

The architecture of SysTrack **involves a central Master Server, Data Services, and Agents**. The Master Server acts as the control center for the entire SysTrack environment, deploying and managing the Agents on endpoint systems. Data Services handles the storage and processing of data collected by the Agents, while the lightweight Agents collect real-time data from each system and send it to the Master Server for analysis. [1, 1, 2, 2]

Here's a more detailed breakdown:

1. Master Server:

- The SysTrack Master Server is the central component of the SysTrack environment. [1, 1]
- It manages the deployment of SysTrack Agents to endpoint systems. [1, 1]
- It also establishes and maintains the SysTrack tree structure, allowing for hierarchical management and organization. [1, 2, 3]
- The Master Server communicates with endpoint systems via web sockets and HTTPS, using port 443 and encrypted SSL/TLS. [4, 4]
- It uses a SQL Server database (SQL Server Express or SQL Server) to store the collected data from the endpoint systems. [1, 1]
- The Master Server can be configured to use a SQL Server Express database (included with the SysTrack download image) or a full SQL Server installation. [1, 1]

2. Data Services: [1, 1, 5, 5]

- Data Services provides the infrastructure for storing and processing the data collected by SysTrack Agents.
- It typically consists of a web application, an application server, and a frontend application.
- The web application is used for monitoring and administration of the Data Services system.
- The application server is the core runtime system of Data Services.
- The frontend application (especially the designer) is used for designing Data Services jobs.

3. Agents:

- SysTrack Agents are ultra-lightweight software components that are deployed on each endpoint system (e.g., desktops, laptops, servers). [2, 2]

- They collect real-time data about the system's performance, user experience, and other relevant metrics. [2, 2, 6]
- The agents collect a large amount of data (e.g., 10,000 data points every 15 seconds). [7, 7]
- They send the collected data to the Master Server's database for analysis. [1, 1, 2, 2]
- The agents can be deployed to a variety of operating systems, including Windows, macOS, and Linux. [8, 8, 9, 10, 11]
- Agents can be deployed using different methods, such as command-line deployment or through the SysTrack Deploy tool. [1, 8, 8]

Key Concepts:

- **SysTrack Tree:** The hierarchical structure of SysTrack deployments, where each branch represents a separate group of systems. [1, 1]
- **Endpoint Systems:** The individual systems (e.g., desktops, laptops, servers) where SysTrack Agents are deployed. [1, 1, 12]
- **Data Mined:** The process of collecting and analyzing data from endpoint systems using SysTrack. [2, 2]
- **Database:** The central storage location for the collected data, typically a SQL Server database. [1, 1]