Trac Networks

Presentation of TracSat

Challenge

Offshore and remote operations are undertaken in areas with limited - or even no local telecommunication infrastructure.

However, these remote operations require reliable connections to both their HQ-premises and the Internet
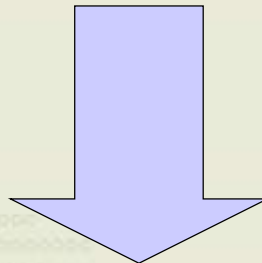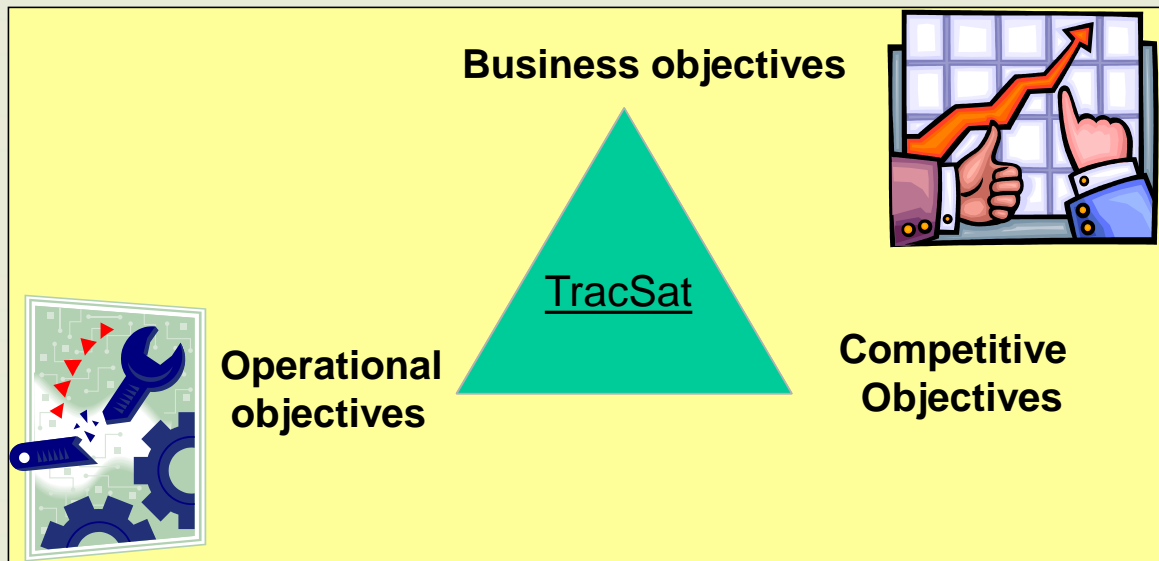
Solution

➔ *TracSat*

- Provides Telecom-services independent of local infrastructure.

- *TracSat* is a completely self-contained system providing IP-based services for both voice and data – into any remote location be offshore or onshore

www.trac-id.com

Objectives

- Why communication to remote sites-?

