

# AEGIS End-to-End Solution

## End-to-End Network Visibility and Optimisation Solution

AEGIS is an End-to-End total solution that collects signal and data traffic from mobile network for 4G/5G (NSA/SA) in real-time to provide user call-based monitoring/analyze/statistics. By collecting real-time information from a various network interfaces (e.g. S1-MME, S11, S6a, S1U, etc), AEGIS filters, correlates, assembles and structures the data to provide and inspect your network performance.

### Use AEGIS to

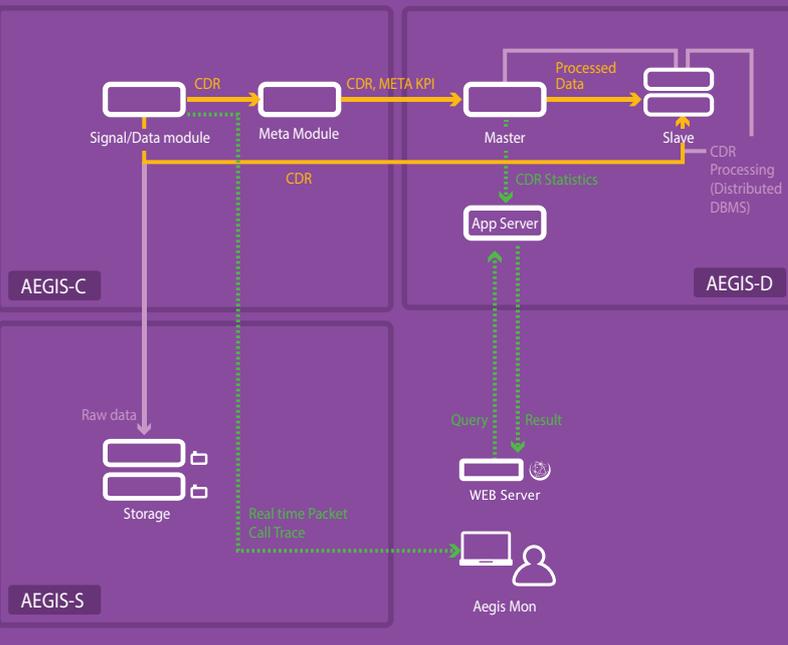
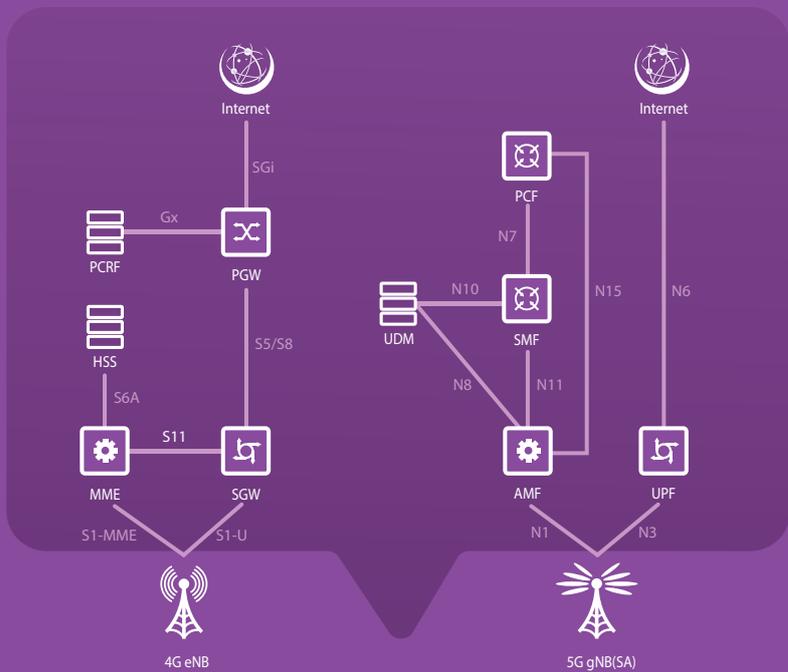
- Collect packet and analysis base on 5-Tuples
- Create CDR(Call Detail Record) for each interface with timestamp and User/ Location/Node Information and KPIs
- Provision interval of CDRs is 1 minute
- Store raw packets with timestamp and User/Location/Node Information with IMSI index table and Query raw packets based on Timestamp and IMSI/TMSI promptly
- Realtime packet trace based on IMSI/TMSI and IP/Port
- Time synchronize with NTP and GPS

### Benefits

One click analysis from visibility to deep-dive packet analysis



### AEGIS System Configuration



# AEGIS End-to-End Solution

## We are 5G ready

### 5G Functions with AEGIS

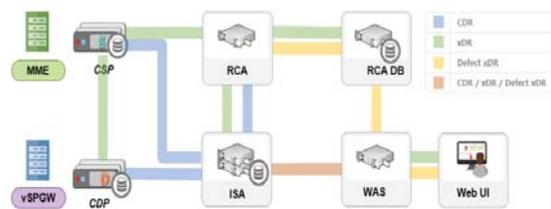
- Provides data that compares the number of 5G Service experienced customers and traffic usage by Access NW
- Provides a function to compare the traffic ratio for each Access NW type (5G gNB, 4G eNB) of 5G customers
- Provides a function to compare the number of customers by 5G Phone
- Provides a function to compare heavy user traffic share and gNB / eNB traffic ratio

### Life is easier with AEGIS

#### Seamless Monitoring



#### Root Cause Analysis (RCA)



#### Data Service Analysis



#### VoLTE Call Analysis



TYPE	KPIs
VoLTE Ca	Call Attempt
	SIP Connection
	SIP Setup complete
	Call Success by customer
	Cancel
	Busy
	Drop
	Setup
	Drop by RTP Timeout
	RTP Timeout
QoS/QoE	Oneway Call Count
	Initial Silent Call Count
	Middle Loss Call Count
	Rate for last # sec silent call
	Success ratio of
	IPsec deciphering
	Delay defect count
	Release Cause
	S, Release Cause #1
	S, Release Cause #2
Regi. Call	FC
	INVITE_CELL -ID
	MOS (RTP)
	MOS (RTCP)
	Loss Defect Ratio (RTP)
	Loss Defect Ratio (RTCP)
	Jitter Defect Ratio (RTP)
	Jitter Defect Ratio (RTCP)
	Regi attempt
	Regi Success
Regi Fail	
Regi Timeout	
Error Status	

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