Drive-Test Analysis & Post-Processing

DRIVE-TEST LOGS TO KPI REPORTS IN 48 HOURS

From raw drive-test logs to operator-ready reports in 48 hours

Multi-vendor drive-test logs turned into 2G to 5G KPI analysis, heat maps and operator-format reports, in 48 hours as standard or 24 hours expedited.

STANDARD TURNAROUND
48h

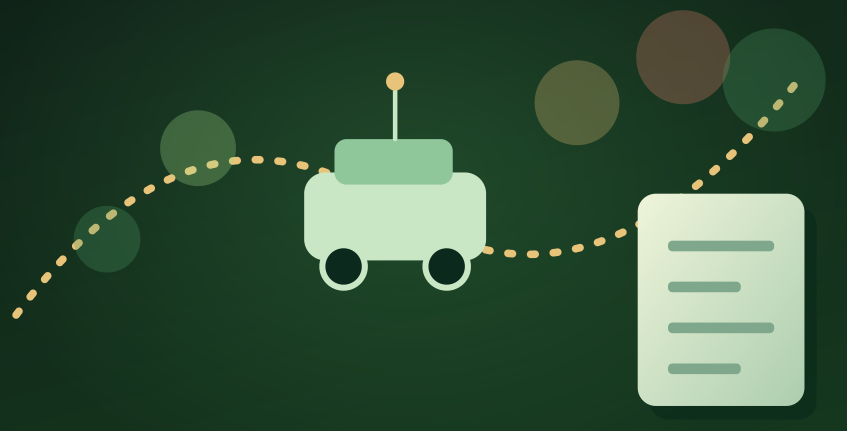
EXPEDITED TURNAROUND
24h

INCLUDING 5G SA
2G–5G

VENDOR LOG FAMILIES
3

Drive. Decode. Deliver.
TEMS, NEMO and scanner logs

2G to 5G SA
KPIs, heat maps and voice quality



48-hour standard turnaround
24 hours expedited, per campaign

Multi-vendor log ingestion

Nokia, Ericsson and ZTE drive-test logs, scanner data and KPI exports, decoded with repeatable parsing templates.

4G LTE KPI suite

RSRP, RSRQ, SINR, CQI, throughput, handover, PRACH and eRAB, plus carrier aggregation and IRAT mobility.

5G NR analytics

SSB-RSRP, CSI-RSRP, SSB-SINR and BLER, with EN-DC, accessibility, retainability and NSA to SA mobility.

OPERATIONAL CONTEXT

A clearer way to work

Multi-vendor drive-test logs turned into 2G to 5G KPI analysis, heat maps and operator-format reports, in 48 hours as standard or 24 hours expedited.

01

Logs in every format

TEMS, NEMO and scanner logs from Nokia, Ericsson and ZTE networks each need their own handling.

02

Slow manual processing

Analysts spend days decoding and charting logs before anyone sees a result.

03

Reports that need reworking

Output rarely matches the operator or OEM template, so it is rebuilt by hand.

THE CHANGE IN DAILY OPERATIONS

Before	With DTA
– Days of manual log decoding	✓ 48-hour standard turnaround
– A different process per vendor	✓ One pipeline for every vendor
– Charts rebuilt for each report	✓ Reports in your template
– Design breaches found late	✓ Automatic HLD and LLD flags
– No shared view of results	✓ Live dashboards for the team

AN OPERATIONAL SCENARIO

Turn a drive campaign into a report

A rollout or optimisation team has finished a drive campaign and needs coverage and quality findings quickly, in the format the operator or vendor expects.

48h
Standard turnaround

24h
Expedited per campaign

Live
Power BI dashboards

Your
Report template

CAPABILITIES 1

The capabilities that do the work

Explore the core functions of Drive-Test Analysis & Post-Processing and the operational tasks they support.

01

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04

Voice quality

VoLTE and VoNR analysis with MOS, call drops and end-to-end QoS and QoE.

05

Geo-referenced heat maps

Coverage and quality maps rendered with QGIS, Mapbox and MapInfo.

06

HLD and LLD compliance

Automatic flagging of parameters that break the design baseline or the operator's KPI thresholds.

DESIGNED AROUND THE USERS

Optimisation teams KPI findings and recommendations they can act on.

Rollout and swap managers Pre and post drive evidence for acceptance.

