Presentation:
A maintenance system has been installed three years ago in Morocco. It consists in the following parts:
• Built In Test Equipment (BITE) installed inside every radar;
• A set of processes running on every radar to communicate with the BITE and generate events and reacts according to programmed scenarios;
• A server installed at the central site and connected the LAN that links all the radars.

Main functionalities:
This system watches permanently all the radars and computers over the network and ensures many functions among which:
- All the received events are saved in a database that allows to extract parameters related to maintenance (MTBF, ...);
- The system generates alerts that can be sent by emails, SMS and Live Messenger to the concerned managers;
- The system allows access to deep radar resources, allowing performing many remote maintenance actions. This helps a lot the maintenance staff;
- A part of the software is installed on a Laptop that can be connected to the radar interfaces, allowing to perform local maintenance, and to write reports that can be transmitted to the central system.

Extra functionalities:
The system provides an easy interface for maintenance management:
- Preventive maintenance schedules, Maintenance reports management (writing, collection, display, printing, organization, ...). Reports sheet that can be written on every site and transmitted in real time to the centralized system.
- Reports management tools that allows to generate maintenance report and transmit it in real time to the server for broadcast and archives.
- Spare parts management;
- Maintenance tools management;
- Remote access to the radar for diagnosis;
- The system can communicate through network, GSM and 3G / 3G+ internet connections.

This system is in operation in our radar network and is very helpful for our maintenance staff.