

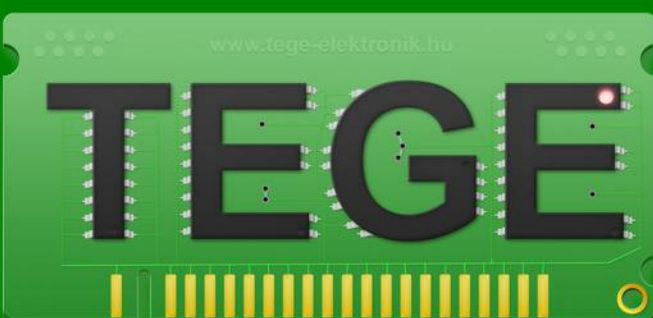


TeGeWatch BPD

Boundary Protection Device

TeGeWatch BPD provides the most powerful and cost-effective radar data filter solution available today. The NATO compliant TeGeWatch BPD system consists of three modules: filter, data diode and a proxy server. The TeGeWatch BPD guarantees secure radar data transfer in both directions between sites which are processing NATO classified information with different level of classification. The dataflow direction depends on the configuration of the system. The filter itself can be configured by setting up xml files. The user can define and set the required SIC SAC codes and ASTERIX data items for the destination sites. The level of definition is a single bit in ASTERIX data.

TeGeWatch BPD guarantees that the user can simply connect sites with different security levels to transfer radar data either from the higher classified site to the lower, or vice versa.



TEGE Military Radardata Filter

Activites Filter About

In data

Data block:

Data record: 0

- Data item: I048/010 SAC:022 SIC:004
- Data item: I048/140 TOD:19:53:04.648
- Data item: I048/020 TYPE:ROLL_CALL CHN2
- Data item: I048/040 RHO:168.4 THETA:14.8
- Data item: I048/070 MODE_3/A:7221 SMOOTHED
- Data item: I048/090 MODE_C:0340
- Data item: I048/130 SUBFIELDS:01/07
- Data item: I048/220 ADDR:43BE89
- Data item: I048/240 ACID:AFL2414
- Data item: I048/250 BDS:5,0 6,0 4,0
- Data item: I048/161 TRACK_NUM:3248
- Data item: I048/042 X:79853.0 Y:301557.7 LSB:M
- Data item: I048/200 SPD:409.57 HDG:229.22
- Data item: I048/170 TYPE:SSR
- Data item: I048/230 FS:AIR

Data block:

Data record: 0

- Data item: I048/010 SAC:022 SIC:004
- Data item: I048/140 TOD:19:53:04.679
- Data item: I048/020 TYPE:PSR CHN2 TST
- Data item: I048/040 RHO:56.0 THETA:15.3
- Data item: I048/161 TRACK_NUM:3433
- Data item: I048/042 X:27403.8 Y:100036.9 LSB:M
- Data item: I048/200 SPD:0.00 HDG:15.32
- Data item: I048/170 TYPE:PSR

Data block:

Data record: 0

- Data item: I034/010 SAC:022 SIC:004
- Data item: I034/000 MSG_TYPE:SECTOR_CORSSING
- Data item: I034/030 TOD:19:53:06.609
- Data item: I034/020 SECTOR:10 IDEG

Data block:

Data record: 0

- Data item: I048/010 SAC:022 SIC:004
- Data item: I048/140 TOD:19:53:04.828
- Data item: I048/020 TYPE:PSR+ROLL_CALL CHN2
- Data item: I048/040 RHO:141.5 THETA:23.0
- Data item: I048/070 MODE_3/A:6007 SMOOTHED
- Data item: I048/090 MODE_C:0350
- Data item: I048/220 ADDR:14FA3A
- Data item: I048/240 ACID:RSD004
- Data item: I048/250 BDS:5,0 6,0 4,0

Radar sources

Nr	Radar name	SIC/SAC	Alive
1	Test22	4/22	False
2	Test33	5/22	False
3	Test11	10/22	False

Button1 Alarm ack.

Logged in user: admin Privileges: 6 Filter: running

```

case I048: {
    unsigned int frn = get_cat48_frn(di.type);
    std::memcpy((void *)buf, di.data, di.size);
    switch (di.type) {
        case I048_010: {
            radar_data_t findRadar =
            {
                .SICSAC = MAKEWORD(di.data[0], di.data[1]),
            };
            auto id = Radars.find(findRadar);
            *it = id;
            if (id == Radars.end()) {
                valid_odr = false;
                filt = true;
            }
            break;
        }
        case I048_020: {
            if (CHECK_BIT(buf[0], 4)) {
                valid_odr = false;
                filt = true;
            }
            if (!filt && (di.size > 1)) {
                if (CHECK_BIT(buf[1], 7)) {
                    valid_odr = false;
                    filt = true;
                }
                else {
                    buf[1] &= ~0x1f;
                }
            }
            break;
        }
    }
}
    
```

Create user

User data

Username:
normaluser

Password:
[]

Retype password:
[]

Admin user Default password

Delete user

Create Cancel

The TeGEWatch BPD supports multiple operating platforms and all hardware is commercially available off-the-shelf (COTS).

Boundary protection will always play a significant part in cyber security. The BPD sits at the most critically important place in the network and needs to have a centralised point of visibility and control over everything entering and leaving the network.