Draft revised Recommendation ITU-T K.21

**Resistibility of telecommunication equipment installed in   
customer premises to overvoltages and overcurrents**

Summary

Recommendation ITU-T K.21 specifies resistibility requirements and test procedures for telecommunication equipment that is attached to or installed within a customer's premises.

Overvoltages or overcurrents covered by this Recommendation include surges due to lightning on or near the line plant, short-term induction from adjacent alternating current (a.c.) power lines or railway systems, earth potential rise due to power faults, direct contact between telecommunication lines and power lines, and electrostatic discharges (ESDs). The sources for overvoltages in internal lines are mainly inductive coupling caused by lightning currents being conducted in nearby lightning strikes or lightning currents being conducted by nearby conductors.

Changes compared with Recommendation ITU-T K.21 (2017) include:

• external Ethernet power contact test;  
• renaming of some test titles for clarity;  
• Intermediate Ethernet test level added.

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