Oracle® Fusion Middleware

What's New in Oracle WebLogic Server



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Oracle Fusion Middleware What's New in Oracle WebLogic Server, 26.1.0.0.0

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Preface

This document describes new features for all components of Oracle WebLogic Server 26 (26.1.0.0.0).

Audience

System administrators and operators responsible for monitoring and managing a WebLogic Server installation should use this document as a resource for understanding new features for all components of Oracle WebLogic Server 26 (26.1.0.0.0).

This document is relevant to all phases of a software project, from development through test and production phases.

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

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Convention	Meaning
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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What's New in Oracle WebLogic Server 26.1.0.0.0

This document describes the new features and changed functionality in the Oracle WebLogic Server 26.1.0.0.0 release.
Oracle WebLogic Server 26 (26.1.0.0.0) includes the following new and updated functionality:

- JDK 21 and 25 Certification
- Jakarta EE 11 Support
- Jakarta Data and Jakarta NoSQL Integration
- Jakarta MVC 3.0 Support
- Spring 7.x and Hibernate 7.x Support
- Certificate Management Service
- Domain-wide Application Deployment-State REST Resource
- Feature Compatibility Security Gates and Enhancements
- FIPS 140-3 Support
- Deploying Exploded Applications and Application Installation Directories with REST

The following sections describe these features, upgrade improvements, and supported standards and configurations.

JDK 21 and 25 Certification

Oracle WebLogic Server 26 (26.1.0.0.0) supports JDK 21 and JDK 25.

See Oracle Fusion Middleware Supported System Configurations for the JDK versions certified with this release. Supported WebLogic Server clients are certified for use with JDK 21 and JDK 25. A certified JDK is required for running the WebLogic Server installation program.

JDK 21 introduces features, optimizations, and bug fixes that can enhance the performance and stability of your applications, including a key encapsulation mechanism API, and previews of string templates and structured concurrency.

JDK 25 builds on these capabilities with improved Java Flight Recorder diagnostics, compact object headers, ahead-of-time caching and method profiling, scoped values, and a key derivation function API. It also incorporates improvements introduced since JDK 21, including reduced virtual-thread pinning and garbage collection optimizations. These enhancements can reduce memory consumption, accelerate startup and warmup, and improve application scalability and troubleshooting. JDK 21 and JDK 25 are long-term support releases of the Java SE Platform.

See the following topics:

- The Oracle Fusion Middleware Supported System Configurations page on Oracle Technology Network.

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- The Java Downloads page on Oracle Technology Network from which Oracle JDK 21 and JDK 25 are available, including release notes and installation instructions: https://www.oracle.com/java/technologies/downloads/.
- Roadmap for Verifying Your System Environment in *Installing and Configuring Oracle WebLogic Server and Coherence*.

Jakarta EE 11 Support

Oracle WebLogic Server 26 (26.1.0.0.0) is a fully compatible implementation of the Jakarta Platform, Enterprise Edition (Jakarta EE) Version 11.

To understand what's new in WebLogic Server 26.1.0.0.0 compared with WebLogic Server 15.1.1.0.0, it is important to understand the differences in the Jakarta EE specifications that these versions support.

WebLogic Server 26.1.0.0.0 supports the Jakarta EE 11 Platform specification, whereas WebLogic Server 15.1.1.0.0 supports the Jakarta EE 9.1 Platform specification. The following provides a summary of the changes introduced in the Jakarta EE 11 Platform specification, relative to the Jakarta EE 9.1 Platform specification.

Table 1-1 Changes in Jakarta EE 11

Area	Jakarta EE 9.1	Jakarta EE 11
Java baseline	Java 8 or 11	Java 17+. Jakarta EE 11 takes advantage of Java 21 features such as virtual threads.
Main purpose	Stabilize the jakarta.* namespace migration	Modernize APIs, productivity, cloud-native performance
Data access	JPA-centric	Adds Jakarta Data 1.0 repositories, CRUD, pagination, and query methods
Persistence	Earlier JPA generation	Persistence 3.2: records, Instant/Year, richer queries, CDI-scoped injected EntityManager, Java configuration
Concurrency	Traditional managed executors	Concurrency 3.1 supports virtual threads where the JDK supports them
Records	No platform-level focus	Records supported in Persistence and Validation
Removed/pruned	Retained some optional legacy specs	Managed Beans removed; SecurityManager references and optional specs removed; SOAP with Attachments and XML Binding are no longer part of the Platform
Testing	Earlier TCK structure	Modernized/restructured TCKs

