

Data Sheet

InfraSense (Active Agent Sensor)

Continuous visibility into your enterprise IT network with infrastructure performance KPIs and Application Performance Transaction Tracing



InfraSense active agent sensor instrumented directly on critical business application servers extracts best in class collection of infrastructure KPIs directly from OS logs with zero overhead into application stack and provides automated orchestration to turn on application performance monitoring (APM) agent for application transaction level tracing for failure and degraded performance. It accelerates the unified and actionable observability into enterprise application, infrastructure performance while IT teams makes technological transformations to support new business requirements.

InfraSense active agent on business-critical application servers

- Available as a software only installation for any on premises/private/public based application servers, running on linux based application servers (Fedora, Centos, Ubuntu).
- InfraSense can be deployed with 3 different modes of operation based on customer's requirements.
 - **IPM Only Mode – Default Mode**
Runs with minimal resources and footprint and extracts rich metadata directly from operating system logs related to critical application processes and server level infrastructure KPIs. In this mode the InfraSense active agent adds zero overhead to business-critical application process/stack running on the server. This mode is recommended for all business-critical network-based applications (For E.g.: DNS, AD, EMAIL etc.) where customer has no control over the internal specifics of the commercial IT application and nether can-do application transaction tracing to understand failures or degraded performance in detail.

- **IPM + APM(OnDemand) Mode – (recommended mode for production business critical application owned & developed by customer)**
Before turning on this mode, the APM agent bundled with InfraSense installation needs to be hooked into the business-critical application and application service restarted as one-time operation. APM agents are available for java, node.js, rum.js, golang, .net, rack, rails-based applications and comes bundled during the InfraSense installation. Refer to ThoughtData technical documentation on configuring apm agents per application type. In this mode by default the IPM agent is always on collecting key infrastructure KPIs however APM agent although configured and switched on, the data collection is switched off by default for application transaction tracing. The APM agent is dynamically turned on and off from Enterprise360 when required for application transaction tracing which is driven failure and performance degradation situations occurring on the application server determined by data derived from NetSense KPIs. This method removes the need for continuous application transaction tracing and saves the overhead of apm agent resources for business-critical application.



InfraSense (Active agent sensor) Highlights

- **High-Performance:** Continuous, Infrastructure KPIs capture along with Application transaction tracing directly from application services.
- **High-Fidelity:** Real-time parsing & indexing KPIs with correlation to connection attributes from packet sensor. Continuous export of derived metadata in secured compressed binary format to Enterprise360 Platform.
- **Fast Results:** Ultrafast search and retrieval of statistical information derived from IPM and APM agents using indexing architecture
- **Rich Context:** Deep process level performance statistics, process error conditions, correlation to packet session, overall server resource performance CPU, Memory, Disk I/O, Network I/O, Storage performance
- **APM:** Deep application transaction level tracing for Java, .Net, Golang, Node,Js, Rum.Js, rack and rails based applications

- **IPM + APM (Always On) Mode**
(recommended mode only for non-production DEVOPs application servers owned by customer)

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node.js, rum.js, golang, .net, rack, rails-based applications and comes bundled during the InfraSense installation. Refer to ThoughtData technical documentation on configuring apm agents per application type. In this mode by default the IPM & APM agent is always on collecting key infrastructure KPIs and application transaction tracing.

Table 2. InfraSense Agent Sensor Software Resource Requirements

	System Requirements (Minimum)	InfraSense Resources Usage	OS
CPU Cores	2 CPU Cores	Less than 3% CPU Utilization	Any linux or windows based OS
Memory	8 GB RAM	200 GB RAM	
Network Interface Controllers (NIC)	A dedicated NIC for management	A dedicated NIC for management	
Hard Drives	100 GB hard drive	None	

To learn more about ThoughtData, visit: <https://www.thoughtdata.com>

ThoughtData, Inc.
9 Ledgerock way
Acton,
MA 01720
413.404.0030
info@thoughtdata.com

About ThoughtData Inc.

ThoughtData provides unified visibility solutions to enterprise IT organizations. Our solutions offer a single unified platform that blends innovative network, application, infrastructure, cloud performance and enterprise cyber security technologies. With this unique approach ThoughtData's solutions reduces cost, mean time to respond (MTTR), tool clutter and increases end to end visibility into enterprise IT in one single solution

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