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# PCAP Recording Management and VLAN Mirroring

## PCAP Recording Management

Service 12 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 Service 12, PCAP is recorded at the subscriber level, after the processing, policing, and services have been applied to the subscriber.

When the parameter `ajb_reserved=1` is active, you can control the start and stop of the recording on the platform using the SM utility `fdpi_ctrl`:

```
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:

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

To quickly search for data in the PCAP file, you can create a file with indexable data by enabling the setting in `/etc/dpi/fastdpi.conf`:

```
ajb_pcap_ind_mask=1
```

Where:

- 0 - index is not created (default)
- 1 - by IPv4
- 2 - by IPv6
- 3 - by IPv4 and IPv6



If other recording methods for the same subscriber, `ajb_save_udpi` or



ajb\_save\_ip, are enabled, the resulting index will not write SESSION\_ID



The minimum PCAP file size is 100 MB

## VLAN Mirroring

Service 17 includes mirroring subscriber traffic to a specific VLAN, which is added to the data ports of SSG. The traffic direction is preserved.

Configuration in `fastdpi.conf`:

```
span_vlan=123
```

For diagnostics, you can use one of the parameters in `fastdpi.conf`:

! These are hot parameters, enabled and disabled with `reload`

```
trace_ip
span_trace
ajb_save_emit
```

Enabling VLAN mirroring:

```
fdpi_ctrl load --service 17 --ip 192.168.1.1
fdpi_ctrl load --service 17 --login USER101
```

Disabling VLAN mirroring:

```
fdpi_ctrl del --service 17 --ip 192.168.1.1
fdpi_ctrl del --service 17 --login USER101
```



If both services 12 and 17 are enabled, the PCAP will show both the original and mirrored recordings.