

# Vedicis Smart Traffic Collector

Real time data traffic extraction with DPI & traffic analysis



## Software solution for traffic visibility

Extracting the right data from the network traffic for all subscribers is critical not only to build statistics over time but also to detect events in real time for analytics.

In the Big Data era, telecom operators need to tap data traffic growth to create new revenue streams and understand bandwidth consumption to manage their networks.

Designed for ISV partners, **Vedicis Smart Traffic Collector** is a DPI & traffic analysis software – ready for NFV, to transform anonymous IP broadband traffic into real time detailed usage insight and actionable events to feed Big Data Platform for contextual marketing & network analytics.



## Get new visibility and insights into network traffic

Within MVNO, MNO, ISPs and Cloud IP networks, Vedicis Smart Traffic Collector

- captures and extracts user/Applications/location/device info with QoS and QoE KPI
- triggers real time events based on traffic analysis
- aggregates multiple DR in unique User Data Records
- feeds Big Data/CEM/Business & Network analytics in real time
- copy targeted traffic to a specialized lawful Intercept system.

## Address more use cases

- Big data projects with real time feeds
- BSS / Customer base management
- Fraud management / Revenue assurance
- Network management / Capacity planning
- CEM/Network analytics for call centers
- Lawful Intercept

## Unique DPI probe

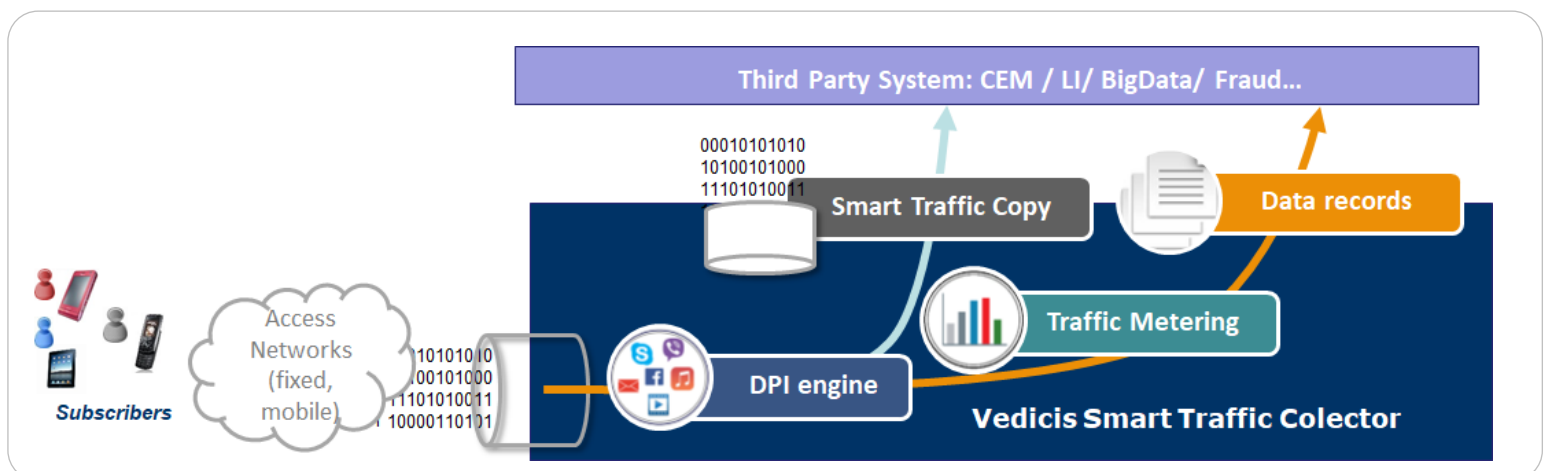
- High performance and density
- 80Gbps in a 2U server
- Customized triggers, targets, and data records/events
- Correlates directly subscriber ID in all events
- Aggregated user data records with QoS KPI

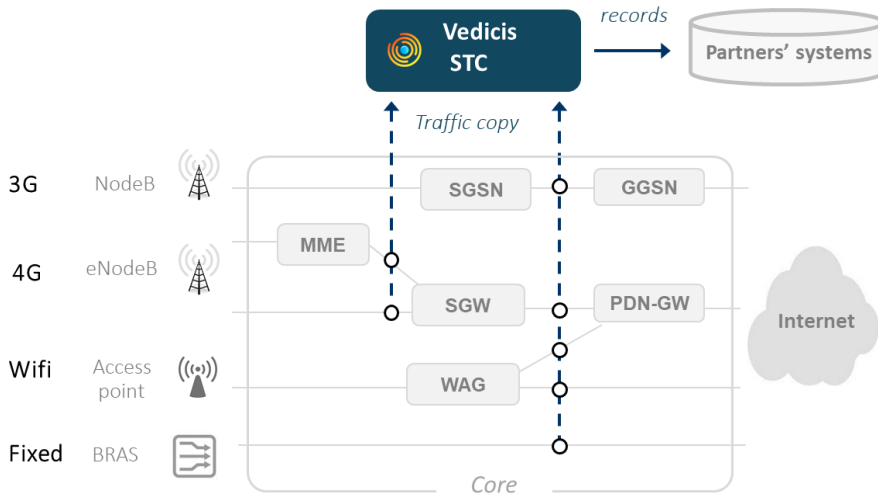
## Accelerate decision cycle, process, project deployment and operations

