

# Datasheet Service Provider

**Sinefa is a cloud based, Customer Facing Application Visibility for Service Provider (SPs).**

Sinefa is available as software only deployment for the SP core or as a hardware appliance for Customer Premises Equipment (CPE) deployments.

Sinefa uses probes to analyze network traffic. All probes are managed from the Sinefa Cloud. Sinefa offers hardware probes and software probes.

## Sinefa Cloud

Sinefa cloud provides management and reporting for Sinefa probes. Sinefa cloud offers each customer with a dedicated web-based reporting interface. Each customer gets granular visibility with all of Sinefa's analysis features. Sinefa's cloud is public but comes with the option of a private cloud.

## Sinefa Probes

Sinefa uses probes to analyze network traffic. All probes are managed from the Sinefa cloud. Sinefa offers hardware probes (CPE) and software probes.

### Software Probe

Typically reserved for the Service Provider Core solution, a software probe is used to collect and analyze traffic for many customers at key network aggregation points. Software probes can be scaled out to support millions of customers at multi-gigabit speeds. In the SP core, the Sinefa Probe segments traffic based on customer and presents each customer with a dedicated web portal for analysis and management of their traffic.

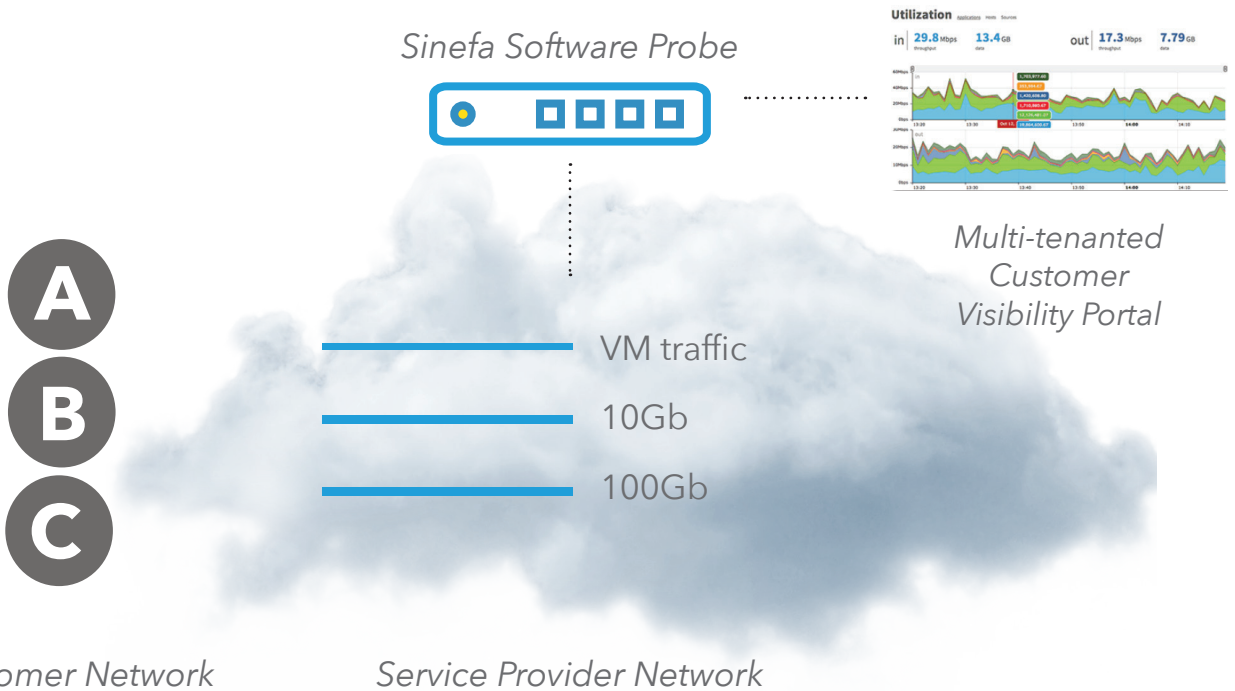
### Hardware Probe

Sinefa hardware probes are appliances suitable for deployment inside the customer's LAN. Designed for zero touch deployment with management and reporting in the cloud, the Hardware probes are ideal for distributed networks that require visibility down to individual users.