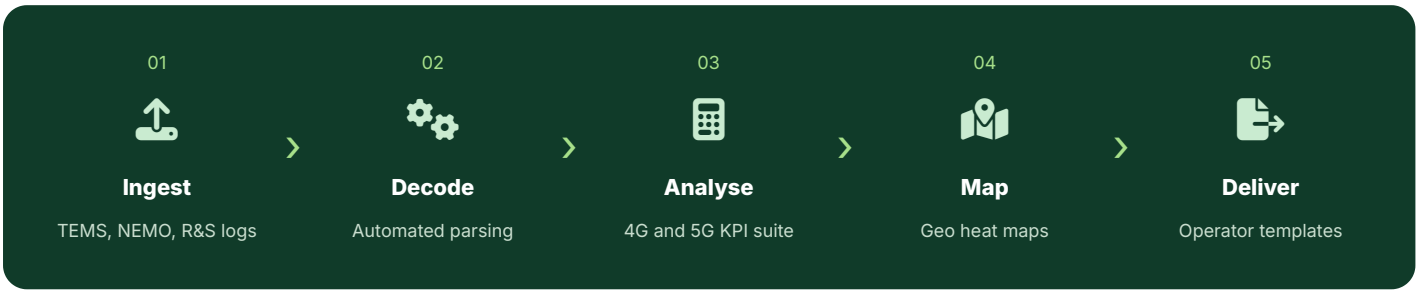
Network vendors Post-processing capacity for their operator contracts.

Programme owners Dashboards that show coverage and quality per area.

WORKFLOW

From the first step to the outcome

A connected sequence makes the handoffs and responsibilities easier to follow.



01

Receive

You share drive-test logs, scanner data and your HLD and LLD baselines.

02

Parse

Logs are decoded with TEMS Discovery, NEMO Analyzer and Accuver XCAP in batch or scheduled runs.

03

Analyse

RF analysts calculate KPIs, correlate them on the map and investigate the hard cases.

04

Check

A QA lead reviews every report and validates the findings before release.

05

Deliver

Reports, dashboards and recommendations arrive in your template, within 48 hours or 24 hours expedited.

A PRACTICAL WALKTHROUGH

Turn a drive campaign into a report

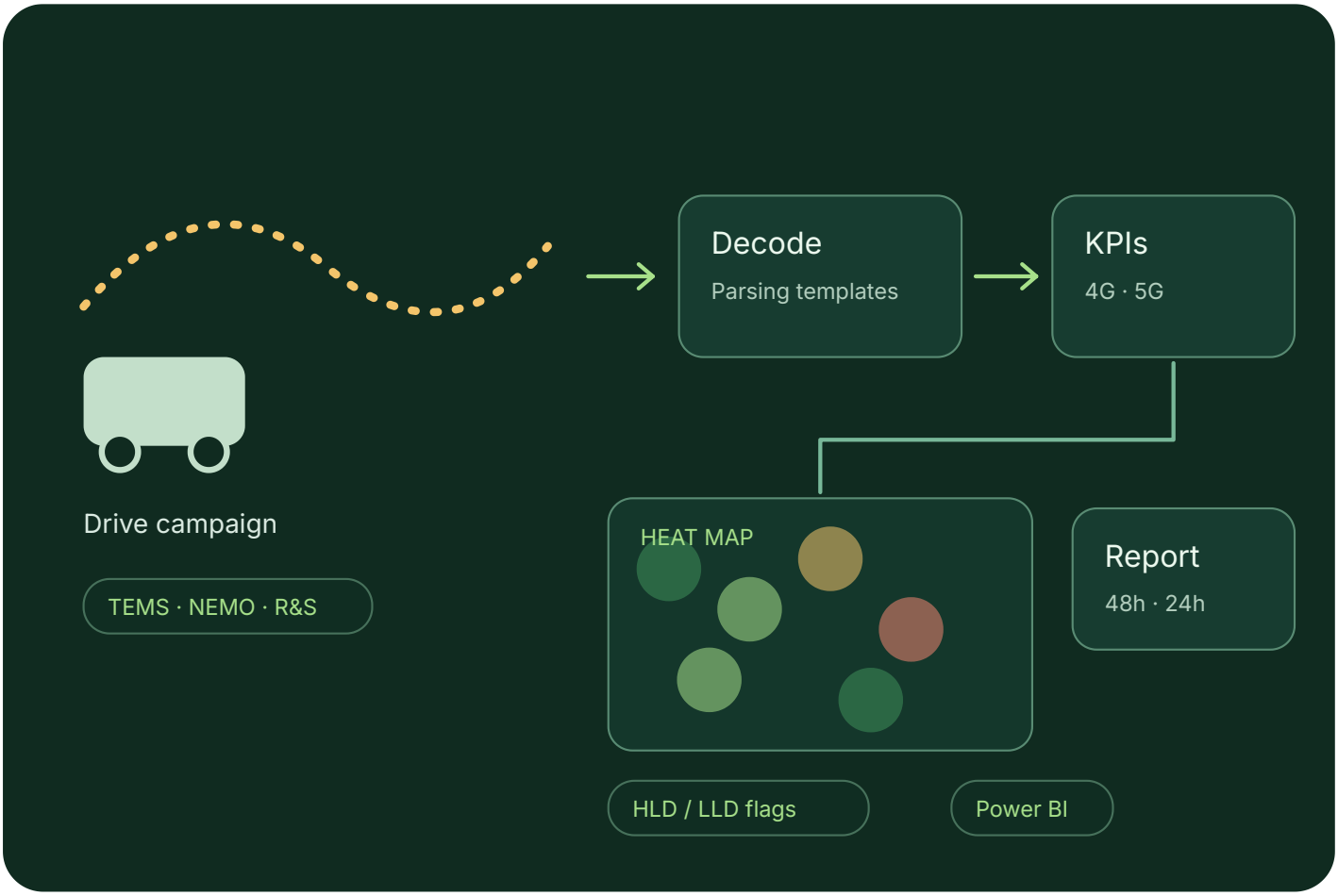
A rollout or optimisation team has finished a drive campaign and needs coverage and quality findings quickly, in the format the operator or vendor expects.

