DATAMINE

ASSAYNET

AssayNet LIMS 4

AD / LDAP and SQL Server Requirements Guide

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Overview

This guide describes what your IT team must provide to deploy AssayNet LIMS 4 with:

- Active Directory (LDAP/LDAPS) authentication.
- Microsoft SQL Server connectivity for the LIMS application.

Active Directory (AD) / LDAP Requirements

LDAP Connection Details

Provide:

- **LDAP Host:** Domain Controller host name or IP address
- **LDAP Port:** `389` (LDAP) or `636` (LDAPS)

Search Base Distinguished Name (DN)

Provide the directory scope where LIMS users reside.

Example: `OU=LIMS Users`, `OU=LIMS`, `DC=myDomain`, `DC=local`

LDAP Bind Account (Service Account)

Provide a dedicated AD account used for directory searches:

- Bind username
- Bind password
- Read-only directory access is sufficient (no administrative rights required)

Initial LIMS Administrator Account (Required)

Provide one existing AD user account that will be designated as the initial LIMS Administrator / Super User.

- This account must be available at configuration time.
- After setup, additional users can be added and managed through the LIMS interface.

SQL Server Requirements

AssayNet LIMS 4 requires two SQL Server logins (service accounts). These accounts have different purposes and different levels of access.

SQL Account Login 1 for Installation and Support Administration

This account is used by AssayNet/Datamine Support during:

- Initial configuration.
- Setup validation.
- Administrative maintenance activities (as required).

Required access: Database role `db_owner` on the LIMS database.

Required name: `assaynet_support`.

> **Note:** This account is not used by day-to-day end users.

SQL Account Login 2 for the LIMS Application (Runtime Account)

This account is used by the LIMS 4 web application (Blazor) to run the system during normal operations.

Required access:

- Restricted or least-privilege permissions appropriate for application runtime
- `datareader`
- `datawriter`
- `execute`
- No `db_owner` rights

Suggested name: `lims_app` or `assaynet_runtime`.

> **Important:** This account is configured in the application settings on the LIMS server. If you want to use an AD account for runtime access, it must be the same account that runs the IIS application pool.

Network and Connectivity Requirements

LDAP / AD Connectivity

The LIMS Application Server must be able to reach your Domain Controller on:

- TCP `389` (LDAP) and/or TCP `636` (LDAPS).

SQL Server Connectivity

The LIMS Application Server must be able to reach SQL Server on:

- TCP `1433` (default SQL Server port), or the client-specific SQL port if not using the default.

Summary Checklist for IT

Please provide the following:

Active Directory

- LDAP Host (Domain Controller host name or IP address)
- LDAP Port (`389` or `636`)
- Search Base DN
- LDAP Bind account username and password
- One AD account for the initial LIMS Administrator / Super User

SQL Server

- SQL Account Login 1 (Admin/Support): `db_owner` on the LIMS database with login name `assaynet_support`
- SQL Account Login 2 (Application Runtime): restricted or least-privilege login for normal operation

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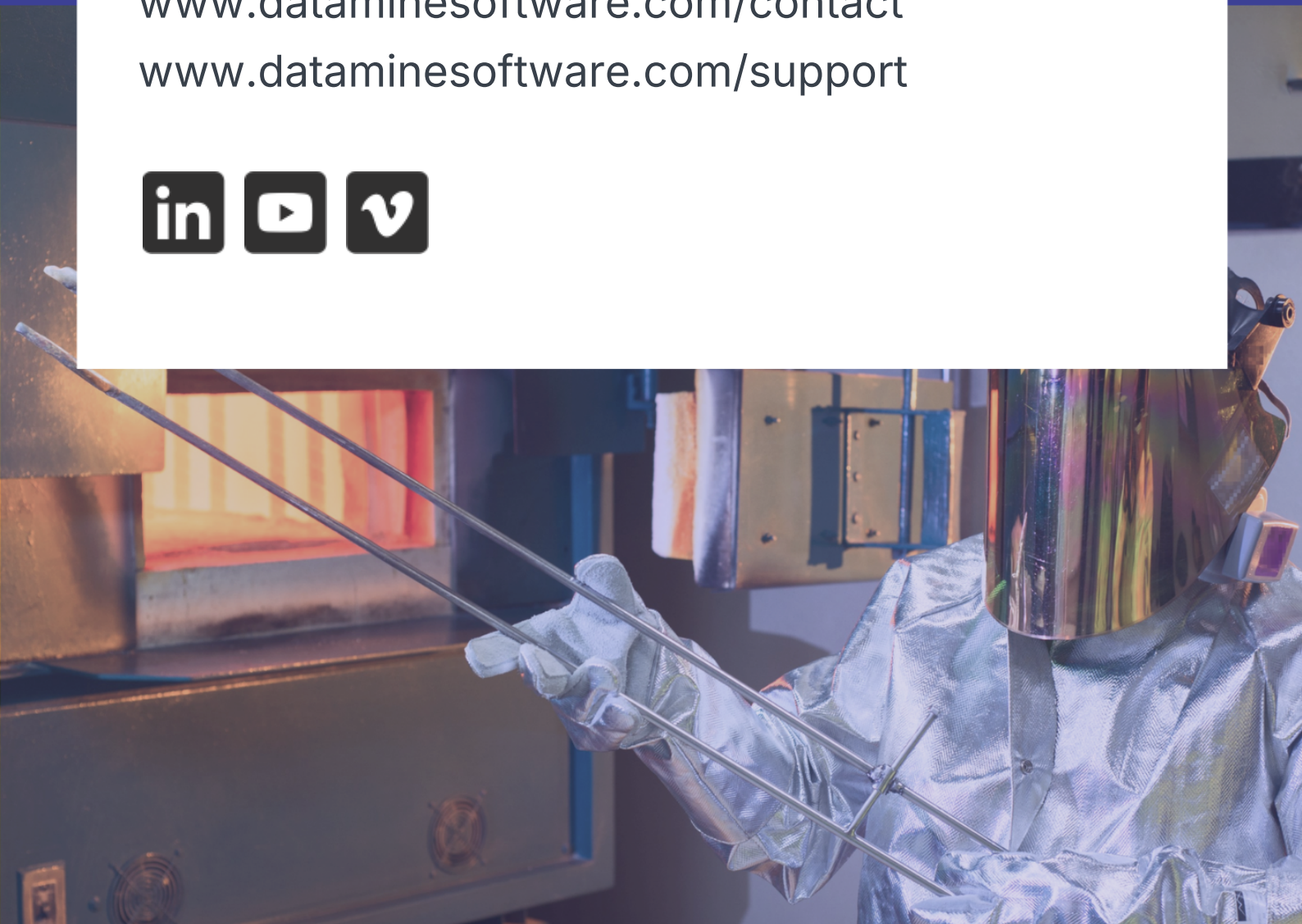
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