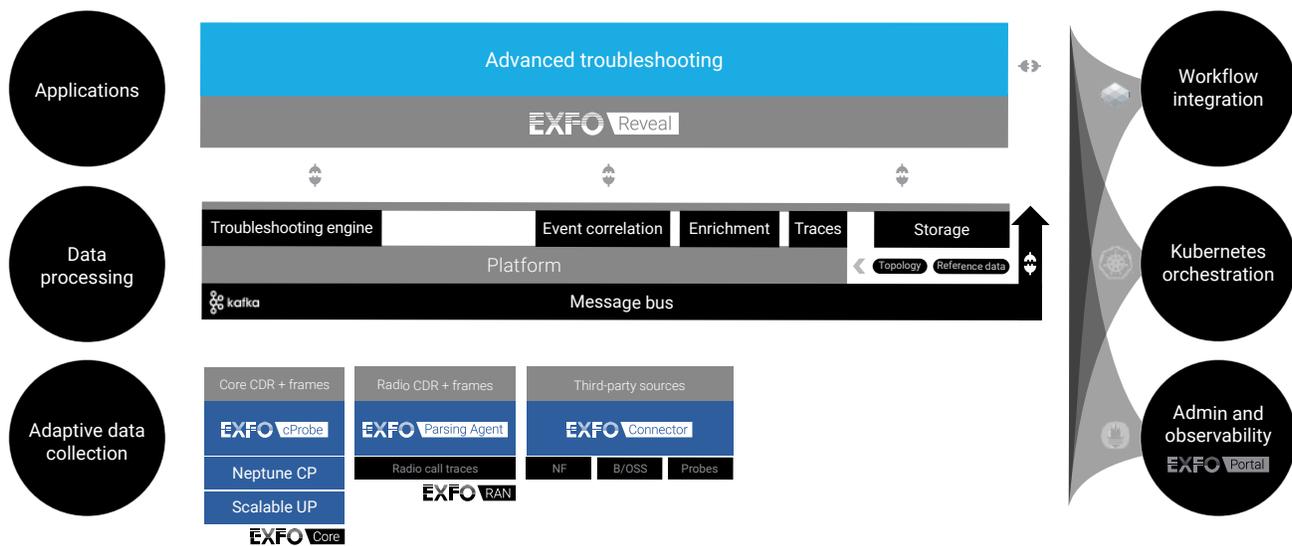


# EXFO Reveal

## ADVANCED 5G TROUBLESHOOTING

- Troubleshoot from core to radio access network (RAN) to subscriber and device with live and historical traffic.



## KEY FEATURES

Full RAN-to-core troubleshooting

Multi-dimensional visibility and troubleshooting

Full CP and UP visibility

Live and historical trace-level troubleshooting, including PCAP file playback

Ladder diagrams; correlation of control plane (CP) events/xDRs, user plane (UP) key quality indicators (KQIs), CNF observability/status, and packet/protocol decoding

Multi-interface xDR correlation; per interface xDRs

Adaptive data collection

Highly scalable

Support for 3GPP-compliant network function (NF) events

Micro-services-based, cloud-native probes (CP and UP)

Support for multiple CORE-RAN generations (2G/3G/4G/5G NSA and SA); support for CORE IMS

Support for multi-vendor environments

Powered by open-source software (Kubernetes, Kafka, etc.)

Open APIs for integration with in-house and third-party tools

Observability (NWDAF data feed); open to other systems and orchestrators

Complete visibility across services-based architectures (SBA)

EXFO Reveal enables service providers to perform complete RAN-to-Core troubleshooting for 5G SA and NSA networks. EXFO Reveal offers an intuitive user interface while providing powerful tools for troubleshooting network impairments in the most complex environments.

## RAN-TO-CORE TROUBLESHOOTING

EXFO Reveal provides full RAN-to-core troubleshooting in just a few clicks. It builds on 3GPP network function event data by enriching it with additional details from 3GPP network function events (e.g, Ericsson EBM, HP, Openet), probes (EXFO and third-party) as well as RAN call and session traces. EXFO Reveal provides support for both live and historical data.

## SUPPORT ACROSS MULTIPLE GENERATIONS

In addition to 5G networks, EXFO Reveal supports 2G, 3G, and 4G (LTE) networks, with support for both CP and UP data. It also supports IMS for troubleshooting VoLTE calling.

## TROUBLESHOOT DATA FROM MULTIPLE ANGLES

Troubleshooting data is available in several formats including event grids, message grids, ladder diagrams, detailed protocol decode trees and hex dumps. Operations personnel can leverage the format they are most familiar with when troubleshooting impairments or quickly switch among them as they deepen their analysis.

## FLEXIBLE UI ADAPTS TO EVERY USER

The EXFO Reveal user interface is completely customizable with the ability to save working environments as templates, particularly useful for recurring use cases. Users can save, re-use and share session filters, display filters, module settings and window layouts.

## CLOUD-NATIVE SOLUTION

In addition to the web-based application that users interact with, EXFO Reveal uses cloud-native probes. It is built using cloud-native open-source technologies such as Kafka and Kubernetes. Other key solution capabilities include adaptive data collection, orchestration and open APIs.

EXFO Reveal user interface with multiple troubleshooting modules enabled

**EXFO headquarters** T +1 418 683-0211 **Toll-free** +1 800 663-3936 (USA and Canada)

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