

### **EN 50463-1**

*Scope, general architecture, document structure, normative references, general requirements*

### **EN 50463-2**

*The measurement chain from the sensors/transducersv attached to the voltage and current coming from the headlines up to the metering unit and relative interfaces are specified*

### **EN 50463-3**

*Input/output handling and memory management unit. The input/output interfaces and their use are specified. The energy data samples are stored in the memory together with the other data necessary for the billing and saving purposes.*

## **EN 50463**

### **EN 50463-4**

Specification of the on-board communication subsystem, ground station requirements limited to right data transfer from train to ground, communication protocols, application profiles

### **EN 50463-5**

Specification of the test procedures to be used for assessing the conformance and the interoperability of the implementation under test