# Deployments

## Service Provider Core Deployment

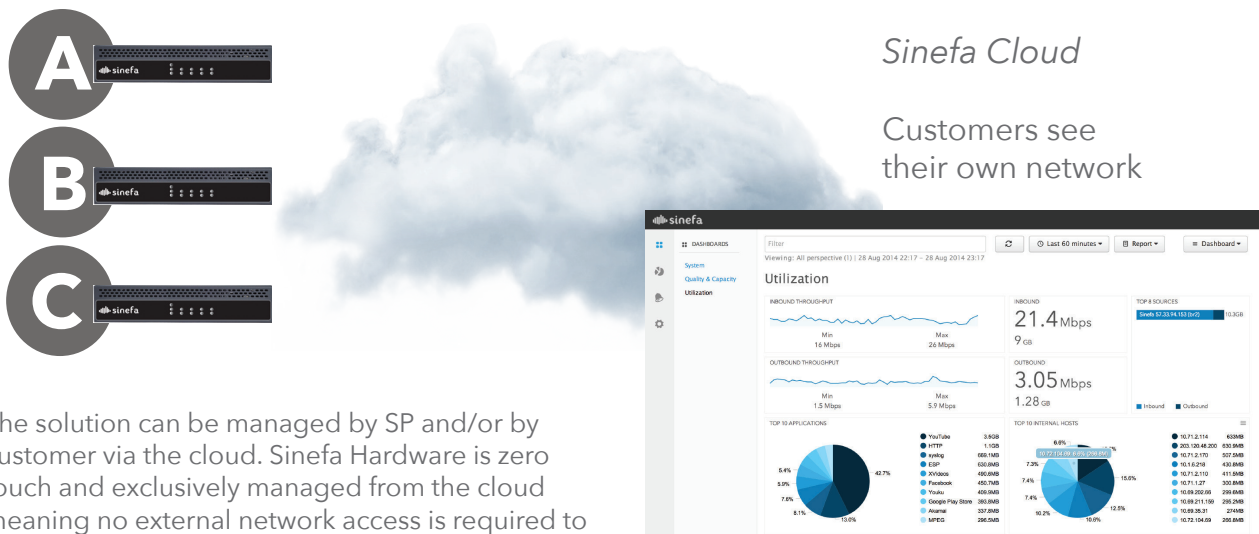


Traffic is sent from inside the SP network to the Sinefa Software probe for L7 classification. The customer visibility portal is presented to each customer via a public or private cloud option.

## Customer Premises Deployment

### Sinefa Hardware Probe

Sinefa Hardware can be deployed into multiple offices within each customer.



The solution can be managed by SP and/or by customer via the cloud. Sinefa Hardware is zero touch and exclusively managed from the cloud meaning no external network access is required to the hardware.

# Software Capabilities

## Application Visibility

Layer 7 signature based and behavioural based application detection

Deep Packet Inspection (DPI)

Inbound & Outbound measurements

Throughput by host & application

Reporting and drill down analysis by Application, Host, URL, Username

Sinefa Live - Realtime visibility down to 1 second resolution

WAN wide realtime visibility

Centralised Visibility on a single User Interface with time series charts

Query based searching for deeper analysis

Time based reporting and sampling period for last 60min, 24 hours, yesterday,

last 7 days, last week, last 30 days, last month, specific months in history

Customizable Dashboard reports with a variety of display widgets

Volume of traffic - per app and per host

Packet per second (PPS) - per app and per host

Max & avg throughput in each direction - per app and per host

Email delivery of PDF reports

Download Report to PDF format

Support for sharing/emailing reports by URL and PDF

API driven system for easy third party integration

Support for Netflow / IPFix

Support for Span / Mirror port

Inline or out-of-path Bandwidth Analysis

Active Directory integration

## Management

Centralised Management & reporting with a single User Interface

Cloud Based management

Secure HTTP for UI. SSH support for probes

Event reporting, searching and filtering of events and log entries

Customer Portal

Realtime access to system log files along

Command Line Interface (CLI)

