

## Case Study: ICCP to IEC 60870-5-104 Protocol Gateway (KSGL/P)

**Provider Name** : KALKI Communication Technologies (P) Ltd.

**Client Name** : European Automation Major

**Project Title** : ICCP / IEC 60870-5-104 Protocol Gateway

### **The Problem**

The client, a Major OEM in the RTU and SCADA space, required to provide ICCP connectivity to a control center which support ICCP protocol and their SCADA System which supports IEC 60870-5-104 Protocol. The Kalki Sub-Station Gateway Lite / P was used to achieve this requirement.

### **The Solution**

The stated solution consisted of the following:

1. KSGL/P Protocol Gateway with 3 RS-232, 1 RS-485 and 2 Ethernet port.
2. EasyConnect Configuration Tool
3. OEM SCADA Software
4. OEM RTU
5. IEC 60870-5-104 Protocol Test Tool

The said OEM SCADA System was connected to the KSGL/P protocol converter over IEC 60870-5-104 protocol and the remote control center was connected on ICCP. The ICCP Blocks 1,2,4 and 5 were supported on the gateway and were suitably configured.

### **Tools Used:**

- Microsoft C Compiler
- Embedded Processor Development and Debugging Environment
- Test Harness IEC 60870-5-104 Test Simulator
- VC++ based Configuration Utility