RADCOM NWDAF Datasheet

RADCOM NWDAF provides operators with a zero-touch, closed-loop approach to network operations and automated assurance based on 3GPP standards and custom use cases that add value to the standard.

Collecting and correlating data from multiple sources, RADCOM NWDAF is designed to streamline the way 5G network data is produced and consumed, as well as to generate insights and closed-loop actions to enhance the customer experience and proactively improve 5G service quality.

Feature set:	• A 3GPP-defined NWDAF that includes standard APIs and network interfaces and built-in AI/ML. • Offers an enhanced NWDAF that adds proprietary use cases, closed-loop options, additional interfaces and includes probe data ingestion.
3GPP specs supported:	• TS 23.288 • TS 23.501 • TS 23.502 • TS 29.510 • TS 29.520 • TS 33.501
NWDAF producers:	• Access and Mobility Management Function (AMF) • Network Exposure Function (NEF) • Network Repository Function (NRF) • Policy Control Function (PCF) • Session Management Function (SMF) • Unified Data Management (UDM) • User Plane Function (UPF) • Core Charging Function (CHF) • Any Network Function (NF) or Application Function (AF)
NWDAF consumers:	• Access and Mobility Management Function (AMF) • Network Exposure Function (NEF) • Network Slice Selection Function (NSSF) • Operation, Administration, and Maintenance (OAM) • Policy Control Function (PCF) • Session Management Function (SMF) • Unified Data Management (UDM) • User Plane Function (UPF) • Core Charging Function (CHF) • Any Network Function (NF) or Application Function (AF)
Notification types:	• Subscription events for periodic information • Subscription events for Threshold based notification • Subscription events for Event based notification • Query/Response notifications

Data types:	• Subscription notification events • Event data records • Packets • Fault management systems • Performance management systems
Interfaces:	• Nnwdaf • Ndccf • Nmfaf • Nadrf
APIs (3GPP):	• Nnwdaf_EventsSubscription Service • Nnwdaf_AnalyticsInfo Service • Nnwdaf_DataManagement Service • Nnwdaf_MLModelProvision Service • Nnwdaf_MLModelInfo Service • Ndccf_DataManagement Service • Ndccf_ContextManagement Service • Nmfaf_3daDataManagement Service • Nmfaf_3caDataManagement Service • Nadrf_DataManagement Service
Use cases supported:	• Dispersion analytics • DN performance analytics • QoS sustaiExpected UE behavioral parameters related to network data analytics • Network performance analytics • NF load analytics • Observed service experience related to network data analytics • nability analytics • Redundant transmission experience related analytics • Session management congestion control experience analytics • Slice load level related network data analytics use case • UE communication analytics • UE mobility analytics • User data congestion analytics • WLAN performance analytics
Proprietary use cases supported:	• RAN optimization • Signaling storm mitigation • Automated disaster recovery • Mass call event optimization • IoT anomaly detection • Unauthorized tethering and network hogs

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