

GSaaS SUPPORT SERVICES

For Satellite Data Users

GSaaS assessments

Application tailoring

Deployment support

Onboarding / integration support

OUR GSaaS SUPPORT SERVICE

Our Ground Stations as a Service (GSaaS) Support Services help satellite data users communicate reliably with GSaaS satellite providers, including Azure Orbital or AWS Ground Station to establish satellite contacts and ensure access to their data.



GSaaS ASSESSMENT

A comprehensive assessment of customer requirements and compatibility with GSaaS concepts and operations.



DEPLOYMENT SUPPORT

A comprehensive assessment of customer requirements and compatibility with GSaaS concepts and operations.



APPLICATION TAILORING

Tailoring of the software applications and Virtual Network Functions (VNFs) needed to close the link through a GSaaS contact.



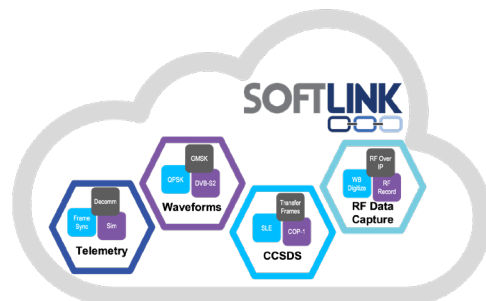
ONBOARDING / INTEGRATION SUPPORT

A comprehensive assessment of customer requirements and compatibility with GSaaS concepts and operations.

THE POWER OF SOFTLINK®

ARKA solutions are built on SOFTLINK®, ARKA's flexible and configurable software-defined architecture. SOFTLINK leverages a vetted library of modular, scalable software applications (Apps) and services to deliver extensible solutions. These solutions adapt to match your mission's unique requirements and evolve to accommodate an everchanging business and space ecosystem.

Contact us to see how we can develop and tailor Apps / services to meet your individual requirements



APPLICATION / SERVICE FUNCTIONALITY

Below is a list of the functionality Apps provide in Azure. Apps can be quickly tailored to extend capabilities.

BASEBAND PROCESSING

- G3RUH
- HDLC
- Randomization/Scrambling
- FEC (Viterbi, RS, LDPC, Turbo, BCH, CRC)

CCSDS

- AoS Transfer Frames
- VCDU/MPDU/BPDU
- Space Packets
- Space Link Extensions (SLE)
- CLTU

TELEMETRY / PAYLOAD

- Frame Synchronization
- Decommuation
- Simulated Streams

TEST

- Channel Emulation
- Noise Injection

COMMANDING

- Binary/Ternary
- Spacing and Timed-Release
- Formatting/Encoding
- Echo Checks

RF DATA CAPTURE / TRANSPORT

- Narrowband Digitization
- Wideband Digitization
- RF Recording
- Digital IF Recording
- RF over IP Transport

WAVEFORMS

OPERATIONAL WAVEFORMS:

- BPSK/PM
 - BPSK/FM
 - BPSK/QPSK
 - FSK
 - FSK/AM
 - GMSK
 - UAQPSK
 - SQPSK/OQPSK
 - Spread Spectrum
- Compatible with most small satellite radios and vehicles

NASA WAVEFORMS:

- C2V2
- TDRS

RANGING:

- ESA, ESA-like Tone Ranging
- CCSDS PRN Ranging

COMMUNICATION / PAYLOAD WAVEFORMS:

- BPSK/QPSK
- 8PSK
- 16APSK
- 32APSK
- DVB-S2

CUSTOM WAVEFORMS:

- Ask about your waveform

If your requirement is not listed here, our team will work with you to implement the needed functionality into one of our existing Apps to connect you to your satellite.



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