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## How to Configure IPFIX

<https://campus.barracuda.com/doc/17809/>

For exporting network flow information with IPFIX, complete the following steps:

### Step 1. Enable and Configure IPFIX

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Before you can export network flow information, you must enable and configure IPFIX.

1. Go to **CONFIGURATION > Configuration Tree > Box > Infrastructure Services > General Firewall Configuration**.
2. In the left menu, select **Audit and Reporting**.
3. Click **Lock**.
4. In the **IPFIX Streaming** section, set **Enable IPFIX Export** to **yes**.
5. (optional) Set **Enable Intermediate Flow Report** to **yes**.
6. (optional) Enter the **Intermediate Reporting Interval [min]** for intermediate reports in minutes.
7. Choose an **IPFIX Template**:
  1. **Basic** - Includes only the most basic data and should therefore be compatible with most collectors.
  2. **Default** - This is the default template and includes all data from the basic templates plus all Barracuda proprietary fields.
  3. **Extended** - This template extends the default template with the elements *octetTotalCount*, *packetTotalCount* and timestamps relative to the system uptime.
  4. **Extended without proprietary fields** - This template contains all data of the extended template, but omits all Barracuda proprietary fields.
  5. **Custom** - Select this option to define a custom template by selecting the individual *Information Elements* that should be sent.
8. Click **+** next to **Collectors** to add an IPFIX collector.
  1. Enter a **Name** for the collector settings and click **OK**. The **Collectors** window opens.
  2. Select the protocol from the **Export Mode** list. UDP is supported by most collectors.
  3. If you are using TCP/TLS, configure the TLS certificate settings.
  4. Enter the **Collector IP**.
  5. Enter the **Collector Port**. Typical collector ports are: 2055, 2056, 4432, 4739, 9995, 9996 and 6343.
9. Click **OK**.
10. Click **Send Changes** and **Activate**.

### Step 2. (optional) Enable IPFIX for the HTTP Proxy Service

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If necessary, it is also possible to enable IPFIX for the HTTP proxy service. The HTTP proxy service uses a Biflow IPFIX template, which cannot be configured by the user, and contains the following information elements:

- *sourceIPv4Address, destinationIPv4Address, sourceTransportPort, destinationTransportPort, octetDeltaCount, octetTotalCount, flowStartMilliseconds, flowEndMilliseconds, flowDurationMilliseconds, httpRequestMethod, httpRequestContentype,, httpRequestHost, httpRequestUserAgent, httpRequestTarget, httpRequestStatusCode*

1. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > HTTP-Proxy > HTTP Proxy Settings**.
2. From the **Configuration Mode** menu, select **Switch to Advanced View**.
3. Click **Lock**.
4. In the **Log Settings** section, set **IPFIX Streaming** to **yes**.
5. Click **Send Changes** and **Activate**.

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