Business objectives

TracSat

Operational objectives

Competitive Objectives

System design
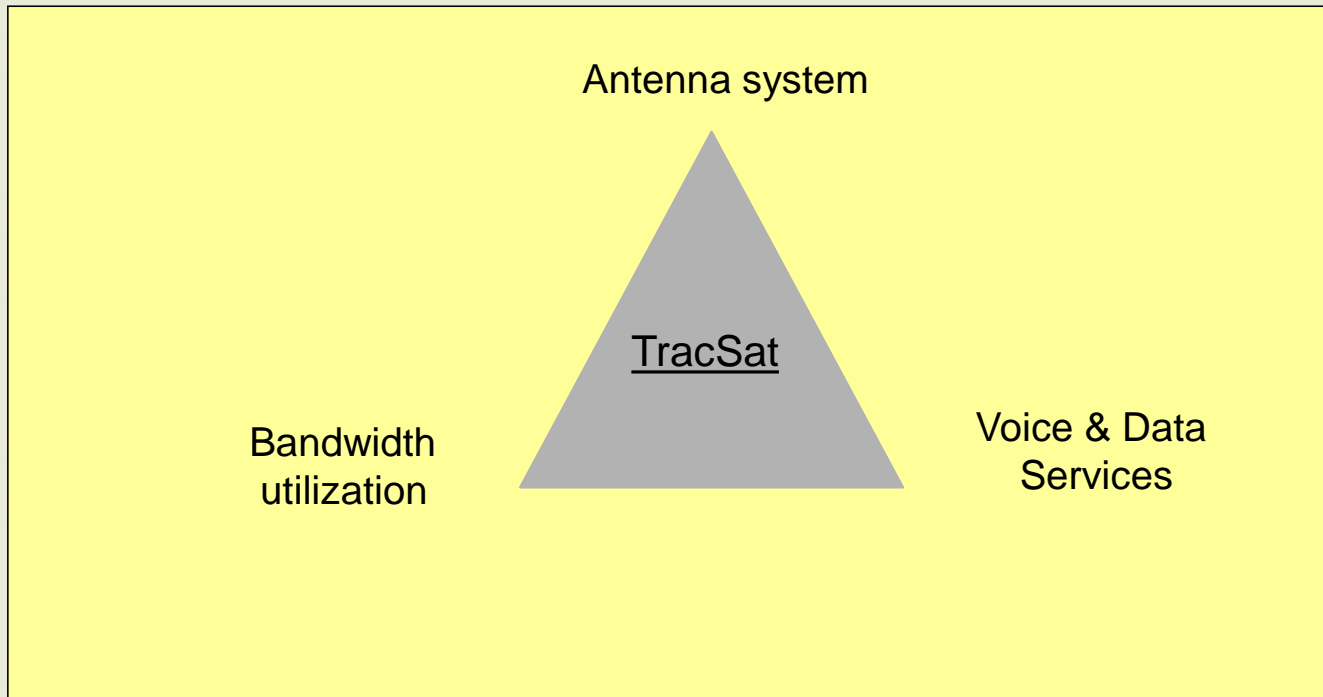
TracSat
- Highlights

- Easy to deploy and operate – wide coverage area

- Access to company applications from remote sites

- Pre-packed and pre-configured solution, ready to deploy

- E-mail, Internet access and voice service

- Prepared for Remote Management

TracSat

System performance

Antenna system

TracSat

Bandwidth
utilization

Voice & Data
Services

TracSat
- Why better ?

System design

- Antenna solution – designed to perform

- Special system design for long delay / low bandwidth link

- Satellite bandwidth utilization

- Transmission and <u>application</u> parameters pre-configured

- Toll quality voice

- Voice / Internet connections from stable terrestrial network

Super!

