

Liferay Digital Experience Platform 7.4

Datasheet

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Liferay Digital Experience Platform (DXP) 7.4 is software that both technical and non-technical users can leverage to deliver, optimize, and scale digital experiences rapidly across different channels for customers, employees, or partners. Built on a highly flexible architecture with portal, CMS, and B2B commerce capabilities, Liferay DXP 7.4 comes with enhanced functionality and exciting improvements that make it even easier to meet the needs of today's digital-first business teams.

For a full features list, please read the [Liferay DXP 7.4 Features Overview](#).

Key Benefits

Empower Digital Experiences

Empower practitioners to more easily build rich digital experiences. Improvements to the site building capabilities, like fragments and the content authoring experience, allow for greater flexibility to meet a variety of digital marketing needs. Enable business users to compose digital experiences using low or no-code capabilities. New low-code capabilities in Liferay DXP 7.4 make it easy to create powerful business applications, pages, and experiences that traditionally have required costly development.

Create Seamless B2B Buying and Servicing

Turn B2B purchasing into a seamless process for your customers. The improvements in Liferay DXP 7.4 allow users to improve site performance and internal efficiency to accelerate the purchasing process. Capabilities, like Accounts and Organizations, which have traditionally been restricted to Liferay Commerce are now a core part of Liferay DXP, expanding their use across many more B2B scenarios.

Optimize Digital Experiences with Data Driven Insight

Reduce the cost and effort needed to launch and maintain digital experiences with Liferay's out-of-the-box features. Improved tooling and new custom tracking in Liferay DXP 7.4 extends existing capabilities to support capturing interaction analytics on almost anything, making it even easier to understand what can be optimized.

Integrates With Everything

Integrate the systems that power the core of your business. Liferay DXP builds on our portal heritage with a set of comprehensive business components that can connect all of your systems and processes. Our platform is compatible with most things out there, even closed-source software. With Liferay DXP, you aren't limited to buying software from one massive vendor. APIs, web services, and messaging services make it easy to unite third-party software and legacy systems on Liferay DXP. Enhancements to Remote Apps allow for more flexible deployment into Liferay to make it even easier than ever to extend the platform and integrate with other systems without any need to deploy custom modules.

Flexibility for Your Business

Liferay DXP's suite of business tools and features allows you to leverage core technologies like portal servers and content management systems within one cohesive platform that is secure, scalable, and extensible. Liferay DXP includes a broad set of out-of-the-box features so you can set up the majority of what you need right away, then customize for your unique needs.

Organic Innovation

Liferay DXP is developed completely in-house, rather than through acquiring third-party solutions. Rely upon a comprehensive platform with a full suite of features that was designed from the start to work well together as the foundation for your digital strategy.

Feature Highlights

Segmentation, Personalization, and Optimization

Meet customer demands for meaningful and seamless experiences across touchpoints with robust segmentation and personalization tools. Continually improve these experiences with content and user insights provided by Liferay Analytics Cloud.

Enhanced Segmentation: Easily personalize anything on a page for different segments. Liferay DXP provides improved segmentation which includes a rule builder that can accommodate complex rules, session rules to target visitors based on cookies, device, or URL, and extension points for use case-specific segmentation rules. In addition, integrate advanced segmentation rules provided in Analytics Cloud. It is possible to reuse existing segments and combine them with complex rules to target new audiences. In DXP, this allows marketers to mix DXP and Analytics Cloud segments to create new and more powerful criteria.

Personalized Experiences: Once segments are defined, practitioners can create any number of Experiences for each page, with each Experience mapped to a user segment. Each page Experience can offer an entirely different set of content, fragments, widgets etc., to meet the specific needs of the target audience.

Content Recommendations: Automate personalization of content based on a user's past behavior powered by Liferay Analytics Cloud integration, such as behavior-based and interest-based recommendations.

Personalized Collections: Define content that can be reused through site pages and across different channels. Easily execute personalized variations to display different content depending on segmentation.

Analytics and Insights: Deliver the right content to the right audience with insights about your pages, content and users from Liferay Analytics Cloud. The latest version of Liferay DXP includes engagement and SEO metrics in the very context of the display pages.