Jakarta EE 11 removed the following technologies from the Jakarta EE Platform:

- Jakarta Managed Beans
- Jakarta SOAP with Attachments (SAAJ)
- Jakarta XML Binding (JAXB)
- Jakarta XML Web Services (JAX-WS)

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For backward compatibility, WebLogic Server retains support for additional API specifications that are no longer required by Jakarta EE 11, as listed in Table 1-3. These compatibility APIs are supported in WebLogic Server 26 (26.1.0.0.0).

Jakarta EE 11 also removes requirements related to the Java Security Manager. This change to the platform specification does not remove all compatibility APIs from WebLogic Server.

WebLogic Server also supports Jakarta MVC 3.0 and Jakarta NoSQL 1.0 as additional APIs outside the Jakarta EE 11 Platform. Jakarta Data 1.0 can use Jakarta Persistence or Jakarta NoSQL for data access.

Jakarta Data and Jakarta NoSQL Integration

WebLogic Server 26.1.0.0.0 adds Jakarta Data 1.0 support for repository-based application data access. Applications declare repository interfaces and inject their implementations through CDI. Jakarta Persistence-backed repositories integrate with persistence units, JTA, Bean Validation, and applicable Jakarta Data exception semantics.

The optional Jakarta NoSQL integration uses server-supplied Eclipse JNoSQL and NoSQL Providers in DOCUMENT mode. Administrators configure global NoSQL system resources, provider properties, protected credentials, server or cluster targets, and runtime monitoring. Applications bind local resource-reference aliases to these resources through effective Jakarta EE and WebLogic deployment descriptors.

Supported Providers: MongoDB, DynamoDB, Couchbase, CouchDB, Elasticsearch, Solr, and Oracle NoSQL.

NoSQL access is protected by resource-specific NoSQLResource policies evaluated for the current subject. Targeting and JNDI mappings do not substitute for authorization.

Resources can be managed using WLST, RESTful management services, and WebLogic Remote Console.

For more information, see:

- About NoSQL System Resources in *Administering NoSQL Resources for Oracle WebLogic Server*
- About Jakarta Data Applications in *Developing Jakarta Data Applications for Oracle WebLogic Server*

Jakarta MVC 3.0 Support

WebLogic Server 26.1.0.0.0 adds support for Jakarta MVC 3.0, an action-based model for building server-side web applications. Jakarta MVC is supported as an additional API outside the Jakarta EE 11 Platform and builds on Jakarta RESTful Web Services and Contexts and Dependency Injection (CDI).

WebLogic Server supplies Eclipse Krazo as the default Jakarta MVC implementation, integrated with its Jakarta RESTful Web Services, CDI, Servlet, and JSP facilities. CDI-managed controller actions process requests, populate models, and select views. A built-in JSP view engine renders the selected views.

Applications can use standard Jakarta MVC APIs for form binding and validation, CSRF protection, output encoding, redirects and URI generation, internationalization, and lifecycle events. Applications are packaged and deployed as WAR files using the server-provided MVC APIs and runtime. Keep the MVC API at provided scope in the application build rather than packaging a different MVC implementation in the WAR.

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For details, see:

- Using Jakarta MVC 3.0 in WebLogic Server Web Applications in *Developing Web Applications, Servlets, and JSPs for Oracle WebLogic Server*.
- Configuring Jakarta MVC Applications in *Developing Web Applications, Servlets, and JSPs for Oracle WebLogic Server*.
- Securing Jakarta MVC Applications in *Developing Web Applications, Servlets, and JSPs for Oracle WebLogic Server*.
- Jakarta MVC Implementation Reference for Oracle WebLogic Server in *Developing Web Applications, Servlets, and JSPs for Oracle WebLogic Server*.

