Software Protection on Smart Meter in Smart Grid Network

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Abstract:

Smart grid can be considered as the next generation power supply network in which besides the traditional power transmissions architecture. In particular, a smart meter is installed at each customer's premise. This smart meter possesses the basic function of a traditional kWh meter for recording the energy consumed by a customer. Smart meter is located at customer's premise and it is difficult for the power operator to keep an eye on it from time to time. Also it is usually inexpensive in terms of production cost and so its memory and processing power are usually too low for running complicated protective measures. This attracts attackers to hack its stored data or even modify its logic. As such, smart meters become the most vulnerable part in the smart grid.

About the Speaker:

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