

Liferay Digital Experience Platform 7.2

Datasheet

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Liferay Digital Experience Platform (DXP) 7.2 is software to create and manage digital experiences across web, mobile and connected devices. Built on a highly flexible architecture with portal, CMS and collaboration capabilities, Liferay DXP can be customized to meet the needs of today's digital-first business teams to deliver personalized experiences rapidly across channels for employees, customers or partners.

For a full feature list, please read the [Liferay DXP 7.2 Features Overview](#).

Key Benefits

Personalization at Scale

Achieve greater control over managing personalized experiences across multiple touchpoints for rapid delivery of user experiences. Business users can easily define audience segments with robust rules for fine-grained personalization and engage these segments with a range of personalized experiences across pages, navigation and assets. Automate content personalization based on user behavior with interest-based content recommendations.

Increased Headless Freedom

Leverage a decoupled CMS with improved APIs that give developers the benefits of headless freedom with traditional CMS-like management for the business user. This hybrid approach offers the best of both worlds to enterprises looking to efficiently deliver experiences at scale.

Streamlined Business Processes

Gain end-to-end visibility on critical business processes with workflow reports and real-time workflow analytics. Working from shared data across systems, employees can implement initiatives to improve services and give other departments the insight they need to make operations run better. Back office operations are further enhanced with peer-to-peer document sharing and open data engine APIs designed to help developers build more flexible business applications.

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.

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 and Personalization

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. The latest release of 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 Liferay Analytics Cloud.

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 Content Sets: 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.

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 every time. 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, streamlined structured content authoring, easy visibility to web content usages and reusable content sets. 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.

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.

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. Create fragments with out-of-the-box elements and component sets. Fragments use in-line editing to change text and images and can incorporate Liferay DXP applications for advanced functionality.

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 the new section builder. In addition, map content to individual sections with display page 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.

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.

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

Mobile Support: Rapidly develop native 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 will help accelerate development by generating scaffolding needed for business logic used for custom REST APIs.

Forms, Workflows and Business Process Automation

Accelerate and streamline business processes with robust features for creating forms and workflows.

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.

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 Process Analytics: Define any number of simple to complex business processes or workflows, leveraging users, groups, roles and due dates for specific tasks within the workflow process. Use progress analytics to see the status of all open tasks within the workflow process in real-time.

See a complete list of features on page 7.

Liferay DXP's Modular Core

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

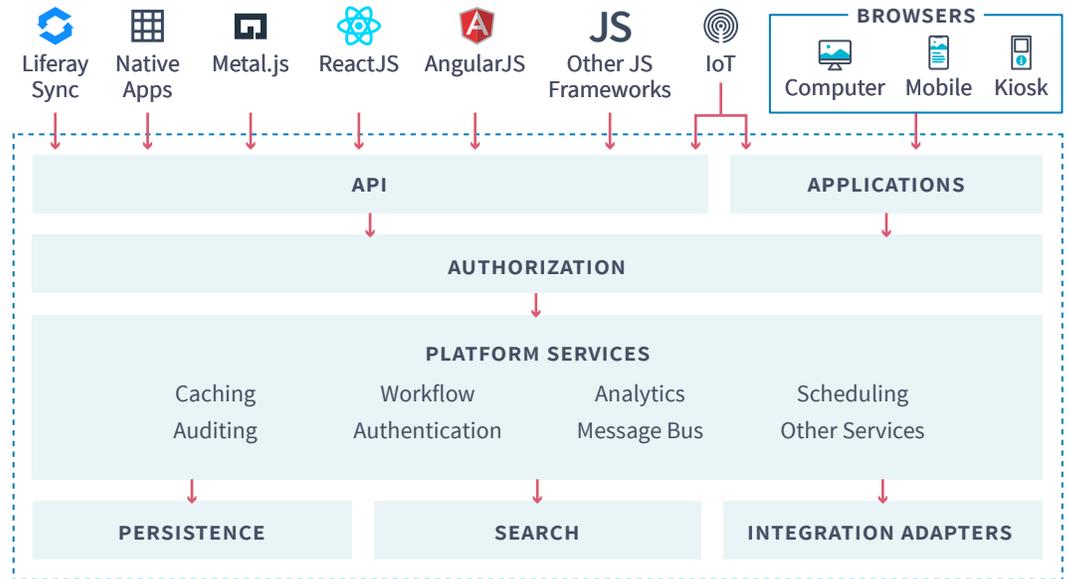
Standards Based Customization: Less reliance on underlying app server technology makes it easier to create applications and extensions that now follow an OSGi based approach.

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.