A/B Testing: To identify the most successful variant of content or pages, A/B Tests can be created. Users are randomly directed to one of the variants, with their behavior - clicking on a clickable element or tracking the bounce rate - monitored in Analytics Cloud. Once the test is complete, the winning variant can be set as the default page presentation.

Search Engine Optimization: Marketers can map multiple metadata fields to each SEO and Open Graph meta tag to ensure that the desired information is indexed by Search Engines and reflected in Social Networking.

Page Audit: Liferay provides out-of-the-box integration with Google PageSpeed Insights to enable marketers and site builders to easily identify failing SEO elements and accessibility issues.

Search Experiences: Search Blueprints, a feature of the new Search Experiences application, enables search administrators to tweak Liferay's default search behaviour to build completely custom search algorithms using a no-code visual query builder. Each Blueprint consists of one or more elements which can boost results, hide results, and more, in addition to the creation of personalized search results.

Content Management

Leverage content management tuned for enterprise teams, with tools to better manage and deploy content to any digital channel.

Decoupled CMS: Because content management is detached from the front-end with an API, users can publish content across multiple channels freely without needing new front-end templates everytime. Developers can leverage the freedom of a headless system while business users still have the comfort of traditional content management tools.

Structured Content: Manage and create different content models as needed, to make sure your case-specific content management becomes a reality. This also includes an improved content authoring interface, and streamlined structured content authoring - both of which are based on the same builder used for Forms and Document Types. Structures provide easy visibility to web content usages and reusable collections. Web content authors also have the ability to preview content before it's published, at any stage in the workflow and can also preview with any desired template or within a specific page.

Auto-tagging: Liferay DXP enables content teams to work more efficiently by automatically adding tags to images, web content, and documents upon upload through a machine learning service for improved search.

Content Dashboard: Streamline the content audit process and minimize the effort of finding gaps in your company's content strategy execution. Content Dashboard is a one-stop-place where content authors can access all Web Contents and

Documents, not only for a given site, but for all the sites and asset libraries in a Liferay instance. Content Dashboard includes the Content Audit Tool to make it easier for content teams to run content audits.

Content Performance: Integration with Liferay Analytics Cloud provides on-page reports for all page types, that help users understand the content engagement level through metrics like the number of views and reads, as well as insights about the main traffic acquisition channels and keywords.

Content Promotion: Liferay DXP provides a variety of tools for content to be workflowed, staged, and deployed to production as required by your business use case.

Display Pages: For content-heavy sites, Display Pages provide a simple, but powerful approach to enable the automatic creation of a page for each Web Content, Document, Blog, and Category. Each asset obtains a friendly URL which, when accessed, displays the asset in a predefined Display Page Template ensuring consistent look and feel across all like assets.

Collections: Manually or dynamically define groups of information items, which can be displayed easily through Collections Pages, in the Collection Display fragment, and through Asset Publisher. Predefined and custom Collection Providers and Related Item Collection Providers provide pre-set but configurable collections like Most Viewed Assets, Related Assets, and so on.

Information Templates: Use freemarker-based scripts to ensure uniform presentation of information for Web Contents, Documents, Blogs, Categories, and Assets. Templates can render an entire item, or as little as an individual field, and can easily be mapped to Fragments when designing pages.

Automated Translation: Web Contents and Pages can be automatically translated using out of the box integration to ML-based Translation Services like Google Translate.

Digital Asset Management

Enterprise DAM: Efficiently organize and share enterprise assets on one central system with features such as bulk editing and tagging, peer-to-peer document and asset sharing and editing, automatic versioning policies and integrated online document editing with Google Docs and Office 365.

Documents and Media: The Documents and Media repository supports the storage of any type of digital file, provides auto-generated thumbnails, video and audio previews, and can link to video content stored in YouTube, Facebook, Vimeo, and Twitch.

Asset Libraries: Asset Libraries allow the creation of distinct collections of Assets (Web Content, Documents etc.) to support sharing across multiple sites, as well as task-based content and asset management - for example collections of assets for a specific campaign.

Experience Management

Build and customize digital experiences that are tailored for your users' needs easily with the following capabilities on Liferay DXP.

