

POWERHOUSE LICENSE MONITORING – ADVANTAGES OVER IN-HOUSE TOOLS

Managing software licenses efficiently is crucial for organizations who want to optimize costs and ensure compliance. In-house license monitoring solutions can initially be economical, but they come with challenges including slow performance, maintenance overhead, and scalability problems as license demand grows. In addition, in-house tools may not integrate seamlessly with job schedulers, and allocating resources for the development and maintenance of in-house tools may not be cost-effective compared to using commercial solutions.

Altair® Monitor™

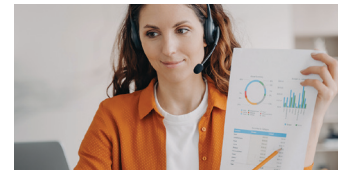
The Altair® Monitor™ license monitoring and management solution lets users and administrators get real-time insight into software license availability, usage, status, and expiry. Monitor uses current and historical data to help optimize license spending and utilization for organizations of any size — including large, multisite environments.

Challenges with In-House Tools

- **Scalability issues** – Managing in-house tools becomes complex and challenging as the number of licenses grows.
- **Maintenance overhead** – Ongoing maintenance of in-house tools leads to increased administrative overhead, affecting productivity.
- **Performance constraints** – In-house tools, often developed in Java or Python, may exhibit slower performance compared to C++, impacting the efficiency of license monitoring.
- **Lack of integration** – In-house tools may not seamlessly integrate with job schedulers, necessitating additional script development and administrative effort.
- **Resource allocation** – Allocating resources for the development and maintenance of in-house tools may not be cost-effective compared to commercial solutions.

Advantages with Monitor

- **Real-time usage insights** – Monitor provides real-time visibility into license usage, enabling timely decision-making and efficient resource utilization.
- **License infrastructure monitoring** – It goes beyond individual licenses by offering comprehensive monitoring of the entire license infrastructure, ensuring high availability and identifying potential issues in real time.
- **Historical reports** – The solution offers robust historical reporting capabilities, empowering decision-makers with insights into long-term usage behavior.
- **License file administration** – Monitor streamlines license file administration tasks, providing a centralized platform for managing license configurations.
- **Custom groups** – One of Monitor's most powerful features is the ability to create custom groups, empowering users to categorize and group license users based on specific criteria. This enhances the precision and relevance of data insights, contributing to a more efficient and targeted license management strategy.
- **Continuous improvement** – Monitor's widespread adoption provides a unique advantage, offering valuable feedback and real-world usage scenarios. This iterative improvement process ensures the solution remains at the forefront of license management technology.
- **Optimized performance** – Leveraging the efficiency of C++, Monitor ensures high performance even with large-scale license deployments.
- **Minimal overhead** – Altair provides full support with limited administrative overhead, allowing organizations to focus on their core activities.
- **Fine-grained monitoring** – Monitor offers a minimal sampling interval, enabling detailed insights into license usage and the ability to capture short tool checkouts.



Real-time insight for informed decision-making



Performance optimization for even the largest deployments



Historical reports that reveal long-term usage behavior



Streamlined license file administration

- **Scalability** – Monitor is proven to handle extensive workloads, supporting some of the largest customers with billions of checkouts and petabytes of data.
- **Comprehensive reporting** – The solution provides real-time usage reports for all configured licenses, offering transparency and aiding in decision-making.
- **Granular control** – Monitor allows project-level granularity when collecting information, enhancing customization based on organizational needs.
- **Integration with job schedulers** – Monitor tightly integrates with Altair® Accelerator™, streamlining processes and reducing administrative burden.
- **Multi-process data collection** – The solution employs a multi-process approach to collect data from license servers efficiently, preventing the risk of denial-of-service attacks.
- **Proactive monitoring** – Monitor ensures proactive monitoring, alerting, and notification for various scenarios, including license expiration and daemon downtime.
- **Remote management** – Organizations benefit from the ability to remotely manage license servers by installing agents, enhancing flexibility, and reducing on-site dependencies.
- **Insights derivation** – The ability to derive insights from collected data is a key differentiator.
- **Custom report batch generation** – Monitor empowers users to generate custom reports in batches, allowing organizations to tailor reporting to their specific needs and providing flexibility and efficiency in data analysis and presentation.

Conclusion

In the realm of electronic design automation (EDA), where license costs are notably high, Monitor stands out as a comprehensive and dynamic solution. From real-time usage insights and license infrastructure monitoring to historical reports, license file administration, and powerful data filtering through custom groups, Monitor addresses the core challenges of license management. The continuous improvement driven by its widespread adoption ensures that Monitor remains a strategic asset for organizations navigating the complexities of EDA.

By leveraging the power of real-time data, historical analysis, and customized reporting, organizations can optimize license utilization to pave the way for a more agile and efficient design process. As organizations strive to stay ahead in a dynamic and cost-sensitive landscape, Monitor emerges as a catalyst for data-driven decision-making and effective license management, ultimately contributing to enhanced operational efficiency and cost savings.

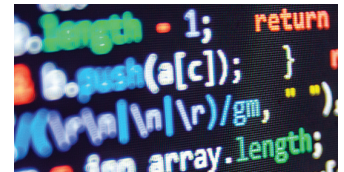
To learn more, please visit altair.com/monitor



Scalability to handle the biggest, most complex workloads



Comprehensive real-time reporting for all licenses



Project-level granularity for enhanced customization



Tight integration for streamlined job scheduling

Managing software licenses efficiently is crucial for organizations that want to optimize costs and ensure compliance.

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