

MANGOSAT

GEOGRAPHY IS NO LONGER A LIMITATION

MANGOSAT CAPABILITY & PERFORMANCE STATEMENT

Part 1: Global Field Services – Reliable, Remote & Rural Connectivity

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**GLOBAL GROUND, FIELD & SUPPORT SERVICES
FOR TELECOM AND SPACE SYSTEMS**

We realize your connection, provide you with connectivity and power, or enable you to access a remote (IoT) network *anywhere* from *everywhere*.

MANGOSAT

**IS AN APPLIED SATELLITE TECHNOLOGY & FIELD SERVICES
SOLUTIONS COMPANY**

...and a bit more

We professionally integrate, implement, and manage game-changing field and ground networks (of any type) to support LEO, MEO, GEO and HEO satellite constellations...*and a bit more.*

MANGOSAT

HAS FULL GLOBAL COVERAGE

We support our customers in every thinkable country

Mangosat teams operate from UAE (Dubai), The Netherlands, India, Austria, and UK. Moreover, we're supported by associated Mangosat Field Service Representatives in 140+ countries.

Plus

Multi skilled, multi-lingual customer support - 24 x 7 helpdesk and support.

Warehousing, demonstration & test facilities in strategic locations.

MANGOSAT

IS REMOVING THE BARRIERS OF LOCATION AND SCALE

Mangosat is FACILITATING the way our international customers want to interact with critical information from remote or underserved locations – *anywhere*.

Through its esteemed partner, Mangosat provides nationwide support to Canada and the USA..

Recently Mangosat has started expanding in Latin America.

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OUR CUSTOMERS COME FIRST

Our customers are satellite operators, global telecommunications companies, multinational organisations and governments seeking to enter the market or expand their existing services into new or challenging territories.

Mangosat adheres to the applicable rules and laws related to good governance and risk management including business processes and SLA that are compliant but also simple, transparent, flexible and work.

MANGOSAT

**IS RELIABILITY, INTEGRITY, COMPLIANCE, EXPERIENCE
and VENDOR AGNOSTIC**

Mangosat represents over 50 years of experience in running businesses and achieving results in emerging markets and uncertain environments.

...and this is why a variety of customers trust us with their reputation and their customers...

Disclaimer: due to the sensitivity of the business and because of confidentiality agreements between Mangosat and her customers, exact customer and end-user details will never be disclosed or shared with other (potential) Mangosat/NWNS customers unless explicit permission has been obtained to do so. Mangosat is very discrete.

MANGOSAT

IS ALWAYS YOUR PARTNER, NEVER YOUR COMPETITOR

Typically, Mangosat does not advertise, promote, sell, or supply satellite capacity and/or (network) equipment. Mangosat however is always willing to assist her clients in sourcing (network) components and services using our locally operating associates.

We work on behalf of our customers.

We represent our customers in the field.

EXECUTIVE SUMMARY

- Mangosat is a customer-centric project management, ground, and field services company with over 35 years global support experience.
- Mangosat is headquartered in The Netherlands and founded in 2013. The company's architecture is flat, basic, and as needed and its financial performance is audited by an independent auditor.
- To realize global coverage, Mangosat has established direct working relationship with contracted associates (aka Field Service Representatives) in more than 120+ different countries.
- Mangosat maintains a 24x7 Helpdesk & Support Service from Pardi (India) and has access to bonded warehouse facilities in Dubai (Free Zone) and The Netherlands.

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EXECUTIVE SUMMARY cont.

- The all-round office, integration and warehouse facility in The Netherlands acts as a main point of contact for Mangosat clients based in Europe and USA. Asian and African customers deal directly with NWNS in Dubai.
- Mangosat has been able to call upon a diverse range of skills and expertise and is geared to provide solutions for telecom – and (sustainable) power infrastructure deployment globally.
- Everything related to satellite communications (VSAT etc.) is our speciality. Narrow Band (NB) IoT sensor networks one of our fast-growing additional businesses.
- Supporting customer networks in remote and harsh locations is our key differentiator.

Mangosat customers have unique requirements. Therefore, our services are **TAILOR-MADE TOTAL SOLUTIONS** implemented and maintained on behalf of our customer.

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WE SUPPORT

- **LEO, MEO, GEO and HEO space technology on the ground (field services).**
- *But also, modern terrestrial LoRa, and old school HF, VHF and UHF radio networks.*
- *And off-grid (hybrid) power (back-up) systems including battery banks, gensets and smart load balancing management (microgrids).*
- *And we also arrange for - and implement - last-mile connectivity (restrictions apply).*
- *And we are experienced with global high-volume projects.*
- *And we support our customers in every thinkable country. Geography is no longer a limitation.*

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WE PROVIDE

- **PROFESSIONAL & MARKET ACCESS SUPPORT:** Customer sales support, network design, regulatory support, importation assistance, etc.
- **GLOBAL FIELD SERVICES** using local support where possible: Installation & maintenance of satellite, VSAT, and microgrid (power) equipment and more.
- **PROFESSIONAL RFI SUPPORT:** Surveying, tracing, analyzing and mitigation of RF interference.
- **LAST-MILE CONNECTIVITY:** Sourcing and managing terrestrial connectivity for remote locations.
- **REMOTE IoT NETWORK SPECIFICATION AND DESIGN ASSISTANCE:** the process that covers all the requirements, constraints and specifications that a (new) remote IoT network must adhere to.

