

Remote access of SCADA with online video streaming

Abstract

Owners of industries traveling around the world need some system from where they can monitor and keep control of their industry remotely. Speedily advancing software technologies have made it possible to develop a new generation of Supervisory Control and Data-Acquisition (SCADA) system. This generation of SCADA is known as PROPOSED SCADA SYSTEMS. This paper present a concept of how industrial and commercial areas can be monitored and controlled via SCADA system from anywhere in the world on supported portable devices. Through Remote access of SCADA, the Remote Desktop Protocol (RDP) brings SCADA real-time and passes information to users. The presented solution provides reduced software costs while improving reliability. The system also allows Open Process Control (OPC) linkage between the controller and SCADA systems. An additional monitoring approach in this system is IP CAMERAS based online visual monitoring. Life videos of the industry and commercial area can be viewed from anywhere in the globe on the portable devices. The proposed concept is simulated on two prototype industrial plants 1) An automated Car Wash System and 2) Load Cell based luggage segregation. Proposed system was tested on simulator and show remarkable results.

Keywords — Industrial process, IP cameras, PLC, remote access, SCADA