



Tele-Terminal



The Tele-terminal is a remote data collection solution for rural sectors. It enables data centers to collect data from remote rural sites using M2M communication. Thousands of those terminals can post data to a central data base server that can be controlled using web pages from anywhere in the world.

Application:

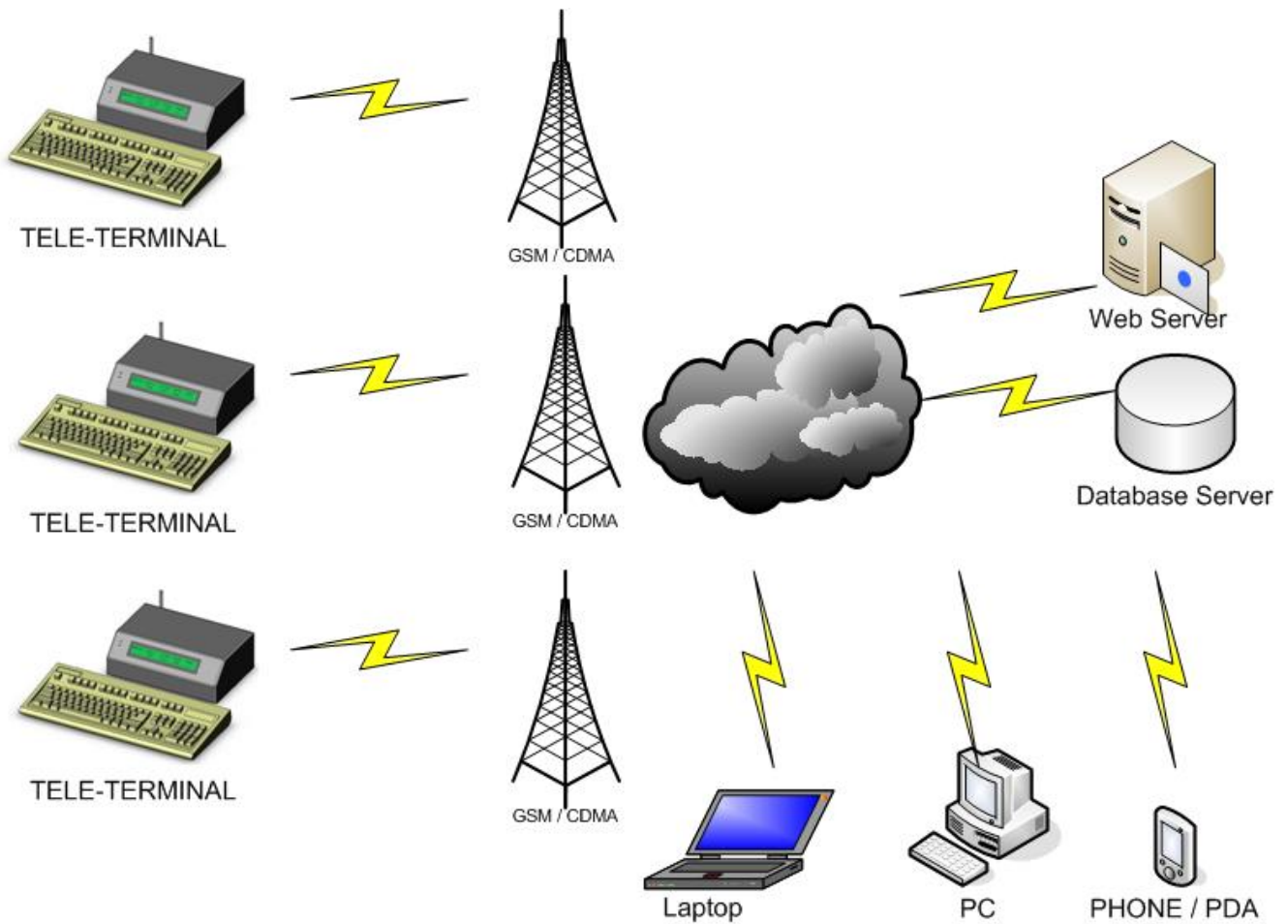
Meteorological Data Centers

Population Census

Irrigational Data Centers

Data Collection for Non Government Organizations

Here is how the system works



1. The parameters that are required for the data center is first entered in the web server using any computer connected to the internet.
2. The Tele-terminals when turned on gets automatically updated from the web server, will now prompt the data collector to enter the parameters asked for.
3. The parameters entered by the different Tele-terminal users are all posted in the central data base server.
4. The data from the database server can be used from anywhere in the world.
5. The web server can be programmed to generate automatic reports (with graphics and charts) on web pages.
6. The web server can also be programmed to generate alarms and notifications via emails, SMS, IVR etc.



Features of the Tele-Terminal:

- The Tele-Terminal uses a 32 –Bit ARM processor as its main processor.
- It has an internal Real Time Clock that is automatically synchronized by an internet time server.
- The system uses either GSM or CDMA for transmitting the data.
- The system has internal backup memory that stores all the data until a successful communication occurs.
- It uses a two Line LCD screen with backlight for comfortable viewing.
- The Tele-terminal is designed to use the least power. Can be used with solar cells for sites without electricity.
- The data collection is fully automated, data posted from Tele-terminal units are automatically posted systematically in a database server.

The benefits of using a Tele-Terminal

- The data collection is in real time. No physical carrying of the data is required.
- 30% to 80% saving in man-hour due to automated data posting directly in the database server.
- The Tele-terminal is less prone to mistakes compared to using voice communication.
- The Tele-terminal is light weight and easy to carry around.
- The Tele-terminal can also be used with solar cells, so can easily be deployed in places with no electricity.
- Unlike a PC , the system is far easy to use, minimum training required for implementation.
- The Tele-terminal uses a general PC keyboard for data entry. The PC keyboard is readily available and is very cheap.
- Since data is directly posted in a central server, no risk of losing the data during storage and transportation.



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