Fragments: Easily and quickly build new pages with designed, reusable components. Fragments use in-line editing to change text and images and map to content fields and templates, and can be tailored for, or even hidden from, specific display viewports. Page authors can save their own Composed Fragments from any deployed collection of fragments, while Developers can create custom fragments composed of HTML, CSS, and Javascript.

In-Context Creation: Drag and drop to create page layouts with content, fragments, and widgets. Business users can even define complex custom page layouts with Master Pages. In addition, map content to individual sections with information templates. Integration with Analytics Cloud also helps provide insight into users, referrals, and engagement.

Widgets: Empower business users to drag and drop from a generous collection of out-of-the-box widgets for different business needs that can be easily added to any page, including a JavaScript widget creator that can easily build front-end apps using the latest libraries through a CLI tool.

Site Navigation: Create any number of flexible menus from Pages, URLs, Submenus, and Display Pages, then incorporate these easily into pages using the Menu Display, or even construct mega menus using the Dropdown fragment.

Multichannel Support

From storefront to mobile to IoT, reach customers wherever they are with multichannel experiences that can adapt to your channels and target segments with ease.

Headless APIs: Give front-end developers headless freedom from back-end conventions and structures. Developers can now focus on building great experiences and do it simultaneously alongside content teams using content delivery, management, and participation APIs built on the OpenAPI and GraphQL standards.

Adaptive Media: Liferay DXP dynamically adjusts images to best fit the screen size and network speed of each device, addressing experience and performance issues for all page types and for Products.

Mobile Support: Rapidly develop native and hybrid apps, create mobile experiences and define mobile device rules using Liferay DXP as a mobile back end.

Integration and Interoperability

Liferay DXP can integrate across multiple back-end systems for a unified user experience.

Improved Frontend Toolkits: Liferay JS Themes, Bundle, and Fragment Toolkits help developers create, update, and maintain themes built on Liferay DXP as well as help produce an OSGi bundle containing the needed NPM dependencies to ensure that it runs when deployed to Liferay DXP.

Integration Framework: Liferay DXP is a central presentation layer platform for integrating content and services from back-end or legacy applications. Liferay DXP supports multiple methods to integrate, including SOAP, REST, RSS, as well as proprietary APIs.

Upgrade Tool: A revamped Upgrade Tool simplifies the upgrade process from previous versions of Liferay, reducing the amount of time spent troubleshooting.

REST API Builder: This tool helps accelerate development by generating scaffolding needed for business logic used for custom REST and GraphQL APIs.

Remote Apps: Micro frontends may be registered, and become full functioning widgets either through iframes or as custom Web Components. The JS Client SDK enables communication between the app and Liferay, providing user details, access to styling, APIs, and more.

DocuSign and Click-to-Chat: Liferay provides out-of-the-box integration with DocuSign, for electronic document signature processes, and 10 popular click-to-chat providers. Administrators simply configure the system with the required provider login/ID details, and the integration even supports different chat providers on different sites.

Forms, Workflows, and Business Process Automation

Accelerate and streamline business processes with robust features for creating objects, forms and workflows, and for managing accounts.

Objects: Create and manage the Data Model, Relationships, Layouts, and Actions for custom and native objects, to build and deliver unique business applications without the need to develop any custom code. Map Objects to Forms to enable

users to gather data for the object. Each Object auto-generates a Collection Provider to enable the results to be presented by mapping objects to Fragments and Pages. Each Object also auto-generates REST APIs to enable full CRUD interaction from multiple channels.

Form Creation and Rules: Design forms for everything from business process automation to replacing complex paper applications. Create personalized forms with conditional rules, which allows users to introduce dynamic behavior in forms.

Forms Reports & Analytics: Leverage a built-in summary report of the answers received in a Form, allowing users to not only see the data collected, but also have an overall analysis of answers of each field according to the field type. Use Liferay Analytics Cloud to understand form effectiveness - with metrics on completion, abandonment rate, and form completion progress.

Data Engine APIs: Use data engine APIs to help build flexible business applications. Execute CRUD operations on data definitions to quickly assemble business applications that can scale with flexibility.