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TracSat

Deployment challenges

- Local <u>regulations</u> for satellite systems

  ➔ To be addressed at an early stage

- Satellite <u>coverage</u>

  ➔ Define actual telecom services

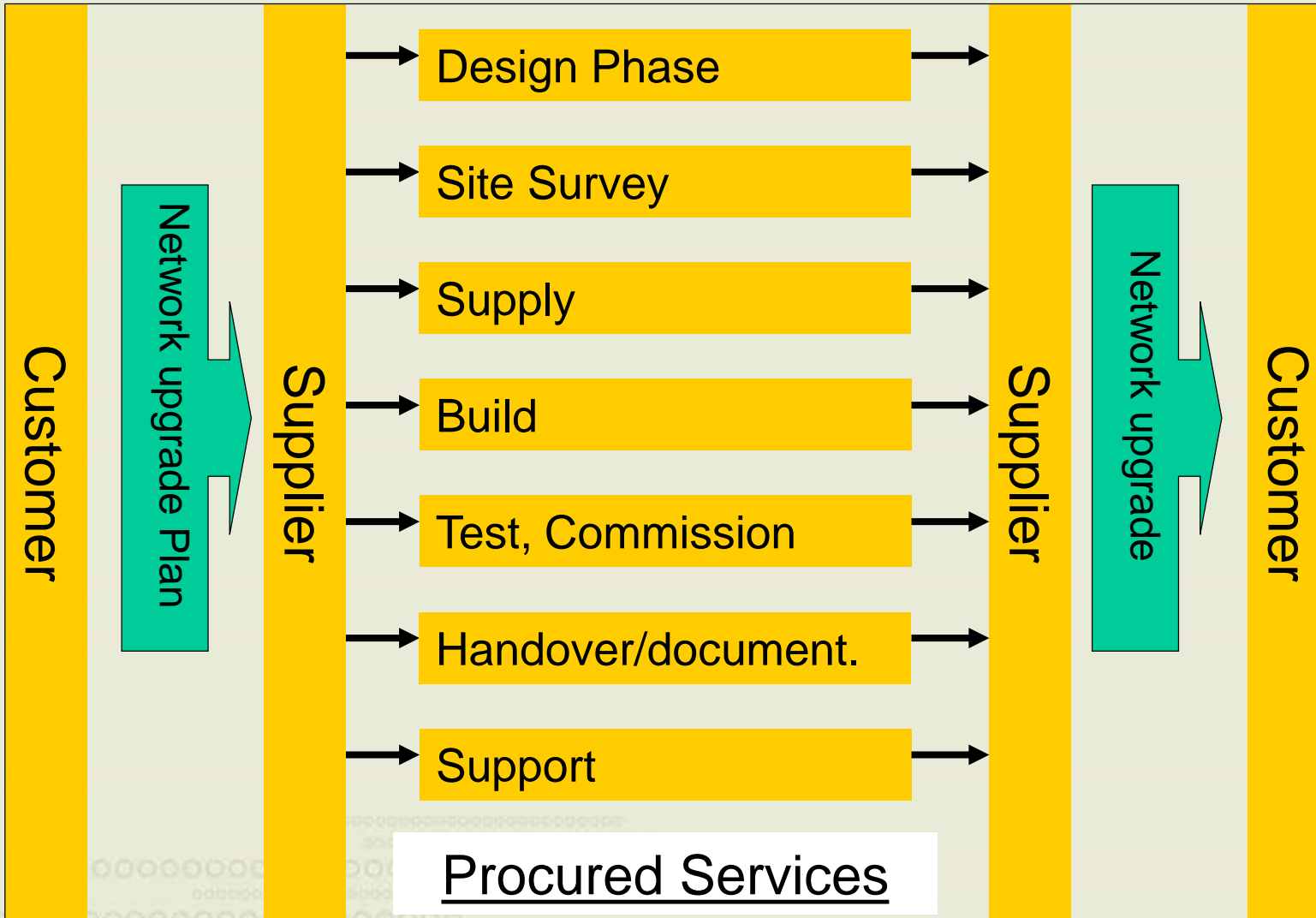- <u>Integration</u> into company's IT-Systems

  ➔ "Live" satellite test at home
  (prior to deploying equipment)

- <u>Planning</u> is the key to success – as usual…

TracSat - Project Activities

Customer → Network upgrade Plan → Supplier

- Design Phase
- Site Survey
- Supply
- Build
- Test, Commission
- Handover/document.
- Support

