

عنوان مقاله:

Using New Generations of Cellular Network in SCADA systems and Dispatching Centers

محل انتشار:

اولین کنفرانس بین المللی دستاوردهای نوین پژوهشی در مهندسی برق و کامپیوتر (سال: 1395)

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خلاصه مقاله:

In this paper, a solution is introduced for the communication of protection systems in electrical substations with dispatching centers, aiming to resolve current existing problems in the telecommunications platforms in power systems by means of taking use of new generations of cellular communication, the third and the fourth. In many areas, however, there is probably no acceptable access to cellular communications networks. Thus, a solution named DOC, is presented, being able to be implemented on all new and existing generations of cellular communication, featuring a reliable, secure and rather fast communication platform for data transfer. The presented solutions are in accordance with dire needs of electricity distribution centers and can therefore be efficiently implemented with minimum alterations in the hardware configuration.

کلمات کلیدی:

Power Protection; Relays; Communication System; SCADA; New Generation of Telecommunication; TD LTE; DOC1; Smart Grid

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