Organization and User-Driven Workflows: Define any number of simple to complex business processes or workflows, leveraging users, groups, and roles defined in Liferay DXP with a graphical workflow designer. In addition to these organization-wide workflows, users can create individual workflows based on their own requirements.

Workflow Metrics: Gain insight into how long certain workflow events take to complete, with options to filter by Workflow Version. Users can create SLAs to set deadlines on a workflow process's events. Once defined, Workflow Reports can measure compliance with SLAs to help users better understand the throughput performance of processes in a given timeframe and better optimize these processes. Reports can be sorted by Item Subject, Created Date, Created By, Due Date, and Assignee.

Accounts: Accounts empowers both sides of the B2B space by providing companies' a central entity from which to conduct business on Liferay DXP. Accounts provides a digital construct to model and manage the personnel and their respective roles, manage business-critical information (such as Tax ID, Addresses), and ultimately facilitate stellar service experiences through enablement of the various interactions between these businesses.

See a complete list of features on [page 10](#).

Liferay DXP's Modular Core

Liferay DXP leverages a modular core, with benefits that include:

Standards Based Customization: Less reliance on underlying app server technology makes it easier to create applications and extensions that now follow an OSGi based approach.

Incremental Release Cycles: New features and bug fixes can be released on an as-needed basis, eliminating the need to wait for major version releases.

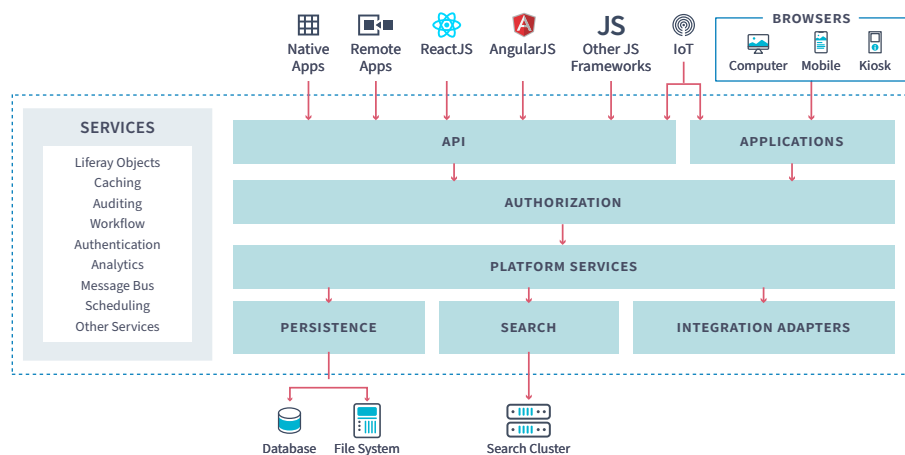
Reliable Deployment: Deploying modules is now independent of underlying app server technology, leading to fewer deployment issues and fewer server restarts.

Modern Development: Leverage modules that are smaller and more concise than legacy portlet plugins. Rest assured since Liferay uses industry-based development standards such as OpenAPI, Portlet 3.0, etc.

Dynamic Dependency Resolution: Modules have built-in dependency resolution, which makes it easier to determine what dependencies the application needs to run and minimizes severe consequences from conflicts during deployment.

Authentication: Be assured that only appropriately authenticated users are accessing the system with both a native user repository as well as support for key security standards and frameworks like SAML, OpenID Connect, LDAP, etc. Multi-Factor Authentication (MFA) is supported out of the box, including email-based one-time-password (OTP), time-based OTP, custom factors, and support for FIDO 2.0 hardware devices.

Authorisation: Liferay's granular roles and permissions capabilities ensure that authenticated users can only access information they have permissions for, whether they are accessing through the UI or via APIs. Support for OAuth 2.0 allows authorization across systems and devices.



Liferay DXP Product Architecture

Deployment Compatibility

Operating Systems

Alpine Linux
CentOS
Debian
IBM AIX
Oracle Linux
Oracle Solaris
Red Hat Enterprise Linux
SUSE
Ubuntu
Windows Server

Public and Private Clouds

Liferay DXP is deployable to the cloud and virtualized environments.