Supplier → Network upgrade → Customer

Procured Services

TracSat - Antenna System Options

- *Manual antenna* – the ultimate low cost option

- *One-Button auto-acquisition antenna* – for the convenience

- *Stabilized platform* – the ultimative automatic antenna for Offshore Installations and production wessels / ships
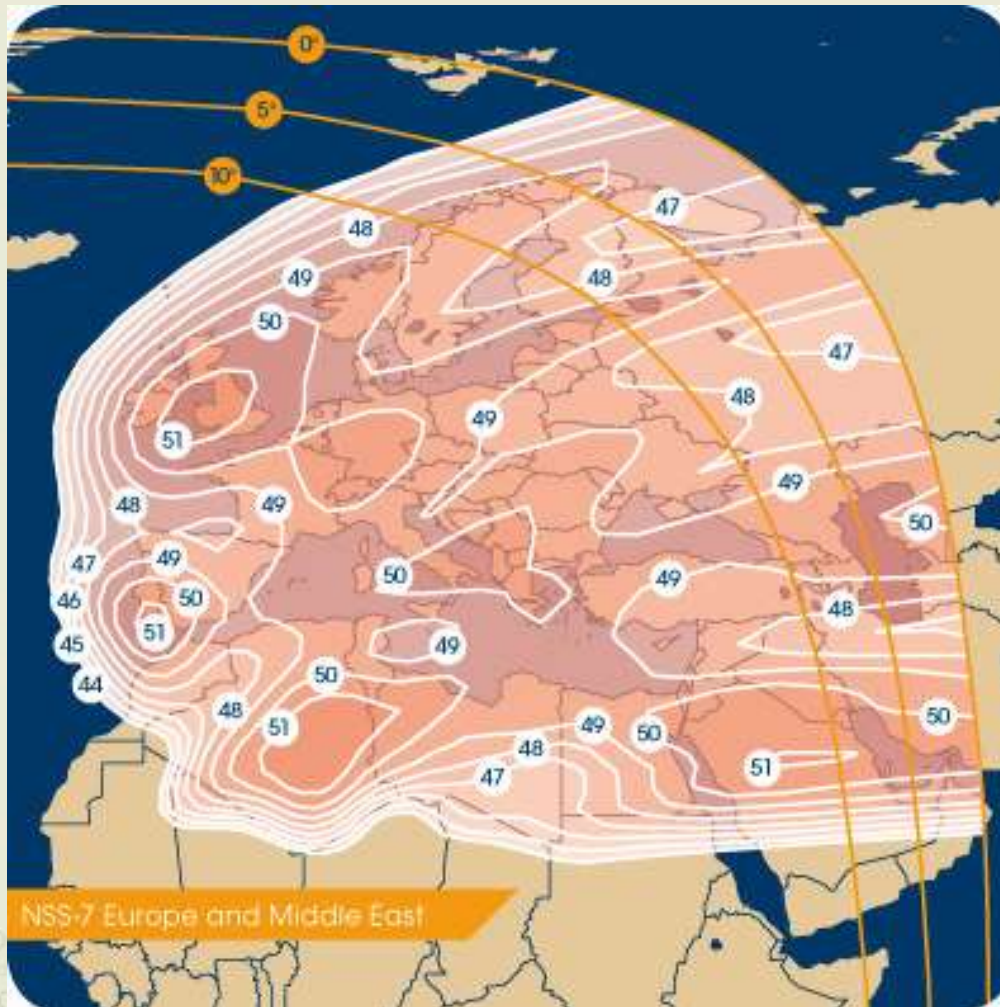

Manual

Automatic

Stabilized

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Coverage area - example

Newskies NSS-7@338deg.E (Ku-Band)

