

v1.27\_

- 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](#)**