Application Servers

JBoss EAP
Tomcat
WebSphere
Wildfly

Databases

DB2
MariaDB
MySQL
Oracle
PostgreSQL
SQL Server

Contact sales@liferay.com for the latest list of supported configurations and versions.

Key Components

Analytics and Optimization

Insights

Page analytics	Content Performance Analytics	CSV Data Sources	A/B testing
Path analytics	Customer Profiles	Dynamic segments	Custom Events
Asset analytics	Salesforce Integration	User Identity Services	

To see how Liferay Analytics Cloud further supports DXP see: liferay.com/products/analytics-cloud.

Cloud Capability

Application Management

Log management
Shell access
Autoscaling
Backup and restore
Environments management
Environment variables
Custom domains

Development Lifecycle

Continuous Integration
Continuous Deployment
Zero downtime deployments
GitHub integration
Dependency management
Persistent file system
Port configuration

Performance and Availability

HTTP/2
SSD
Self-healing
Multi-AZ database instance

Monitoring

Usage (CPU, memory and data transfer)
Health
Advanced monitoring with Dynatrace Software Intelligence
Real-time alerts

Governance

Access control
Secrets
Team activities

Security

Private network
Public/private access
HTTPS
Database with encryption at rest
VPN connection

To see how Liferay DXP Cloud further supports DXP see: liferay.com/products/dxp-cloud.

Collaboration and Social

Shared Features

WYSIWYG Text Editor
Ratings/Comments
RSS feeds
Categories/Tags
Related assets
Reader subscriptions
Similar Results

Wikis

Versioning and reversion
Creole, HTML or Plain Text syntax
Attach files
Threaded comments
Inline image editing

Blogs

Recent blogs lists
Badge icon for social activity
Inappropriate content flagging
Friendly URLs
Blogs Display Pages
Estimated reading time
Embedded videos
Inline image editing

Message Boards and Forums

Recent Posts list, My Posts list
Reader subscriptions
Anonymous posting
File Attachments
Support for categories/threads reorganization
Inappropriate content flagging
Inline image editing
Questions

Social Networking

Friends list
Activity wall
Activity tracker
Social Activity
Tagging

Calendar

iCal and microformats support
Personal and group
Task lists
Resource scheduling
Email, IM or SMS event reminders

Alerts/Announcements

Broadcast news or status
Scheduled start/stop
Site or role based targeting

Content Management

Headless CMS

Headless REST and GraphQL APIs

Content Creation

WYSIWYG Text Editor

FreeMarker Templates: Web Content, Documents, Blogs, Assets, Categories

Global content sharing between sites

Content sharing in site hierarchy

Reusable Collections

Predefined and Custom Collection Providers

Related Items Collection Providers

Content sharing with Asset Libraries

Automatic ML-based Content and Page Translation

XLIFF 1.2 / 2.0 export & import

Site Content Sharing, Publishing, Optimization

Dynamic and static site templates

Drag and drop site maps

Sitemap protocol support

Friendly page URLs

Remote server staging and scheduling

Multiple site variations/versions

Collaborative change-based publications

Recycle bin

User customizable pages

Content performance analytics

Content Audit Tool

SEO and accessibility page audit with Google PageSpeed Insights

URL Redirections management

OpenGraph support

Digital Asset Management (DAM)

