ICCP Bridge Using SYNC 4000

Application Note

Application Description

Inter Control Center Protocol (ICCP) allows for data exchange over Wide Area Networks (WANs) between utility control center and other control center, other utilities, power pools, regional control center and non utility generators. Data exchange information consists of real-time and historical power system monitoring and control data, including measured values, scheduling data. This data exchange occurs between one control center SCADA/EMS host and another center host, often through one or more intervening communications processors.

ICCP Bridges are the intervening communication processors that take care of handling the communication between both control centers. Control center may be using other standard protocols like IEC 60870-104 or ICCP with an older TASE.2 version that may not be compatible with other control center software. In this scenario, the ICCP Bridge will take care of the communication with the local control center and convert the data in the format required for the other control center.

Features

- Communication of two control center having ICCP and other standard protocol
- Communication of two control center having two different ICCP TASE.2 versions

Products Used

- SYNC 4000 with generic protocol conversion engine

Advantages

- SYNC 4000 with embedded real time kernel allows transfer of huge amount of data from one control center to another on a real time basis
- Complex inters connectivity of control center SCADA having multiple different protocols makes easy using SYNC 4000

Figure 1: Application Highlight of ICCP