



## SightLine for ClearPath OS 2200 Systems

### Power Agent Summary

The SightLine™ Power Agent™ for Unisys ClearPath OS 2200 Systems is the foundation of the SightLine software suite. The SightLine Power Agent resides on the ClearPath host and is easily configured to collect data on various key system components and on user-specified programs and groups of programs as single measurable workloads. The data is collected on a regular basis, stored on the host, and sent via TCP/IP to the SightLine Expert Advisor/Vision (EA/V) console(s) for alerting, analyzing, displaying, and reporting. SightLine EA/V is a Microsoft™ Windows™ application that takes advantage of all the inherent features of Windows including the Help function. Extensive documentation is available in addition to the Help facilities, providing easy access to the definition of every metric that SightLine collects, as well as instructions on the use of SightLine EA/V features.

**Note:** To use the data from a Power Agent, you must have the SightLine EA/V console installed and properly running. SightLine EA/V is purchased separately from other SightLine components.

The System Instrumentation Package (SIP) is a standard part of the OS-2200 operating system. When configured, SIP monitors and collects performance statistics about the operating system, workloads and major pieces of hardware on the system. A comprehensive set of statistics is supplied. SightLine provides statistics on CPU, Memory and I/O utilization, XPC, Gate Activity, IPM, Expool, Dynamic Allocator, Dispatcher, ER activity, and hundreds of other critical performance metrics. The SIP data source is included with the SightLine OS 2200 Power Agent.

### SightLine OS 2200 Interface Agents

SightLine OS 2200 Interface Agents provide additional data to SightLine EA/V. SightLine OS 2200 Interface Agents require the SightLine OS 2200 Power Agent to operate. They are described in the following subsections.

### System Log/INSP\$ Statistics

The System Log provides detailed TIP, demand, and batch resource usage statistics by individual run, program, and terminal. SightLine takes advantage of data available through INSP\$ calls so you get the information you need to link performance problems back to the user and transaction. Additionally, disk errors and security violations are monitored so that failing hardware or unauthorized usage can be detected before major system outages occur. System Log data also provides performance information relative to StorageTek robotics.

### MFD Statistics

The Master File Directory (MFD) can be queried to obtain information about the mass storage of a system. SightLine provides statistics about the availability (MFD K-Trks Avail) and the reliability (MFD K-NonErr Refs) of each disk drive and logical channel. Statistics are also provided summarizing these statistics for all cache, non-cache, fixed, removable, and for all disks. Additionally, SightLine can be configured to produce MFD statistics by qualifier, project-id, and account number.

## TIP KONS Statistics

TIP KONS is an area of memory set aside by the Transaction Interface Processor (TIP) to record the performance and behavior of a TIP transaction environment. SightLine monitors the critical performance measures in System KONS, so you can observe how a metric changes over time. The global metrics from System KONS can be used to determine the need to look at individual transaction statistics. There are eight areas of performance information available within the KONS Interface Agent: Transaction Response Times, Transaction Rates, Transactions Active, COMPOOL, Transaction Errors, FCSS, Transaction Scheduling, and Timer Statistics.

## UDS Statistics

The Universal Data System (UDS) measures transaction volume, queuing, and errors in any of the databases managed under the UDS umbrella, including DMS and RDMS. UDS data is gathered from the published UMON interface or from the ACT, QAD, and BST Tables within UDS. Hit rates can be determined, queuing problems can be quickly identified and overcome, and space utilization can be optimized. SightLine collects data for each DMR active on your system, covering three functional areas: Transaction Activity and DMR Slot Usage, Buffer Usage plus Rollbacks, and Queuing by queue reason.

## TPM/HVSTATs Statistics

Transaction Performance Monitor (TPM) audit trails and HVSTATs are used in place of TIP Logging at some sites. The statistics reported are similar to those described above for TIP Log, with the addition of several statistics unique to HVTIP. With SightLine, the TPM Log records can be grouped into workloads characterized by Program Name. HVSTAT records can be grouped by Program Name or Initial Control Program, User Word030, or LINC ISPEC.

## Step Control/MCB Statistics

Step Control metrics record tree usage and queuing by node and priority. Message queuing can be isolated in the input tree – queuing that will not show up directly as increased response time. Step Control identifies transaction being queued before they're scheduled. (System Log, TPM/HVSTATS, and UDS data identifies transactions being queued after they have been scheduled.) SightLine collects statistics for all configured priorities and nodes and displays input messages active and queued, total and maximum allowed; and output messages active, queued, and total. SightLine measures activity through CMS such as Messages In and Out, Passoffs, Checkpoints, Cancels, and Requeues, MRF Reads/Writes and Space Releases, and MCB buffer hits. MAD, Primitive, and SLOT Pool Usage are also measured.

## MAPPER Statistics

SightLine's MAPPER data is divided into six functional groups: Communication, Mass Storage, Memory Pool, Report Access, User Activity, and Workload. Workload data provides Utilization, Activity Counts, and Response Time Statistics by MAPPER function, department, user, run, and type.