Multi-repository support

Customizable document types

Metadata per document type

CMIS support

Check in/check out

Content previews

Live preview

Automatic content versioning

Bulk tag management

Image and content ML-based auto-tagging

Online document editing with Google Docs and Office 365

Peer-to-peer document and asset sharing

Document Types, Metadata Sets, Display Pages

Preview Generation

Versioning

Media Selector

YouTube, Vimeo, Facebook, Twitch video embedding

Theming and Layout

JCSS framework: Twitter Bootstrap

HTML 5.0 compliant

Style Books

Responsive mobile

Adaptive Media

Master Pages

Multiple page layout templates

Enterprise File Sync and Sharing

WebDAV

Integration

Google Docs integration

Microsoft Office® integration

Office 365 integration

Experience Management

Experiences

Fragment library

Fragment Editor

Composable Fragments

FreeMarker Templates

Fragments Toolkit CLI

In-line content editing

Widgets

Drag-and-drop interface

Widget library

Pages

Personalized experiences per segment

Display page templates

Search engine optimization

OpenGraph support

Analytics Cloud integration

Navigation Menus

Auto-generated Page Hierarchy

Custom Menus - Pages, Display Pages, Sub-Pages, URLs

Forms, Workflow and Business Process Automation

Liferay Objects

OBJECT CREATION

No-code object builder
Add fields to define data model
Specify object relationships
Determine deployment location
Create customized layouts
Create actions triggered by Create, Update, Delete events
Map Forms to Objects to gather data
Display data using Collections, Fragments, Display Pages
Access object using auto-generated Object APIs
Integrated with Workflow, Permissions, Search, Forms, Assets, Info Framework, Fragments

OBJECT RELATIONSHIPS

Define relationships to Custom or Native Objects
One to Many
Many to Many

OBJECT FIELDS

Big Decimal
Boolean
Date
Double
Integer
Long
Picklist
String

Forms

FORM CREATION

Autocomplete
Multi-page forms
Configured success page
Field Groups
Hidden fields
Repeatable fields
Confirmation fields
Field masking
Duplicate fields / field groups
Clone forms
Autosave
Import/export data provider definitions
Localization
CAPTCHA enablement
User authentication
Translations/multi-language support
Data provider integration

Reports with Liferay Analytics Cloud

Page Reordering

FORM MANAGEMENT

Shareable form URLs
Redirect after form submission
Workflow integration
Email notification
Versioning
Element sets
Validation
Data storage
Form Reports

FORM FIELDS

Paragraph
Text field
Select from list
Single selection
Date
Multiple selection
Grid
Numeric
Upload
Color
Image
Rich Text
Boolean
Search Location

CONDITIONAL RULES

Require
Enable
Autofill
Show/hide
Jump to page
Calculation
Belong to
API for customized rules

Data Engine APIs

Data Definitions
Data Layouts
Data Records
Data Record Collections
Taglib
Fieldsets
Search Data Records
Search Data Layouts
Version Attributes
Scope Data Definitions
Localizable Data Records
Nest fields

Dynamic Data Lists

Boolean
Color
Date
Decimal
Documents and Media
Geolocation
HTML
Integer
Link to page
Number
Radio
Select
Text
Text box
Web content
Localization

Workflow

Define workflows per document type and folder
Versioning and reversion
Drafts
Localization
Duplicate workflows
Preview revisions
User notifications
Model workflows with a graphical interface or by writing XML definitions

Workflow Metrics

Overview of Pending Items by SLA Status
Workload by Assignee
Workflow by Step
Overview of Completed Items by SLA Status
Completion Throughput
Assignee Performance
Step Performance

Accounts

Support B2B activities on Liferay DXP

Business, Guest, People accounts

Account Metadata
Tax IDs

Billing and Shipping addresses

Associate with Users, Organizations

Create Account Groups, Roles

Integration and Interoperability

Foundation

Integration framework

Workflow Framework

Upgrade Tool

Custom fields

Service Builder

REST Builder

Modularity

Remote Apps

DocuSign integration

Click-to-Chat integration (10 providers)

Developer Tools

Integrated development/test environment

Front-end toolkits

Liferay Marketplace

Liferay Workspace

Blade CLI

Developer Studio

Java

JSF

Clay

Groovy

JQuery

Twitter Bootstrap

ReactJS

AngularJS

Senna.js

Vaadin

Ruby, Scala, and others

Theme Developer Languages

FreeMarker

Clay / Lexicon

Multichannel Support

Headless

Headless APIs

REST APIs

GraphQL APIss

Mobile Support

Mobile device rules

Previews within browser

Responsive theme

Device recognition

Eclipse-based Mobile SDK

Platform Support

iOS

Android

Adaptive Media

Control image resolution and size per device

Enable/disable rules

Automatic optimization

Integrated into Content Pages, Products

Segmentation and Personalization

Segmentation

Analytics Cloud integration

Combine Analytics Cloud and DXP Segments

Sophisticated Segment builder

Segmentation Rules (DXP)

