

CEREBRO

MULTIPLE SOURCES ■ DATA FUSION ■ MONITORING CENTER

- Central Intelligence system
- Capacity to handle several captors
- Data Fusion
- Scalable architecture
- Capacity to display and store billions of records
- Analysis tools, Business Intelligence, Consolidated dashboards



INTELLIGENCE LIFE CYCLE

CEREBRO Intelligence Core provides tools to address all the successive steps of the Intelligence Life Cycle. The day-to-day work of system analysts is eased by an ergonomic graphical interface and an efficient flowchart.

ACTIVE INTERCEPTION

Interception based on the LI modules installed on the active switches of the service providers (MSC, main switches).

PASSIVE INTERCEPTION

Surveillance of all the links and communications going through selected service providers (links between BSC and MSC, between main switches and international routers, etc.). No cooperation with the providers is required; Transparent solution.

VERSATILE AND FLEXIBLE INTELLIGENCE SYSTEM

CEREBRO is a core technology designed to monitor and analyze in real time communications on very high data rate networks. This turn-key system is capable of handling active and passive interception devices. CEREBRO is able to interact with several probes, including SMS, GSM calls, billing data, emails, voice over IP (VoIP) conversations, webmail, chat sessions, social networks ...

CEREBRO is entirely scalable and can work out with any size of interception flow.

LIVE ANALYSIS, DATA RETENTION, TIME MACHINE

Through the same core technology, intelligence analysts and Law Enforcement Agencies can perform two different types of data analysis:

- Enter your targeting criteria for a live surveillance of suspects.
- Analyze billing data to understand relationships and behaviour of suspected people or go back in the past to find relevant information in several billions of recorded conversations.

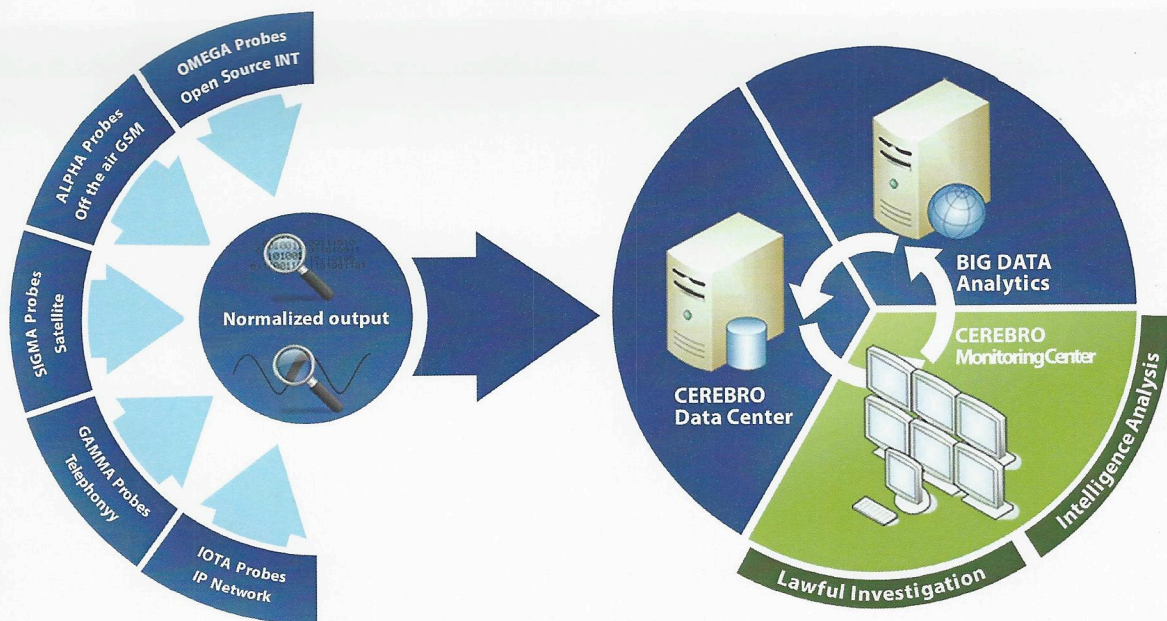
TURNKEY SOLUTION

Based on your requirements, we build a custom-made solution. A dedicated team of engineers and operational people will install, configure and tune up this system for your benefits.

Advanced Middle East Systems follow and support its customers to help them maximizing operational features offered by this technology.



**ADVANCED
SYSTEMS**



COMMUNICATION ANALYSIS (CEREBRO-TGT)

For active or passive interception, with decentralized or full-centralized architecture, CEREBRO core technology is the cornerstone of your future monitoring center.

Through an ergonomic graphical user interface, investigators and analysts are able to view and search into intercepted communications. The presentation is unified and independent of the type of sensor. The data fusion is done automatically in the CEREBRO core technology.

At any time, the investigators can follow live the activity of their target with advanced targeting criteria (email addresses, phone numbers, keywords, etc.).

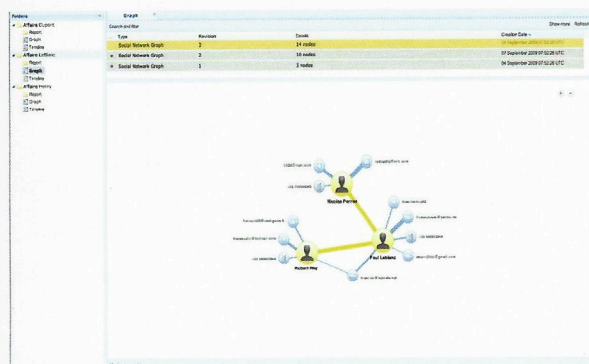
SEARCH IN THE PAST (CEREBRO-DRS)

CEREBRO is designed to store several billions of records - metadata and/or communication contents. Thanks to dedicated tools, investigators can go back in the past to find relevant information. Investigators can query the archive based on any technical identifiers to recover all its past activities, independently on the media used.

Optionally, the search in the past can be improved with a google-like approach. With this option, investigators access their archive through a non relational database allowing advanced features like semantic analysis, faceted search, social network representations, consolidated dashboards, etc.

SMART MODULES

To be able to analyze efficiently the huge tsunami of incoming information, we can provide a wide range of smart advanced modules to help the analysts. We can add in our CEREBRO systems smart modules like Voice to Text Transcription, automatic translation, geolocation of calls, semantic analysis, topic spotting, speaker biometric recognition ...



**ADVANCED
SYSTEMS**

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IOTA - IP PROBES

With 10 years of experience in IP network analysis, Advanced Middle East Systems proposes a state-of-the-art IP probe. Designed to decode hundreds of gigabits in real time, this probe is linearly scalable and follows easily quick network evolution.

GAMMA - TELEPHONY PROBES

Passive telephony probes designed and proposed by Advanced Middle East Systems can massively handle all the calls of a country without the service providers knowing any of your confidential activity.

SIGMA - SATELLITE PROBES

Only equipped with a satellite dish, we can perform a passive, long range monitoring of satellite links. The satellite probes can handle several types of communications (DVB, DVB-S, Thuraya, Inmarsat, etc.)