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PCAP Record Management and VLAN Mirroring

PCAP record management

12 service includes PCAP recording for all subscriber traffic. The PCAP file is placed in the path specified in the basic configuration in `fastdpi.conf`:

```
ajb_udpi_path
```



In 12 service, the PCAP is written at the subscriber level when processing has taken place and the policing and services have been applied to the subscriber.

One can control start and stop of the recording on the platform by SM `fdpi_ctrl` utility when the parameter `ajb_reserved=1` is set:

```
fdpi_ctrl setenv --ajb_save_url 1  
fdpi_ctrl setenv --ajb_save_udpi 1
```

Enabling PCAP recording:

```
fdpi_ctrl load --service 12 --ip 192.168.1.1  
fdpi_ctrl load --service 12 --login USER101
```

Disabling PCAP recording:

```
fdpi_ctrl del --service 12 --ip 192.168.1.1  
fdpi_ctrl del --service 12 --login USER101
```

To quickly find data in a PCAP file, you can create a file with indexed data by turning on the settings in `/etc/dpi/fastdpi.conf`:

```
ajb_pcap_ind_mask=1
```

Here:

- 0 - index is not created (default value)
- 1 - IPv4
- 2 - IPv6
- 3 - both IPv4 and IPv6.



If other recording methods are enabled for this subscriber (`ajb_save_udpi` or `ajb_save_ip`), then `SESSION_ID` will be not recorded to the resulting index.



The minimum PCAP file size is 100 MB

Mirroring on a VLAN

17 service includes mirroring of subscriber traffic to a specific VLAN that is swept into the data ports of the SSG. the traffic direction is preserved.

Setup in `fastdpi.conf`:

```
span_vlan=123  
span_trace=1
```

You can use one of the parameters in `fastdpi.conf` for diagnostics:

```
trace_ip  
span_trace  
ajb_save_emit
```



If we set service 12 and 17, we will see the original recording and the mirrored recording in PCAP.