BEHAVIOR

Content visited

Page visited

Score based on content and pages visited

Use case-specific

USER ATTRIBUTES

Date Modified

Date of Birth

Email Address

First Name

Job Title

Last Name

Regular Role

Screen Name

Site

Site and Organization Role

Tag

ORGANIZATION ATTRIBUTES

Country

Date Modified

Hierarchy Path

Name	Last Sign In Date	INDIVIDUAL ATTRIBUTES	SESSION ATTRIBUTES
Organization	Local Date	Additional Name	Geolocation
Parent Organization	Referrer URL	Address	Referrer
Region	Additional Segmentation Rules (Analytics Cloud)	ClassPK	Date & Time
Tag	EVENTS	Contact ID	URL
Type	Downloaded Documents & Media	Create Date	INTERESTS
SESSION ATTRIBUTES	Submitted Form	Email	Generated through usage
Browser	Viewed Form	Gender	Personalization
Cookies	Viewed Page	User ID	Define unique page Experiences for each Segment
Device Brand	Commented on Blog		Content recommendations (powered by Analytics Cloud)
Device Model	Viewed Blog		Personalized reusable Collections
Device Screen Resolution Height	Viewed Documents & Media		
Device Screen Resolution Width	Viewed Web Content		
Language			

Platform Services

Performance and Scalability	Other Standards/ Technologies	Admin Workflow	Other Back-End APIs
Clustering at any combination of tiers (presentation, service, business logic and database)	AJAX	Batch Engine	Asset
Advanced caching (e.g., Ehcache)	JSR-362 (Portlet 3.0)	Bulk	Cache
Performance monitoring support (JMX, Java profiling and more)	JSR-344 (JSF 2.2)	Content Delivery	Comments
Single page applications	Spring 3.0	Data Engine	Data handlers
Simplified UI	CMIS 1.0/1.1	Form	File storage
Multitenancy	Hibernate collection of projects	Object Admin	Membership policies
Dynamic virtual hosting	OSGi Core 6.0	Portal Instances	Message bus
	Headless REST APIs	Segments	Permissions
	Admin Content	Workflow Metrics	Ratings
	Admin List Type	GraphQL Endpoint	Recycle bin
	Admin Tagonomy	Custom Objects (family per object)	Scheduler
	Admin User		Scripting
			Upgrade
			Workflow

Search

Search Tools

Elasticsearch integration	Faceted search	Search Tuning: Result Rankings	Search Experiences
Site search - Content, Pages, Assets, Info Items	Filter/sort	Search Tuning: Synonyms	Blueprints
External Index search	Multi-language search	Search Widget Templates (Freemarker)	Low-level search APIs
Multi-tier search	Search administration tools		

Security Administration and Access Control

Security	Access Control	Identity Management Support	Multi-factor Authentication
Government-grade encryption	CORS (Cross-origin resource sharing)	LDAP	Email-based one time password (OTP)
Pluggable authentication	OAuth 2.0	SAML	Time-based one time password (TOPT)
Email verification	Service Access Policies	OpenSSO / OpenAM	IP-based
Granular permissioning		SiteMinder	Custom Factors
LDAP authentication		Facebook Login	FIDO 2.0
Session management		CAS	Web Services
Data protection for GDPR compliance		OpenID Connect	SOAP
User activity Auditing			JSON
			REST

What's Next

Get Started With Liferay University

Liferay offers free access to Liferay University to active Liferay DXP subscribers. Equip your entire team with self-paced lessons and courses so that they can learn how to use Liferay anytime, anywhere on their own schedule. Gain access to courses for content managers, back-end and front-end developers and system administrators.

Learn more at university.liferay.com

Put Liferay DXP to the Test

Explore the possibilities of Liferay DXP free for 30 days. Our trial includes access to professional documentation, exclusive Liferay Marketplace apps and more.

Get started at liferay.com/dxp-trial



Liferay makes software that helps companies create digital experiences on web, mobile and connected devices. Our platform is open source, which makes it more reliable, innovative and secure. We try to leave a positive mark on the world through business and technology. Hundreds of organizations in financial services, healthcare, government, insurance, retail, manufacturing and multiple other industries use Liferay. Visit us at liferay.com.

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