



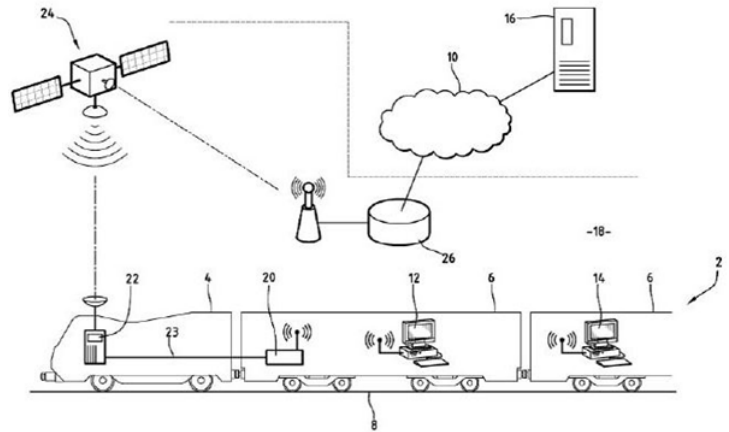
PROCESS FOR MEASURING IP NETWORK AND RELATED SYSTEM PERFORMANCE

LAPSUS: Performance analysis lab for user ground stations and services. LAPSUS is a multi-standard solution (IP, GSM, Wifi, UMTS and satellite).

Technological advantages

Assesses the network:

- In a simple, representative manner (actual session based on traffic generation according to various user profiles)
- Requires a single PC
- In real time, i.e. at any time during its operation
- On a mobile section, as the data can be computed by equipping the terminal with a GPS positioning system in order to know the vehicle's instantaneous position and speed



Measurement of QoE/QoS on satellite Internet service in TGV East

Summary of the invention

LAPSUS is a test software whose execution on a user terminal (e.g. a PC) allows launching of a process for measuring network performance at application level (connection, response and transfer times, connection loss rate, etc.). Execution of the test software is designed to reproduce as faithfully as possible at least one, and preferably several, Internet user sessions while computing the values of each query making up the sessions in real time.

Potential applications

Tests and measurements :

- for implementing mobile Internet networks (trains, boats, planes, etc.).
- for implementing Internet networks in remote areas
- Internet service provider comparisons and assessment of telecom services or satellite and/or terrestrial Internet services

TRL : 9

Patented invention available under licence

Commercial advantages

- Highly QoE-oriented approach with possibility of generating complex and multi-user profile campaigns
- Can integrate a large number of fixed and mobile usage situations
- Executable system can be installed on a laptop
- Can fine-tune results by coupling with GPS function
- System capable of integrating the "satellite" link