

# CLOUD SUBSCRIPTION

Let us manage your LIMS, so you can focus on running your laboratory

## OVERVIEW

We are pleased to offer STARLIMS through a Cloud Subscription, featuring the innovation of STARLIMS industry-leading LIMS, combined with the virtually worry-free, cost-effective reliability of a cloud-based solution, all for a monthly subscription fee. STARLIMS Cloud is a secure application environment consisting of powerful server and storage technologies, managed by STARLIMS and accessible to customers via a web browser.

With STARLIMS Cloud, you do not have to purchase hardware, install software, or manage your system infrastructure. Leveraging STARLIMS Cloud allows you to be more productive and cost-efficient by allowing you to concentrate on what matters most: your business.

STARLIMS Cloud subscription includes:

- A public or private cloud offering hosted on AWS(Amazon Web Services)
- STARLIMS Licensing, Maintenance & Support
- All Infrastructure Software Licensing
- Application(s) high availability of 99.9%
- Development, Test and Production application environments
- Infrastructure maintenance including installation, patch management, and malware protection
- System monitoring, notifications, etc.
- Database maintenance, backup, and retention services
- Disaster Recovery (Recovery Time Objective 4 hours and Recovery Point Objective 15 minutes)
- Compliance with HIPAA and GDPR requirements

## LIGHTNING-FAST DEPENDABILITY

Often, companies are challenged to deploy systems within short timelines, and those challenges can be exacerbated by having to contend with equipment and personnel resourcing needs. STARLIMS Cloud drastically reduces the time required to begin a project, whether constructing an initial Proof-of-Concept, or deploying a full system.

There is little time spent navigating the budgetary process for hardware purchases or identifying IT support resources to staff the project.



## OPERATIONAL VS CAPITAL FINANCING

The capital funding request process for license and hardware purchases can be challenging and time consuming in some organizations. STARLIMS Cloud Subscription allows you to manage your LIMS as an operational cost, paying a monthly subscription fee which covers access to the software, infrastructure, maintenance and support for that month.

## RELIABLE SYSTEM STABILITY, VIRTUALLY CAREFREE MAINTENANCE, AND CONTINUOUS OPTIMIZATION

We will ensure your system is ready and available when you are. Our DBAs will monitor your system's performance and keep your systems tuned, while our IT experts will ensure system updates and patches are installed and up to date. Our disaster recovery plan provides a separate backup data center, with a recovery time objective of 4 hours and recovery point objective of maximum 15 minutes.

## COMPLIANCE WITH HIPAA & GDPR REQUIREMENTS

One of the concerns about data transmitted or maintained in the cloud pertains to data security. STARLIMS Cloud Subscription encrypts data in transit and at rest so that you can be assured that your data is safe and secure. We also offer options that are in compliance with HIPAA and GDPR requirements.

*\*For more information on GDPR compliance when using AWS services, please visit:*

<https://aws.amazon.com/compliance/gdpr-center/>

GDPR - Amazon Web Services (AWS)

## CYBERSECURITY

STARLIMS is committed to mitigate security risks in the products that we design, develop, and maintain. As required by the GDPR, we practice a “data protection by design” process and conduct in-depth assessments of our products so that the appropriate risk mitigation measures can be implemented.

The cybersecurity of the STARLIMS solution is a shared responsibility between both our product and our customers. The following non-exhaustive security controls are implemented in the STARLIMS product:

- User accounts - STARLIMS user management functionality supports role-based access control. Roles are used to restrict user access to applications and forms within the product.
- Secure account/password policy – The application supports the customer setting limits on the number of days before reusing the same password, changes before reusing the same password, days before changing the password, password lifetime, grace logins, failed password attempt lockout, and password complexities.
- Identities and credentials are managed – Rather than storing passwords in clear text, a salted hash of passwords is stored.
- Integrity and authenticity is maintained – Logic is in place that can detect evidence of tampering and reject any such requests. A procedure to check integrity is in place that validates extensions against a predefined list.
- Secure remote desktop connections – Remote desktop connections initiated by STARLIMS are password protected and initiated over secure encrypted communication channels.
- Application audit log – The application logs select security events including, but not limited to, login attempts and failures, user history and deactivation, and file access.

- Protection of data in transit – STARLIMS technology platform has advanced mechanisms in place that detect communication tampering and are efficient against automated penetration tools to ensure protection of data in transit.

## DYNAMIC ENVIRONMENT

As your business needs evolve, so do your computational needs. STARLIMS Cloud will adapt your CPU, memory, storage, and throughput requirements to meet your needs. Gone are the days when changing needs meant changing hardware and serious impact to your users. With STARLIMS Cloud, start with what you need now, and add licenses over time as your business grows.

## INTEROPERABILITY TOOLS

Bidirectional interfacing with clinical analysers and automated sample and plate handling systems. Interfaces to instrument management middleware. STARLIMS offers best-of-class Cloud environments, whether Public or Private, to complement your business' Cloud Strategy. With the Public Cloud option, customers can access their STARLIMS environment directly via the Internet. With the Private Cloud option, customers can access their STARLIMS environment as an extension of their internal network via secure connections such as PSec or MPLS.

## CLOUD INFRASTRUCTURE

### Powered by Amazon Web Services

Leading provider of Cloud infrastructure, with global availability. AWS has millions of active customers and compliance with multiple standards<sup>1</sup>.

powered by 



### Enhanced Security

Through many components such as Virtual Private Cloud (VPC) and Logical Separation via Database Containment



### Scalable, High Performance Architecture

On demand computing scalability, Solid State Drives and High Availability distributing load across multiple servers, improving performance



### High Availability

Automatic failover architecture, geographically separated, load balanced server and database cluster using always on availability groups



### Global Coverage

Data Centers in Americas, Europe and Asia Pacific

<sup>1</sup>Reference: <https://aws.amazon.com/compliance/>