- IT platform with no network impact
- Ready for integration (DR, APIs)
- Quick project roll out
- Flexibility for configuration, change management

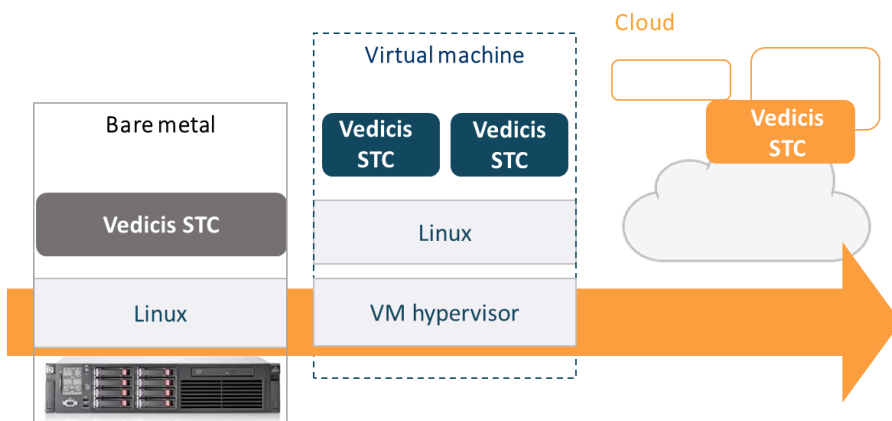
## Reduce data collection cost

- Centralized data capture and extraction for Internet traffic
- Density with 1 HP x86 server to manage 4x 10 GE links
- Standard Intel server, ready for virtualization
- High scalability
- Extract only effective data for less storage





## Deployment and integration overview



## Software and virtualized DPI Probe

Performance per Intel server and NIC (HPE DL380 G9 or equivalent)	
Subscribers support	10 million concurrent subscribers, expandable
Throughput	Up to 80 Gbps
IP Sessions	200 000 000 IP sessions 500 000 new sessions/s
Data Records	200 000 IP Data records /s Up to 500 counters per User Data Record
High availability	Active/hot standby node
Software technology	Linux operating system VMWare and Openstack compliant

### About Vedicis

Vedicis provides advanced IP broadband packet management software platform to fixed and mobile Communication Service Providers. With Vedicis PGW, DPI-PCEF and Wireless Access Gateway solutions, CSPs take informed actions for better traffic connectivity, control and monetization. Vedicis' leading NFV ready platform uniquely enables the technology migration to Software Defined Networks and to reap the benefits of more flexibility, faster integration and better ROI.

Visit [www.vedicis.com](http://www.vedicis.com) or email to [info@vedicis.com](mailto:info@vedicis.com).

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## Traffic analysis

### Subscriber and context awareness

- Subscriber and IP traffic correlation
- GTP V1, GTP V2, Radius
- Context: IMEI, Location ID, RAT, Charging ID, MCC-MNC.

### Service awareness and DPI

- More than 3000 applications and protocols available in DPI library
- DPI customization module: IP, ports, domain names (http, https).

### Metrics and QoS KPI

- Volume, bandwidth, sessions, time.
- Latency: access and internet Round Trip Time
- Packet loss: TCP retry rate

### Interfaces

- S11, S1-U, S5, S8, Gn, Gp
- Gi, sGi
- Radius, Diameter.

## Traffic visibility

### Data records

- IPDR: Per IP session (TCP, UDP)
- UDR: per subscriber and time period
- SDR: per connection (PDP context)
- ADR: configurable aggregation
- EDR: real time event data records

### On demand specific records

Specific protocol and metadata extraction

## Traffic statistics and monitoring

## Legal services

- Records with filtering capabilities
- Traffic interception: smart traffic copy per subscriber, IP address, and protocol ID.

## Full software solution

- Deployed on COTS Intel servers, Virtual machine, or as a DPI probe VNF
- APIs for partners' system integration and advanced DPI queries.

## Access agnostic

- Fixed, Mobile and Wifi access network compatibility