NSS-7 Europe and Middle East

Hub: Jacksonville, Florida
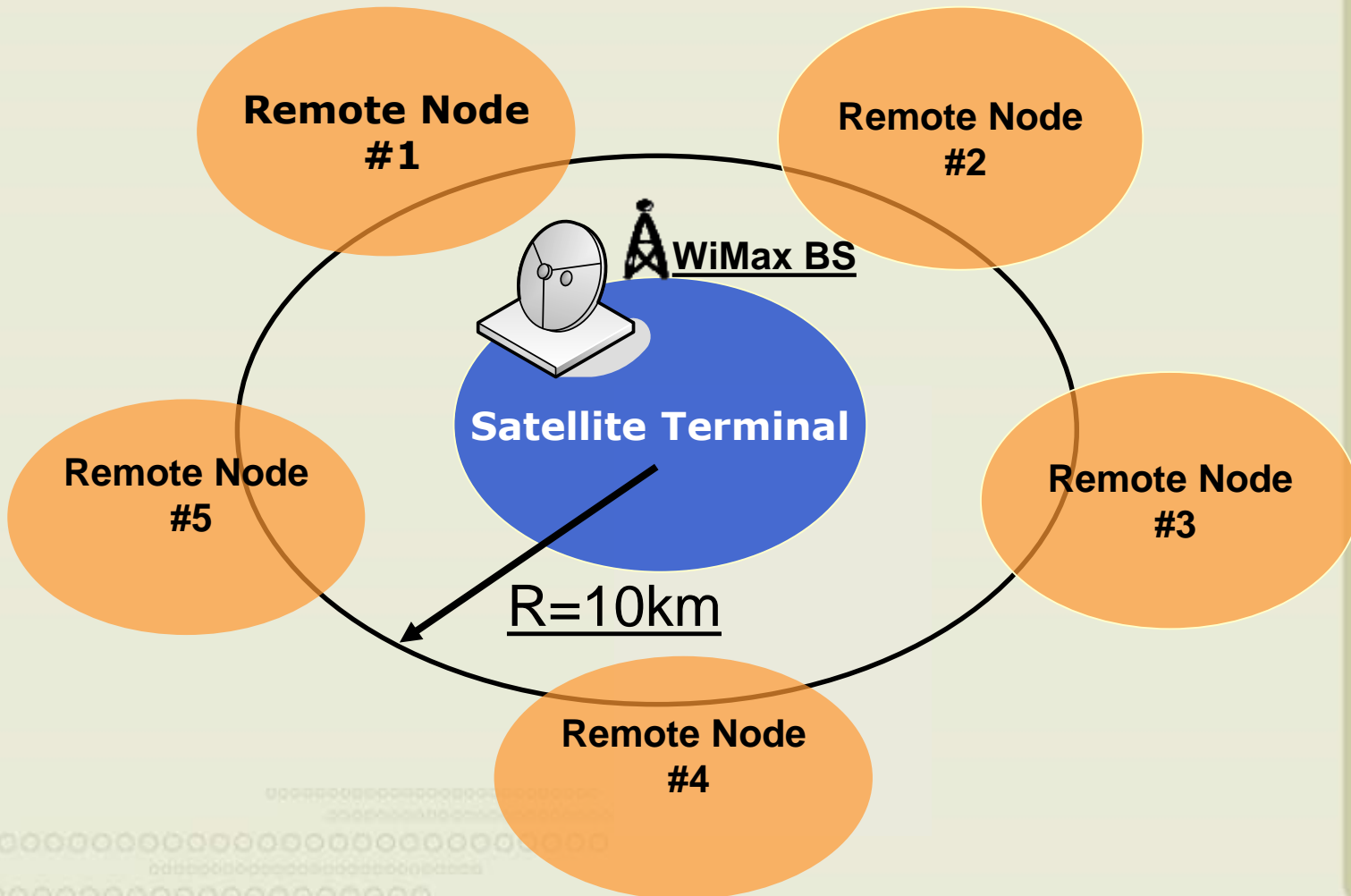
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TracSat
- Features

