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Visualization and operational dashboards

Composition of dashboards

Dashboard	Panel	Purpose
ePDG Overview	10	Service availability, connection success rate, number of active sessions, SWu/SWm/S2b status, interface bandwidth
IKEv2 Details	10	Mes per second by type, histogram of request duration, delay in the 95th percentile, error by type, IKE SA life cycle
GTP Details	8	GTPv2-C PGW messages, retransmissions, cause code errors, GTP-U (uplink/downlink) carriers
Diameter Details	7	Number of application messages (SWm/SWx/S6b), duration of requests, state of watchdog timer, distribution of result codes, chronology of connection states

Design for Network Management Center (NOC)

flowchart TB
NOC["NOC Dashboard Layer"] --> OVER["ePDG Overview
KPI Summary"]
NOC --> IKE["IKEv2 Details
Drill-down"]
NOC --> GTP["GTP Details
Drill-down"]
NOC --> DIA["Diameter Details
Drill-down"]
OVER --> OVER_CLICK["Click attach KPI"]
IKE --> IKE_CLICK["Click session count"]
GTP --> GTP_CLICK["Click peer status"]
DIA --> DIA_CLICK["Click peer status"]

- **Auto Update:** 15-second update period
- **Adaptive color scheme:** green → yellow → red by threshold values
- **Drill-down:** from Overview to Detail to Component
- **Time-range selector:** 5 minutes to 30 days of history
- **JSON provisioning:** dashboards are automatically deployed