

NB-IoT NETWORK DIAGNOSTIC REPORT

Device Information	
IMEI:	351469520164031
Report Time:	2026-02-14 02:28:41
Report Number:	R4031-02.28

Overall Status	■ FAILED
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Layer-by-Layer Analysis

Layer	Component	Status	Details
1	SIM Card	■ PASS	Ready
1	IMSI	■■ N/A	Not visible (may be normal)
2	Registration	■ FAIL	Searching (2,2)
3	PDP Context	■ FAIL	NETOPEN failed
4	UDP Socket	■ FAIL	CIOPEN failed
4	Data Send	■ FAIL	No data sent
4	Server ACK	■■ NONE	No acknowledgment

Server Configuration

Setting	Value
APN	IP

Root Cause Analysis

Failure Point	Layer 2: Registration
Diagnosis	Modem is searching for network but cannot register (CEREG: 2,2)

■ Recommended Actions

- Move device to location with better NB-IoT coverage
- Check if area has NB-IoT network coverage
- Verify SIM is activated for NB-IoT service
- Wait 2-3 minutes for network registration
- Check antenna connection
- Signal quality unknown