Liferay Digital Experience Platform 7.3

Datasheet



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Liferay Digital Experience Platform (DXP) 7.3 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 features list, please read the Liferay DXP 7.3 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. From 7.2 release, 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. From Liferay CE/DXP 7.3, it is possible to reuse existing segments and combine them with complex rules to create new audiences. In DXP, this allows marketers to mix DXP and Analytics Cloud segments to create new and more powerful criteria.

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. The latest version of Liferay DXP includes engagement and SEO metrics in the very context of the display pages.

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, streamlined structured content authoring, 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.

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.

Content Audit Tool: Streamline the content audit process and minimize the effort of finding gaps in the content strategy execution by easily selecting the vocabularies whose contents need to be audited. Out-of-the-box Audience, Stage and Topic Global Vocabularies provide a more systematic categorization throughout sites.

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.

Asset Libraries: Organize content in dedicated libraries to help reuse content across different sites and have better-isolated control on them. Connect the asset libraries only to the sites where it is needed to provide access so content authors can use the assets stores while creating a page, or writing a blog post.

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 turn key 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 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 will help accelerate development by generating scaffolding needed for business logic used for custom REST and GraphQL APIs.

Remote Applications: Micro frontends, created in any language, may be registered, and become full functioning widgets.

Forms, Workflows and Business Process Automation

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

App Builder: Empower business users with an intuitive GUI to define forms and table views to build applications and digitize business operations. Applications can be deployed in standalone fashion or added to pages as a widget or through the product menu.

Process-Driven Apps: Automate business processes by creating workflow powered Apps. Define the stages of the process and specify which information should be requested and/or displayed in each step of the application. Users can also make use of Workflow Metrics to understand the performance and health of the App's processes.

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: 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.

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 8.

Liferay DXP's Modular Core

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

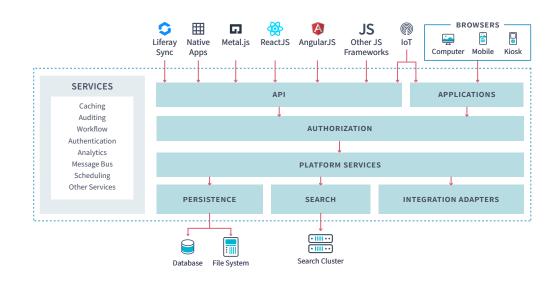
Standards Based Customization: Less reliance on underlying app server technology makes it easier to create applications and extensions that now follow an OSGi based approach.

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.



Liferay DXP Product Architecture

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 Path analytics

Asset analytics Content Performance Analytics Customer Profiles Dynamic segments User Identity Services A/B testing

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

Cloud Capability

Governance		
Access control		
Team activities		

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

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

Collaboration and Social

Content Management

Headless CMS

Headless REST and GraphQL APIs

Content Creation

AlloyEditor

Templating: FreeMarker

Global content sharing between sites

Content sharing in site hierarchy

Reusable collections

Content sharing with asset libraries

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 performance analytics

Content Audit Tool URL Redirections management

OpenGraph support

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 and Office 365

Peer-to-peer document and asset sharing

DAM and EFSS Integration

Document Types and Metadata Sets

Search Versioning Media Selector

Preview Generation

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

Personalized experiences per segment Display page templates Search engine optimization Analytics Cloud integration

Forms, Workflow and Business Process Automation

App Builder Custom Objects Form Views Table Views Standard Apps Form View Rules Fieldsets Fixed Filters Localization Standalone Deployment Product Menu Deployment Widget Deployment **Process-Driven Apps** Custom Object Table View

Linear Process Steps Task assignment Data and Views Transition Actions In-App Task Assignment



In-App Transitions Standalone Deployment Product Menu Deployment Widget Deployment **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 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 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 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

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

(LCS)

- Liferay Connected Services Blade CLI
- **Developer Studio** Java JSF Clay Groovy JQuery **Twitter Bootstrap** Metal.js ReactJS

Text

AngularJS Senna.js Vaadin Ruby, Scala and others **Theme Developer** Languages FreeMarker Lexicon

Multichannel Support

Headless APIs REST APIs GraphQL 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 Video display PDF display File display

Personalization and Context Awareness

Audience Targeting	Segmentation Rules	USER ATTRIBUTES	SESSION ATTRIBUTES
User segmentation	BEHAVIOR	Age	Browser
Time bound campaigns	Content visited	Gender	Cookies
Campaign prioritization	Page visited	Regular role	Device
Personalized and targeted content	Score based on content	Site membership	Location
	and pages visited	Site role	Local Date
Custom reporting and	Use case-specific	Organization membership	Referrer URL
data export	FACEBOOK PROFILE (AUDIENCE TARGETING)	Organization role	Request Parameters
Segmentation		User group membership	Operating system
Analytics Cloud integration	Age	Currently signed in	URL
Personalize experiences with page editor	City	User created date	CONTENT TARGETING
	Education	User last login date	Content recommendations
	Friends	Language	powered by Analytics Cloud
	Gender	IP	Personalized reusable
	Page likes	Region	content sets
		Тад	

SegmentsCustom fields

Platform Services

Performance and Scalability	Other Standards/ Technologies	Other Back-End APIs Asset	Upgrade Workflow
Clustering at any combination of tiers (presentation, service, business logic and database) Advanced caching	AJAX JSR-362 (Portlet 3.0) JSR-344 (JSF 2.2)	Cache Comments Data handlers	
(e.g., Ehcache) Performance monitoring	Spring 3.0 CMIS 1.0/1.1	File storage Membership policies	
support (JMX, Java profiling and more)	Hibernate collection of projects	Message bus	
Single page applications	OSGi Core 6.0	Permissions Ratings	
Simplified UI Multitenancy	SAML 2.0 OAuth 2.0	Recycle bin	
Dynamic virtual hosting		Scheduler Scripting	

Search

Search Tools

Elasticsearch integration Solr integration Multi-tier search Faceted search Filter/sort Multi-language search Search administration tools Search Tuning: Result Rankings Search Tuning: Synonyms Low-level search APIs

Security Administration and Access Control

Security	Access Control	CAS
Government-grade	CORS	OpenID Connect
encryption	(Cross-origin resource	Multi-factor Authentication
Pluggable authentication	sharing) Web Services	Web Services
Email verification	OAuth 2.0	SOAP
Granular permissioning	Service Access Policies	JSON
LDAP authentication	Identity Management Support	REST
Session management		
Data protection for GDPR	LDAP	
compliance	SAML	
	OpenSSO / OpenAM	
	SiteMinder	
	Facebook Login	

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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