MANGOSAT

WE PROVIDE cont.

- **GLOBAL (ANTENNA) CO-LOCATION SUPPORT:** Hosting location sourcing, vetting, contracting (on behalf of customer), facilitation, and even its management if required.
- **24X7 CUSTOMER SERVICE AND HELPDESK SUPPORT:** At Mangosat we understand that nobody wants to be chasing the progress of new orders. We give you:
 - Visibility on project progress and engineer tracking.
 - Access to our portal which we will update on a regular basis.
 - Provide you with your own branded jobsheets which will be sent in real time as the job is completed.

MANGOSAT

**GIVES YOU THE SKILLS, EXPERIENCE, AND RESOURCES YOU NEED
TO GET THE OUTCOMES YOU WANT**

Whenever your business implementation is critical or in places you don't feel comfortable doing it yourself....

Mangosat is in business to fill the gap. Mangosat always delivers. We never give up.



MANGOSAT

**WE GO THE EXTRA MILE UNTIL
WE REACH THE LAST MILE**

Ensuring an exceptional customer
experience every time.

MANGOSAT

**AND WHEN SOMETHING IS
IMPORTANT, WE DO IT**

Even if the odds are not in our favor.





MANGOSAT SERVICES & SOLUTIONS SUMMARY

Ground Systems & Field Support



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(SATELLITE) GROUND SYSTEMS & FIELD SUPPORT

Mangosat Services & Solutions Summary

- Mangosat supports both classical C, X, ku, and Ka band GEO VSAT stations and modern LEO, MEO and HEO terminals.
- Site survey, installation and maintenance according to customer's specs and SLA.
- Mangosat can arrange for - and manage any civil works *if* required.
- Mangosat can design and implement reliable (back-up) power *if* required.
- Mangosat can provide license and permission application support (restrictions apply).
- Mangosat can provide equipment importation assistance (restrictions apply).

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SATELLITE GROUND SYSTEMS

Mangosat Services & Solutions Summary

We understand that projects can pose unique challenges with regard to the end users requirements.

At the same time reliability and performance are of utmost importance and installation often has to be carried out within very tight timescales.

At Mangosat we address these challenges by only using well trained (local) technicians to install and maintain the required solution using higher grade materials as standard.





WE SUPPORT: CLASSICAL VSAT SYSTEMS

Site survey, installation and
maintenance according to
customer's specs and SLA.

Mangosat / NWNS is co-founder of the
GVF Training Program



WE SUPPORT:

**LEO, MEO and HEO SATELLITE
TERMINALS**

Site survey, installation and
maintenance according to
customer's specs and SLA.



WE SUPPORT:

BIG EARTH STATIONS

Preparation, installation and maintenance according to customer's specs and SLA.

WE SUPPORT:

**GROUND STATION, GATEWAY
AND CO-LOCATION
“SOURCING AS A SERVICE”**

Location sourcing, contracting,
installation and maintenance
according to customer's specs.



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GATEWAY AND CO-LOCATION FACILITATION

Frequency and Spectrum Monitoring as a Service

Antenna hosting, equipment co-location and infrastructure sourcing on customer's behalf according to customer's specification.

Mangosat together with its local affiliates, we do the sourcing, vetting, contracting, implementation and whatever more it takes on behalf of the customer.

- Customer can supply its own equipment.
- Customer can own all the contracts and agreements.



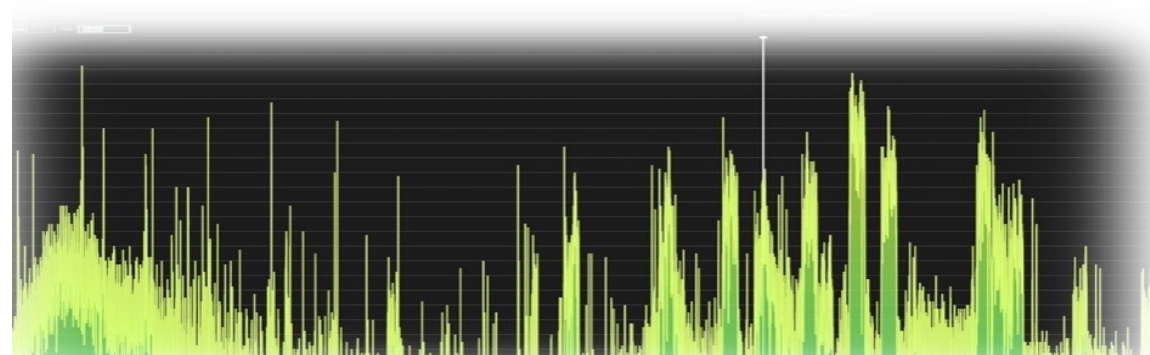
RF INTERFERENCE & RADIATION ANALYSIS

Tracing, analysing, eliminating or
mitigating.

