

v1.21_

- Wi-fi ();
- : Microsoft Excel, Libre office Calc, Open office Calc;
- : UTF8;
- : (:);
- ;

- ;
- : [0-9]{4}-[0-9]{5}, ;
- .

(SSID)

- Enterprise network ();
- Guest network (hotspot,);
- Equipment network (: , ..);

. [common] .

- MAC avg - () ;
- MAC max - ;
- Input avg (MB) - , ;
- Output avg (MB) - , ;
- Input sum (MB) - , ;
- Output sum (MB) - , ;

(), 'CMS order', 'RegionId', 'Region', 'City', CMS. , , . [common] .

- CMS order
- ID
-
-
-

MAC 'export_ap_data' [common]. "" 'export_cms_data'.

- MAC list

radius.radacct (,).

():

- Hotspot (ssidtype=0)
- Enterprise (ssidtype=1)
- Equipment (ssidtype=2)

. . — . — .

— : SBERBANK_DOMAIN = '%.Ap.root' :

- [common] 'domain';
- 1234-12345. [common] 'vsp_mode' 'sber' 'any' ();

, .

, , , 0.3% (2020 .)

SSID (acctssid="). ... , SSID.

, 1 ,.. SQL- DAYOFYEAR(), . , (avg, max) .

'radius.radacct' (ClickHouse/MySQL), , 'export_cms_data', 'eltex_ems' (MySQL) ELTEX_GEO_OBJ . .

[vsp_by_period.zip](#)