- Easy to deploy and operate – no expert is required

- All services provided are *independant* of local infrastructure

- The satellite dish antenna may have automatic pointing

- Internet & voice service from reliable backbone network

- An UPS is isolating sensitive equipment from the mains

TracSat – Remote Site
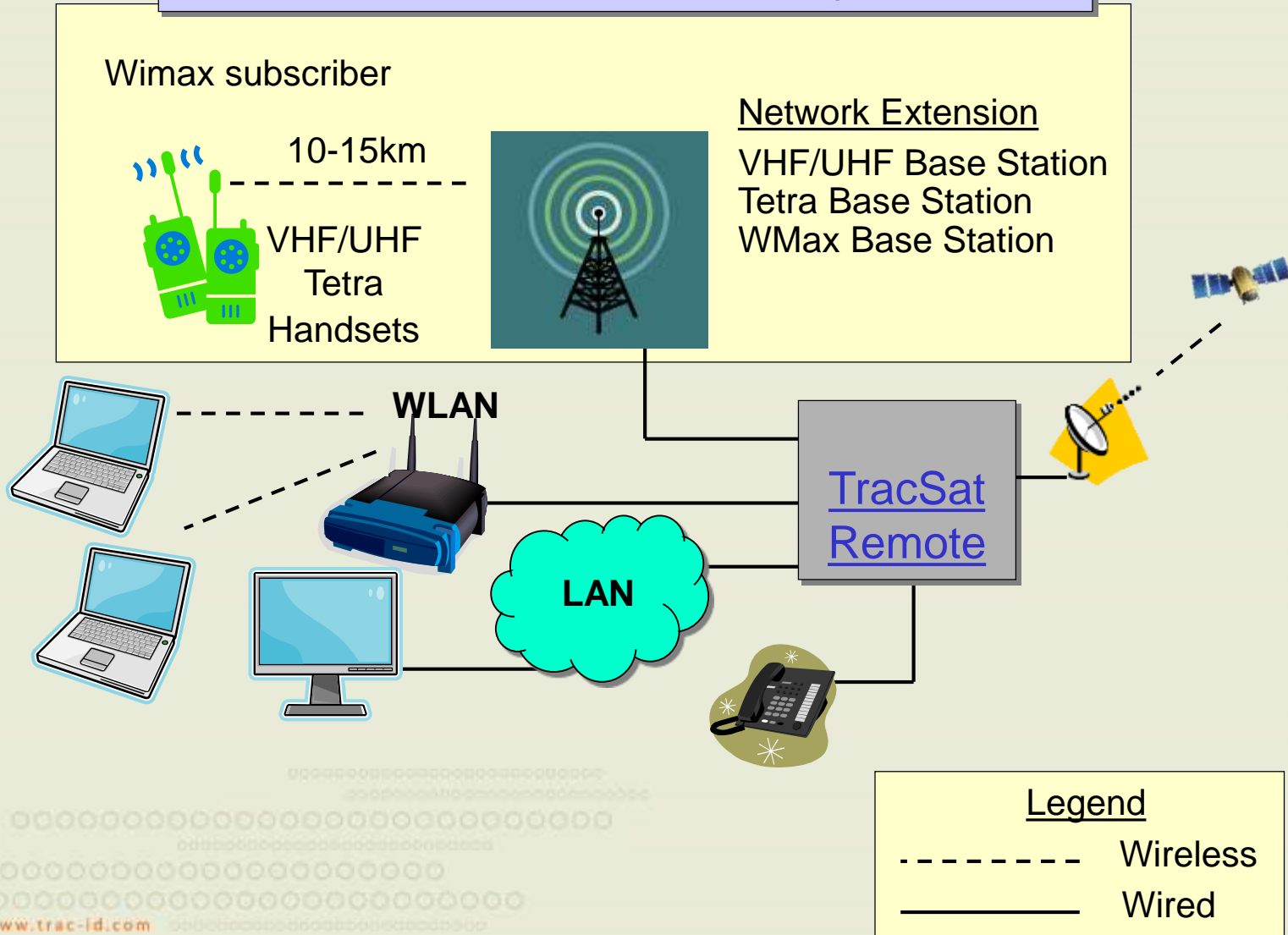
Wimax subscriber

10-15km

VHF/UHF
Tetra
Handsets

Network Extension

VHF/UHF Base Station
Tetra Base Station
WMax Base Station

WLAN

TracSat
Remote

LAN

Legend

- - - - - - - -   Wireless

_____   Wired

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