Share a sample of logs and your report template. We will agree the KPI set, the HLD and LLD baselines to check against, and a 48-hour or 24-hour turnaround.

ARCHITECTURE & HANDOFFS

From drive logs to an operator report

One pipeline takes logs from every vendor and tool, calculates the KPIs and delivers the report in the format you use.



Conceptual product flow · Drive-Test Analysis & Post-Processing

01

Ingest TEMS, NEMO and scanner logs with your HLD and LLD baselines.

02

Decode, calculate 4G and 5G KPIs and correlate them on the map.

03

Review every report, then deliver within 48 hours or 24 hours expedited.

DISCUSS YOUR ENVIRONMENT

Confirm the source systems, responsibilities and integration boundaries during the walkthrough. The diagram explains the product concept; the deployment scope is agreed for your environment.

TRACK RECORD

Work we have delivered

Named programmes where Exceleron Communications has delivered drive-test analysis & post-processing.

01 Drive-test post-processing for Nokia in Ivory Coast: KPI benchmarking, coverage and quality reporting, and optimisation recommendations.

02 Pre and post drive tests for Nokia and ZTE rollouts, vendor swaps and Universal Service Fund lots across Pakistan.

48h	24h	2G–5G	3
Standard turnaround	Expedited turnaround	Including 5G SA	Vendor log families

TECHNOLOGY 1

Understand the connected pieces

Formats, protocols and tools in the product scope, with plain-language explanations for technical and business readers.

TEMS Discovery

Infovista post-processing software for analysing drive-test logs.

NEMO Analyzer

Keysight software for decoding and analysing drive-test measurements.

Accuver XCAP

Drive-test analytics platform used to process logs centrally, including 5G NSA and SA.

R&S NQDI

Rohde & Schwarz software for analysing network quality and scanner data.

PCTEL scanners

RF scanning receivers that measure every cell on the air, independent of a phone.

MapInfo

Desktop mapping software for plotting drive routes and coverage.

QGIS

Open-source mapping software used to render coverage and quality heat maps.

Power BI

Microsoft dashboard tool for sharing live KPI reports.

Python

Programming language used to automate log parsing and PDF reports.

VoLTE

Voice calls carried over a 4G LTE data network.

5G NSA

5G Non-Standalone: 5G radio anchored on an existing 4G core.

5G SA

5G Standalone: 5G radio running on its own 5G core network.

THE DTA OPERATING FLOW



INTEGRATION PLANNING

Agree the source systems, supported versions, data ownership and access requirements during discovery. Validate the relevant interfaces against your environment before production rollout.

SPECIFICATIONS 1

The scope in detail

Use these product details as the starting point for a technical discussion.

Area	Product scope
Inputs	Drive-test logs (TEMS, NEMO, R&S), KPI exports, PCTEL and R&S scanner data, HLD and LLD baselines
Technologies	2G, 4G LTE and LTE-A, VoLTE, 5G NSA and 5G SA
Tools	TEMS Discovery, NEMO Analyzer, Accuver XCAP, R&S NQDI, MapInfo, QGIS, Mapbox
Outputs	Power BI dashboards, Tableau views, Python-automated PDF reports, Excel, QGIS layers and operator templates
Turnaround	48 hours standard, 24 hours expedited, per campaign

ASSURANCE & NEXT STEPS

Prepare for a successful rollout

Match the product scope to your people, systems and operating requirements.

PRODUCT ASSURANCE

- **Role-based, authenticated access**
- **Audit logs on project data**
- **Processing on customer-controlled compute**
- **No off-site copies of drive data**

PLAN THE ENGAGEMENT

01

Discover

Review your current process, source systems, users and constraints. Identify the operational problem the first phase should solve.

02

Demonstrate

Share a sample of logs and your report template. We will agree the KPI set, the HLD and LLD baselines to check against, and a 48-hour or 24-hour turnaround.

03

Validate

Agree the applicable product scope, access controls, integration checks and acceptance criteria. Confirm deployment and support responsibilities.

04

Handover

Plan user guidance, operational ownership and support contacts. Confirm the reporting cadence and review process for the agreed scope.

START A CONVERSATION

Explore DTA with our team.

Bring your operational scenario. We will walk through the relevant workflow and discuss a suitable scope.

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