



GSaaS SUPPORT SERVICES for Azure Satellite Data Users

GSaaS Assessments

Application Tailoring

Deployment Support

Onboarding/Integration Support

WE ARE THE LINK TO YOUR SATELLITE

AMERGINT is a trusted and innovative partner in the evolution of mission-critical communications. Our solutions enable the satellite links our customers use to communicate with their vital assets around the globe and in space.

OUR GSaaS SUPPORT SERVICES

AMERGINT's Ground Stations as a Service (GSaaS) Support Services for Azure help Azure satellite data users communicate reliably with Azure Orbital or a Microsoft Azure Orbital partner to establish satellite contacts and ensure access to their data. Our services provide:



GSaaS ASSESSMENT

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.



DEPLOYMENT SUPPORT

Software engineering Azure Resource Management template support for deploying GSaaS solutions to the Azure Cloud, leveraging Azure Orbital infrastructure endpoints.



ONBOARDING/INTEGRATION SUPPORT

Supports customers during the satellite onboarding process, including deployment activities, VNF technical asset integration, and satellite link troubleshooting.

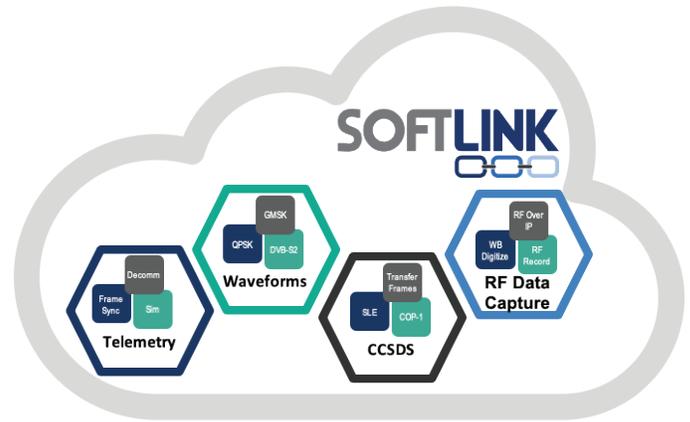
ABOUT AMERGINT

AMERGINT has been delivering satellite mission data processors, network gateways, TT&C Front End Processors, recorders, and modems for more than a decade. For every project, every application, we work with customers to understand their requirements and build a solution that works for them.



THE POWER OF SOFTLINK®

AMERGINT solutions are built upon SOFTLINK®, AMERGINT’s flexible and configurable software-defined architecture. SOFTLINK leverages a vetted library of modular, scalable software applications (called “Apps”) to deliver extensible solutions—solutions that transform to match your mission’s unique requirements and evolve to accommodate an ever-changing business and space ecosystem.



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

APP FUNCTIONALITY

Below is a list of the functionality AMERGINT 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)

Telemetry/Payload

- » Frame Synchronization
- » Decommutation
- » Simulated Streams

Commanding

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

CCSDS

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

RF Data Capture/Transport

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

Test

- » Channel Emulation
- » Noise Injection

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 program has a requirement not listed here, our team can work with you to implement the needed functionality into one of our existing Apps to connect you to your satellite.

WE ARE THE LINK

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