INTERFERENCE AND RADIATION ANALYSES

Identifying and defining disturbing RF interference requires skills, patience, equipment and lots of experience.

Mangosat has the skills and the equipment to analyse, trace, monitor, mitigate or even fix most of the problems related to terrestrial interference.



WE SUPPORT:

REMOTE POWER GUARANTEE

Microgrids and power back-up systems: design, implementation & maintenance.



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REMOTE POWER GUARANTEE

Microgrids and backup. Electrical power where and as needed

Unreliable power means not very stable power

Mangosat has extensive experience in designing, testing, and delivering reliable high performance off-grid standalone hybrid power solutions in (very) remote locations.

Allow Mangosat to professionally engineer, propose and implement you an electrical power solution that works and lasts. After implementation you will be able to continue monitoring performance, even in location without access to Internet.





WE SUPPORT:

RURAL CONNECTIVITY

Last-mile connectivity to the local terrestrial network using 3G/4G, fiber, cable or radiolinks.



LAST MILE CONNECTIVITY SERVICES

In many countries or (remote) areas connectivity is still either unavailable, intermittent, restricted, or slow at its very best. This could be a problem. Another problem could be local provider customer service and subscription restrictions.

At Mangosat we understand the local situation and our customer requirements, and we provide a matching - worry free - “Last Mile Connectivity Service” to businesses operating internationally.



WE SUPPORT:

REMOTE SENSOR NETWORKS (IoT)

Providing reliable and affordable
access to data acquisition anywhere.



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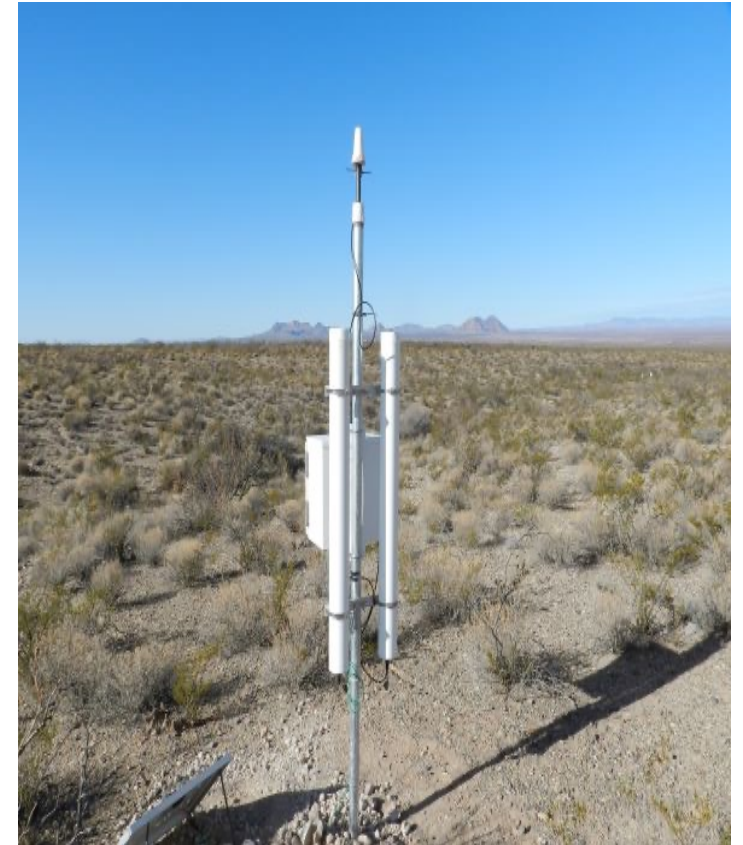
REMOTE SUPERVISORY CONTROL & DATA ACQUISITION

Sensors and Connectivity

Mangosat customers should not have to worry about technology e.g. using satellite, cellular, or any alternative connectivity network.

Customer's decision should only be "what do we need and do we want reliable data collection and connectivity or not".

We design and implement data acquisition systems that enable our customers to reach parts of the world that were previously unconnected or impossible to connect.





WE PROVIDE:

**PROFESSIONAL SERVICES AND
MARKET ACCESS SUPPORT**

**Mangosat as extension of your
organisation.**



PROFESSIONAL SERVICES & MARKET ACCESS SUPPORT

Do you have difficulty accessing certain markets due to known and/or unnoticed constraints?

If yes, then take advantage of our international reputation and our almost 35 years of experience as a global, independent field services organisation.

Unlike an “ordinary” consultant, who may only be responsible for providing advice, Mangosat Professional Services can be held responsibility for the end result. This allows our clients to focus on their core business concerns while we manage a specific part of their business.

Mangosat helps you to achieve profitable growth at a fraction of traditional costs.



A good understanding will help you making the right decisions for your business. Let's talk - try us out, no obligations, no spamming, no hidden traps.

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