## Telcon and CMS Statistics

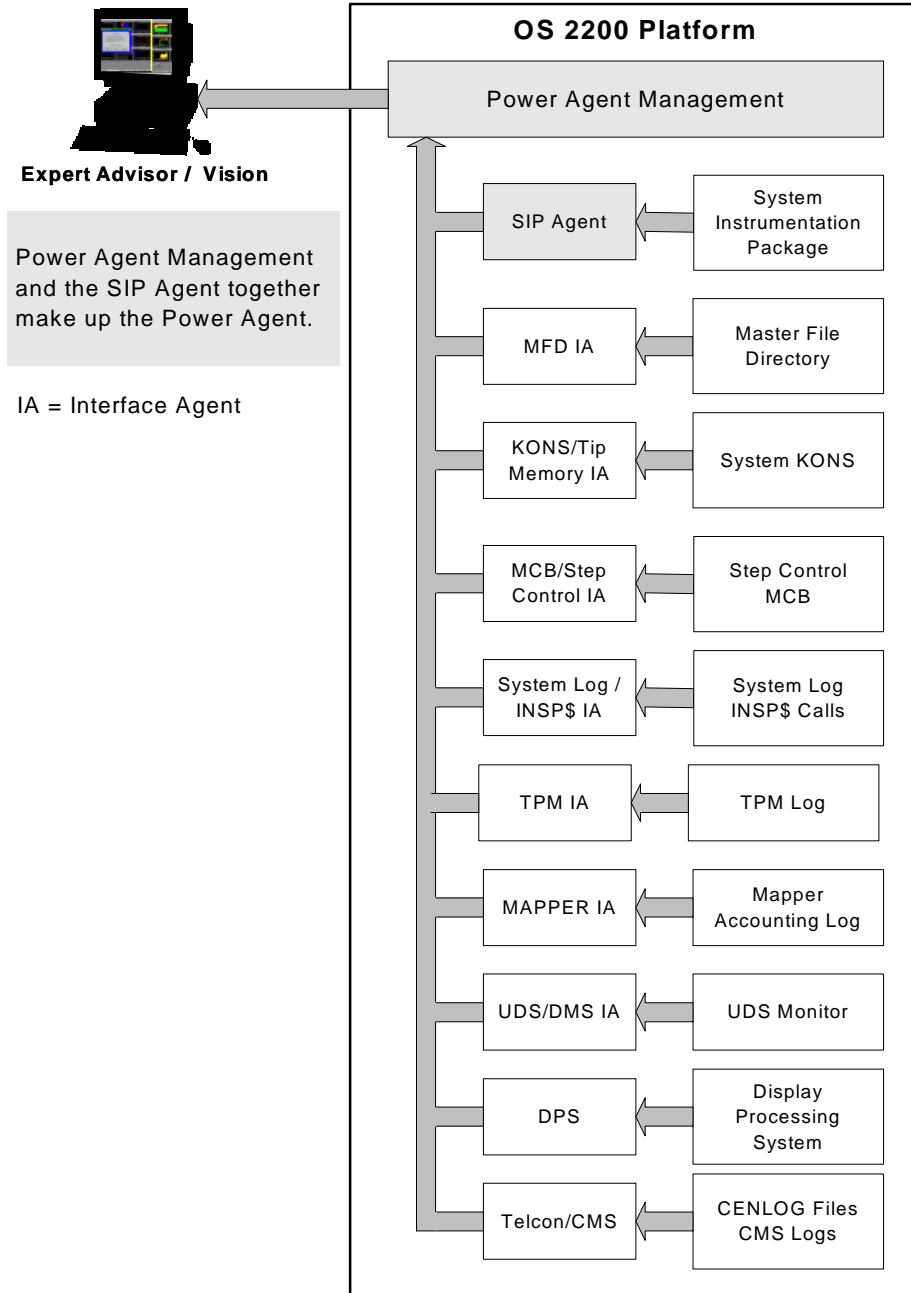
SightLine presents a view of the nodes of a Telcon network that represents a coherent view of the raw data collected by a network node in the context of the node's Telcon configuration. It is unique among Unisys network analysis tools, which usually display only the raw data collected and some limited derived variables. SightLine can develop derived statistics that allow a user to see and graph simple statistics representing the aggregate utilization and load of a network node. Global system metrics include Class/Event, Channel, Trunk, Line, Terminal, and Error statistics.

CMS data provides an event-by-event description of everything that went through the Communications Management System. Data collection from multiple instances of CMS is possible.

## DPS Statistics

The Display Processing System (DPS) is an application that allows application programmers to define and use screens for their programs. It is intended to separate the development and use of screens from other parts of the application. SightLine provides statistics on the inner-workings of the DPS system. These statistics include Message Activity, Errors, I/O Rates and Utilization, and Response Time.

## How the Agents Fit Together



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