

EOS – End Of Service

Sometimes a certain service is used up before the end of the month. When the customer wants to use this service again, the system signalizes EOS (End of Service) - which means this service is not available until the end of the current month.

In this application the EOS can be detected during service recording - that is, before saving the SDR. In the commercial applications service detail records are managed and stored by the system; here, in this demo, an admin user manages these records. Whenever we want to save a SDR, the EOS check is called. When a resource is used up and a service is abruptly terminated, this is reflected in the SDR input data - the software modifies them before inserting them into the database:

- for calls, the service is interrupted when total duration is reached; the end time is then adjusted to an appropriate value that fits into the total input duration.
- for sms, the service is interrupted when a customer wants to send another message above the total number of sms messages; the message will not be sent.

- for internet, the service is interrupted when the total input amount in MB for internet is reached; the input data for the MB amount is corrected to the appropriate value that fits into the total input amount; the second correction is for end time - this is reduced to half the duration of the input time; it is taken only for demo purposes, because internet consumption - MB/s is not constant and we cannot calculate the exact time completion.
- for social media and applications - similarly to internet service.
- for international calls, the service is interrupted when the total input amount (in currency unit, cu) is reached; the total output amount depends not only on the call duration, but also on the zones.
- for roaming calls - similarly to international calls.

In all these cases EOS note is set in the SDR record.

Nowadays, some of the services are unlimited for advanced users. In this demo application, the packages "13" and "14" have unlimited access to calls and sms services, and package "14" has unlimited access to the internet. This means that EOS is not applied in these cases.