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# The deployment model

```
flowchart TB
    subgraph Host1 ["ePDG Server"]
        EPDG["fast-epdg (VoWiFi gateway)"]
        PLUGIN["metrics endpoint :9817"]
        EPDG --> PLUGIN
    end
    subgraph Host2 ["Monitoring server"]
        PROM["Prometheus"]
        GRAF["Grafana"]
        AM["Alertmanager"]
        SNMPTRAP["SNMP Trap Sender (webhook gateway)"]
        PROM --> GRAF
        PROM --> AM
        AM --> SNMPTRAP
    end
    subgraph Host3 ["External systems"]
        NMS["Операторская NMS (HP OpenView / NetAct / Tivoli)"]
        CHAT["ChatOps (Telegram / PagerDuty)"]
    end
    PLUGIN --> |HTTP :9817/metrics| PROM
    SNMPTRAP --> |UDP 162| NMS
    AM --> |Webhook| CHAT
```

## Deployment characteristics

Parameter	Value
<b>Metrics footprint</b>	Integrated (~2 MB memory overhead)
<b>External dependencies</b>	The self-contained fast-epdg package (rpm)
<b>Management</b>	fast-epdg.service systemd
<b>Configuration</b>	The monitoring section in fast-epdg.conf
<b>Update</b>	Updating the configuration without interrupting operations
<b>OS</b>	Linux (RHEL/CentOS 8+, Ubuntu 22.04+)
<b>Port</b>	9817 TCP (listening on 0.0.0.0, configurable)
<b>Deployment time</b>	< 5 minutes (enable the plugin in the config file + restart)

## Accommodation options

- **On-premise** — the plugin runs in the fast-epdg address space, zero resource consumption
- **Co-located Prometheus** — Prometheus collects metrics from an application running on the same host
- **Centralized** — a single Prometheus collects from all ePDG nodes