenken
- Traceability von Anforderungen zu Tests und Evidence

Beispiele technischer Unterlagen

- Architecture Decision Records / Review Reports
- End-to-End Link Budgets & Availability Assessments
- Interface Control und Schnittstellen-Workshops
- Test-/Acceptance Support (IVA), Evidence Packs
- Supplier Technical Evaluation / Compliance Reviews

EN - Technical profile

Technical profile in satellite communications, system architecture and RF engineering. General technical topics and working methods; no service offers or project references.

Technical topics

- End-to-end system architecture (space/ground/user, interfaces, redundancy, availability)
- RF engineering and link budgets (L/S/C/X/Ku/Ka, interference, availability, performance)
- Ground segment: ground stations, teleports, gateways, antenna and feed systems
- Integration, validation, acceptance (IVA) and on-site troubleshooting
- Technical risk/cost assessment, supplier reviews and subsystem coordination

Working principles

- Clear, documented decisions
- Close to engineering and suitable for stakeholders
- Pragmatism and traceable evidence
- Consider integration and acceptance early
- Traceability from requirements to tests and evidence

Examples of technical documents

- Architecture decision records / review reports
- End-to-end link budgets and availability assessments
- Interface control and interface workshops
- Test/acceptance support (IVA), evidence packs
- Supplier technical evaluation / compliance reviews