Deployment Compatibility

Operating Systems

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
tcServer
Tomcat
WebLogic
WebSphere
Wildfly

Databases

Amazon Aurora
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	Asset analytics	Dynamic segments	A/B testing
Path analytics	Customer Profiles	User Identity Services	

See how Liferay Analytics Cloud further supports DXP: 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

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

Collaboration and Social

Shared Features

AlloyEditor
Ratings/Comments
RSS feeds
Categories/Tags
Related assets
Reader subscriptions

Polls

Bookmarks

Wikis

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

Blogs

Recent blogs lists
Badge icon for social activity
Social bookmarks
Inappropriate content
flagging
Friendly URLs
Estimated reading time
Embedded videos
Inline image editing
Microblogs

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
Social Networking
Friends list
Activity wall
Activity tracker
Social Activity
Tagging

Calendar

AJAX-based interface
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

REST and headless APIs

Content Creation

AlloyEditor
Templating: FreeMarker
Global content sharing
between sites
Content sharing in
site hierarchy
Reusable content sets

Themes and Layout

JavaScript framework:
Metal.js
CSS framework: Twitter
Bootstrap
HTML 5.0 compliant
Responsive mobile theme
Multiple page
layout templates

Site Content Sharing and Publishing

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
Faceted search
Recycle bin
User customizable pages
Content analytics

Enterprise DAM and EFSS

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
auto-tagging
Online document editing
with Google Docs
Peer-to-peer document
and asset sharing

DAM and EFSS Integration

Document types and
metadata sets
Preview generation
Search
Versioning
Media Selector
**Enterprise File Sync
and Sharing**
Mobile/desktop file
synchronization using
Liferay Sync
WebDAV
Integration
Google Docs integration
Microsoft Office© integration
Office 365™ integration

Experience Management

Experiences

Fragments with editor
Fragments Toolkit

Widgets

Drag-and-drop interface
Widget Library

Pages

Display page templates
Search engine optimization
Analytics Cloud integration

Forms, Workflow and Business Process Automation

Form Creation

Autocomplete
Multi-page forms
Configured success page
Duplicate fields
Clone forms
Autosave
Import/export data
provider definitions
Localization
CAPTCHA enablement
User authentication
Translations/
multi-language support
Data Engine APIs
Data provider integration
Reports with
Liferay Analytics Cloud

Form Management

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

Form Fields

Paragraph
Text field
Select from list
Single selection
Date
Multiple selection
Grid
Numeric
Upload

Conditional Rules

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

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

Integration and Interoperability

Foundation

Integration framework
Workflow framework
Upgrade Tool
Custom fields
REST API Builder
Modularity

Developer Tools

Integrated development/
test environment
Front-end toolkits
Liferay Marketplace
Liferay Workspace
Liferay Connected Services
(LCS)
Blade CLI

Developer Studio

Java
JSF
Clay
Groovy
JQuery
Twitter Bootstrap
Metal.js
ReactJS
AngularJS
Senna.js
Vaadin
Ruby, Scala and others

Theme Developer Languages

FreeMarker
Lexicon

Multichannel Support

Headless

Headless APIs
REST APIs

Mobile Support

Mobile device rules
Previews within browser
Responsive theme
Device recognition
Eclipse-based Mobile SDK
Service Builder
Push notifications
Mobile Sync app

Platform Support

iOS
Android
Cordova
Xamarin.iOS
Xamarin.Android
Adaptive Media
Control image resolution
and size per device
Enable/disable rules
Automatic optimization

Native and Hybrid App Development with Liferay Screens

Log in
Sign up
Forgot Password
User portrait
DDL form
DDL list
Asset list
Web content display
Web content list
Image gallery

Rating

Comment List
Comment Display
Comment Add
Asset Display
Blogs entry display
Image display
Video display
Audio display
PDF display
File display
Web page display

Personalization and Context Awareness

Segmentation

Liferay Analytics Cloud integration

Personalize experiences with page editor

Content Targeting

Content recommendations powered by Analytics Cloud

Personalized reusable content sets

Segmentation Rules

BEHAVIOR

Content visited

Page visited

Score based on content and pages visited

FACEBOOK PROFILE

Age

City

Education

Friends

Gender

Page likes

USER ATTRIBUTES

Age

Gender

Regular role

Site membership

Site role

Organization membership

Organization role

User group membership

Currently signed in

User created date

User last login date

Language

IP

Custom fields

SESSION ATTRIBUTES

Browser

Cookies

Device

Location

Operating system

URL

Platform Services

Performance and Scalability

Clustering at any combination of tiers (presentation, service, business logic and database)

Advanced caching (e.g., Ehcache)

Performance monitoring support (JMX, Java profiling and more)

Single page applications

Simplified UI

Multitenancy

Dynamic virtual hosting

Other Standards/ Technologies

AJAX

JSR-362 (Portlet 3.0)

JSR-344 (JSF 2.2)

Spring 3.0

CMIS 1.0/1.1

Hibernate collection of projects

OSGi Core 6.0

SAML 2.0

OAuth 1.½

Other Back-End APIs

Asset

Cache

Comments

Data handlers

File storage

Membership policies

Message bus

Permissions

Ratings

Recycle bin

Scheduler

Scripting

Upgrade

Workflow

Search

Search Tools

Elasticsearch integration	Multi-tier search	Low-level search APIs
Faceted search	Multi-language search	Search administration tools

Security Administration and Access Control

Security

Government-grade encryption
Pluggable authentication
Email verification
Granular permissioning
LDAP authentication
Session management
Data protection for GDPR compliance

Identity Management Support

LDAP
SAML
OAuth
OpenSSO / OpenAM
SiteMinder
Facebook Login
CAS
OpenID Connect

Web Services

SOAP
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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