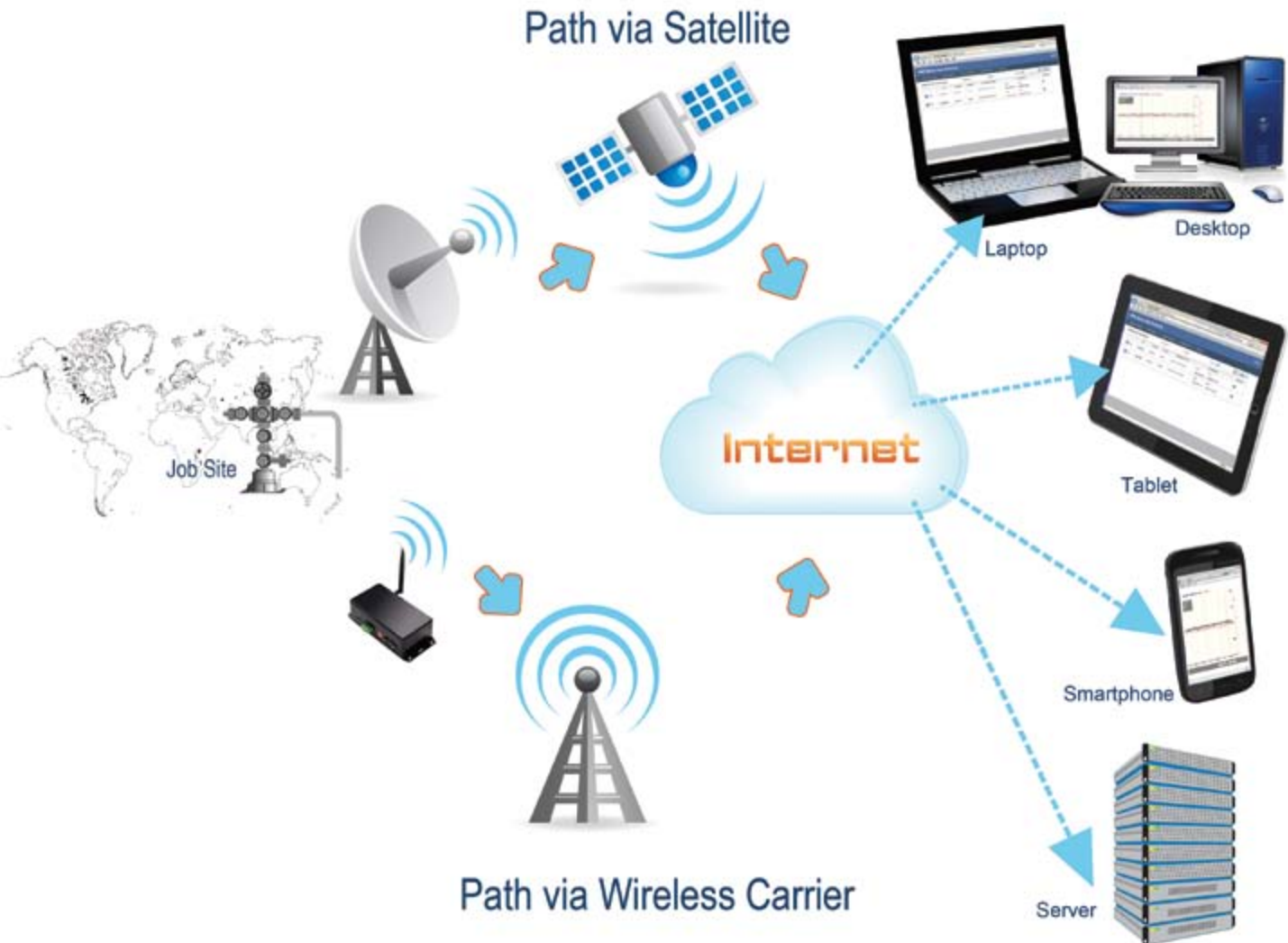


## SmartGate Remote Data Monitoring System

At the job site a surface unit with a wireless internet gateway is setup to communicate with SDAUs or surface loggers. When the initial communication link is made in SmartGate's web-based platform, each tool is given a Device ID number for easy identification. Data from the tools is stored in the SDAU's or logger's memory and will also be received and stored on secured servers at the PPS headquarters in Calgary, designated solely for PPS clients.

The **SmartGate System** is capable of sending alert emails and text messages to registered users, if the data received from the tools moves outside of the acceptable alarm parameters created on setup. Users can also change the alarm settings and sampling rates of the connected devices, if changes need to be made to ensure optimum operations. This gives client's peace of mind knowing their job site is being monitored day and night.



## SmartGate Remote Data Monitoring System



### Cellular Interface

Standards	GSM/GPRS
Band Options	Quad-band 850/900 and 1800/1900 MHz
GPRS Multi-slot Class	Class 10
GPRS Terminal Device Class	Class B
GPRS Coding Schemes	CS1 to CS4
Tx Power	1 watt GSM 1800/1900, 2 watts EGSM 850/900

### SIM Interface

Number of SIMs	One
SIM Control	3 V

### Serial Interface

Number of Ports	One
Serial Standards	RS-232/422/485 port
ESD Protection	15 KV
Power EFT/Surge Protection	2 KV

### Serial Communication

Parity	None, Even, Odd, Space, Mark
Data Bits	5, 6, 7, 8
Stop Bit(s)	1, 1.5, 2 (when parity = None)
Baudrate	50 bps to 921.6 Kbps

### Environmental Limits

Operating Temperature	-30 °C to 55 °C (-22 °F to 131 °F)
Operating Humidity	5 to 95% RH
Storage Temperature	-40 °C to 75 °C (-40 °F to 167 °F)
EMC	CE Class A , FCC Class A, UL

### Features:

- 24-hour access to real time data.
- Innovative solution to the acquisition, delivery, and access of real time data.
- Compatible with the PPS33 LR (Long Range) Multi-Sensor Wireless Systems
- Compatible with PPS27 Permanent Downhole Monitoring Systems