Support for inviting users via email to access the system Role based access

## Customer Portal

Multi-tenanted solution

Customer and User account invitations

Management of all customers within a single management environment

Data and customer segmentation

Network intelligence for business customer networks

Self-help / self-service portal

Advanced data billing for Service Provider customers

Option from private Sinefa cloud deployed in SP

## Alerting

Threshold alerts on Network Quality and application visibility measurements

Time based alerts from 1min to 24 hours - Detect and alerts on thresholds

Notification objects supporting emails alerts, SMS, webhooks and third party alerting systems

Simple integration into legacy alerting systems

Alerting based on minimum thresholds

Alert Acknowledgements

Alert consolidation - only receive one alert even though many sites may detect issue

Enable/Disable email alerts for raise, acknowledge and clear status

## Deep Packet Inspection (DPI)

Extensive catalog of thousands of application signatures and their metadata

Detect apps no matter what port they use - i.e. HTTP, Skype, Bittorrent, anonymous proxy

Support Peer-to-Peer (P2P) Bittorrent, Thunder, Winny, Ares, Vuze, KaZaa BTmanager and many more including encrypted protocols like TOR

Support for business apps, video conferencing, VoIP, Citrix and much more

Video streaming including youtube, gototmeeting, webex, QQ live, MS Lync Music streaming including Pandora, iTunes, Spotify, PPstream and more

Enterprise apps - Oracle, MS Exchange, SAP, GoogleTalk, Office 365, Salesforce, Video/Audio Streaming over HTTP and more

Default and custom Application groups for improved management & App Control

Extra metadata for VoIP (codec), Flash (domain), HTTP (content, file type, URL, method)

Citrix (app name and priority), Windows Media (domain), RTP traffic (host)

See Sinefa's Application Catalog for more detail

## Network Quality

Measure Network Quality Score (NQS)

Delay/latency, Loss, Availability & Jitter for every Network Quality Test

Min, Max, Avg host latency/delay, loss, jitter & NQS

Time Series graphs for all quality statistics

Support for fully meshed Network Quality Tests

Geo-map for visualizing probes, tests and their respective quality and status

Alerting based on minimum thresholds

Low footprint measurement technologies for reduced network load - less than 1%

# Specifications

## SF200



Medium office  
up to 200 Mbps

## SF800



DC/Large office  
up to 2Gbps

## Software



Network Core  
up to 100Gbps

### Model

Model	SF200	SF800	Software
Max. Bandwidth	200 Mbps	2 Gbps	100Gbps
Concurrent connections	256,000	1 million	-
Max. Packets Per Second	32,000	512,000	-
Inline deployment	YES	YES	NO
Netflow & SPAN support	YES	YES	YES
Layer 7 monitoring	YES	YES	YES
Ethernet Ports	4	6	-
Bypass Ports	1	2	-
Serial Console	YES	YES	-
Rack mountable	YES	YES	-
Dimensions (WxHxD)	215 x 43 x 188mm	215 x 43 x 188mm	-
Weight	1.2KG	19.3KG	-

## About Sinefa

Sinefa is inspiring change in how customers experience the network by enabling Service Providers to deliver high quality network services while maintain pace with data and device explosion. Deployed as software at the network core or as customer premises hardware, Sinefa is architected for multi-tenancy, speed and scale, supporting thousands of subscribers and locations, multi-gigabit speeds with an ultra low deployment effort. Through patent pending technologies, cloud based centralised management and 1 second viewing resolution, Sinefa delivers ground breaking visibility for any fixed, broadband or mobile network.



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