

Oracle® Fusion Middleware

WebCenter Forms Recognition ALE Learnset
Manager Technical Specifications

14c (14.1.1.0.0)

F76456-02

October 2025

Includes technical specifications for ALE
Learnset Manager

Oracle Fusion Middleware Oracle WebCenter Forms Recognition ALE Learnset Manager Technical Specifications, 14c (14.1.1.0.0)

F76456-02

Copyright © 2023,2025 Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, and MySQL are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.



Table of Contents

About ALE Learnset Manager..... 4

About ALM Technical Specifications..... 4

Secure Environment Recommendations..... 4

Side-Channel Risks 5

Server Requirements..... 5

Network Port Usage 5

About ALE Learnset Manager

The ALE Learnset Manager or ALM is a web-based administration client that enables you to create, modify, and delete projects and classes which will be used by the Automated Learning Engine (ALE) to learn how to classify or extract data from documents.

You can also edit classes by adding and removing training documents to improve the performance of each learnset.

About ALM Technical Specifications

This document provides the technical specifications for ALE Learnset Manager. The technical specifications in this document are specific to a product release. We publish a new technical specification for each major release.

The product highlighted in this document has unique requirements. It is important to understand what the product is and how it relates, or does not relate, to the other products.

Some of these technical specifications also provide minimum recommendations which are based on historical customer implementation/performance data. For maximum performance, review your specific environment, network, and platform capabilities and analyze your planned business usage of the system. Your specific system may require additional resources above these recommendations.

This Technical Specification lists third-party products and platform versions to which the respective vendors provide general support at the time of our release. If the support lifecycle for a third-party product or platform version ends during the life of the Oracle product that supported it, you must either update to a supported version or subscribe to extended support from that vendor. Taking this step ensures that your support from Oracle is sufficient across all products.

Note: As part of the sales process, Oracle provides detailed hardware requirements that are specific to your configuration needs, based on volumes, desired throughput, number of users, existing infrastructure, and so on.

Secure Environment Recommendations

The following recommendations are intended to help secure the installation environment. The policies of your organization may have additional or more robust requirements that should also be followed.

- Use TLS for all HTTP traffic, including private network segments. TLS ciphers must be maintained to stay current over time.
- Use Secure FTP instead of standard FTP for all FTP traffic.
- End-to-end encryption is recommended for all data in transport, independent of a network segment. Note that some regulatory compliance requirements may require end-to-end encryption.
- Change all default passwords before activation of the production system. This applies to Oracle products as well as third-party products used by Oracle products (such as a database server).
- Authorization rules should be configured and tested before activation of the production system.
- Use database encryption for all sensitive data persisted in the database.
- Use file system encryption for all sensitive data and content persisted on the file system.
- Enable encryption when available as part of a subsystem configuration. For example, since ODBC provides the capability to use strong encryption for data, it is recommended to have that option enabled.

Side-Channel Risks

Consider the following to mitigate side-channel risks:

- Ensure the latest application and operating system patches are applied.
- Ensure the latest firmware patches are applied for any hardware on-premises.

Server Requirements

The following table lists the server requirements for ALM.

Specification	Details
Hardware	As a minimum requirement, use a dual-core processor running at 2.0 GHz. The required minimum screen resolution is 1024 x 768. We recommend 1280 x 1024 SVGA.
Memory	Minimum 2 GB in addition to the memory recommended for the operating system.
Operating systems	• Windows 10 • Windows 11 • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 Note: Only 64-bit operating systems are supported.
Software	• Java Runtime Environment 8 Note: Please make sure to use a version that is appropriate for your operating system (64 bit). • Apache Tomcat 9. • Microsoft Visual C++ 2015 Redistributables (x64)
Database	• Oracle 19c • Microsoft SQL Server 2016 • Microsoft SQL Server 2017 • Microsoft SQL Server 2019
Web browsers	• Google Chrome • Mozilla Firefox • Microsoft Edge
Others	• Word position files: All training and test documents must be uploaded with word position files. For more information, refer to the <i>ALE Learnset Manager Admin Guide</i>. • ImageMagick 7.1.1-41 or 6.9.13-19 version. ImageMagick is recommended for best performance in image conversion. If ImageMagick is not installed, an internal converter is used.

Network Port Usage

This table lists the networking protocols for ALM.

Port	Usage
1521	Oracle
1433	SQL Server