Spring 7.x and Hibernate 7.x Support

WebLogic Server 26 (26.1.0.0.0) supports applications that use Spring 7.x and Hibernate 7.x in supported configurations.

These framework updates help application teams use current Spring and Hibernate releases with WebLogic Server 26.1.0.0.0, Jakarta EE 11 APIs, and supported JDK versions. See Oracle Fusion Middleware Supported System Configurations for the framework versions certified with this release.

Certificate Management Service

Oracle WebLogic Server 26 (26.1.0.0.0) provides a production-ready Certificate Management Service, a built-in method for managing SSL/TLS keystore entries in a WebLogic Server domain.

The Certificate Management Service significantly streamlines the distribution and renewal of keystore entries to the correct servers, ensuring certificates remain valid with minimal intervention.

The Certificate Management Service makes requests to supported Certificate Issuers to obtain identity and trust material. It then stores the received material in a managed storage and distribution system and distributes it to servers as necessary. It can even automatically check and renew identity and trust material from the built-in Domain Certificate Issuer.

For more information, see Managing Certificates with the Certificate Management Service in *Administering Security for Oracle WebLogic Server*.

> **Note**
>
> Significant changes were made to the implementation of the Certificate Management Service since its original release in WebLogic Server 15.1.1.0.0 as a technology preview.

Domain-wide Application Deployment-State REST Resource

WebLogic Server 26 (26.1.0.0.0) provides a domain-wide application deployment-state REST resource. Administrators can use this REST resource to retrieve deployment-state information for applications across a domain through the WebLogic Server REST Management APIs.

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This resource helps automation, monitoring, and operational tooling determine application deployment state without requiring separate checks for each individual deployment target.

Feature Compatibility Security Gates and Enhancements

Feature Compatibility security gates provide a controlled way to introduce security hardening that can change established WebLogic Server behavior. They help customers test changes to applications, clients, integrations, permissions, and authorization policies.

In WebLogic Server 26.1.0.0.0, applicable security feature gates are enabled by default. Where a gate remains configurable, customers can explicitly disable it temporarily for compatibility testing. The persisted setting overrides the default, and the associated protection is not active while the gate is disabled. Some protections, including strict replication authorization, are always enforced and cannot be disabled.

The supporting documentation provides gate-specific behavior, error scenarios, configuration guidance, and testing recommendations. WebLogic Server logging and the Security Validation Tool warn when applicable configurable gates remain disabled. Configuration Wizard, Reconfiguration Wizard, and WebLogic Remote Console enhancements provide controls for applicable configurable gates during testing, validation, and deployment.

Test enabled behavior in non-production environments and re-enable any temporarily disabled gates as soon as validation is complete.

For more information, see Managing Gated Security Features in *Administering Security for Oracle WebLogic Server*.

FIPS 140-3 Support

WebLogic Server 26 (26.1.0.0.0) adds support for FIPS 140-3 in supported configurations. This support helps customers run WebLogic Server environments that require FIPS 140-3-aligned cryptographic operations.

For certified platforms, JDK versions, and other requirements for FIPS 140-3 support, see Oracle Fusion Middleware Supported System Configurations and the WebLogic Server security documentation.

Jipher JCE Provider

Oracle WebLogic Server 26 (26.1.0.0.0) adds support for Jipher JCE 20.0, a new release of the Oracle developed JCE provider.

The Jipher JCE 20.0 provider is included with WebLogic Server by default and uses OpenSSL 3.6.3. WebLogic Server also includes Jipher PKI 10.15. FIPS 140-3 compliance requires a supported configuration that uses approved cryptographic algorithms and a CMVP-validated cryptographic module.

WebLogic Server 26.1.0.0.0 also introduces the ability to automatically register the Jipher JCE provider at runtime, granting flexibility in its usage.

The Jipher JCE provider is located in `jipher-jce.jar`, which is in the WebLogic Server classpath by default.

For more information, see Using the Jipher JCE Provider in *Administering Security for Oracle WebLogic Server*.

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Deploying Exploded Applications and Application Installation Directories with REST

WebLogic Server 26 (26.1.0.0.0) enhances REST deployment support for exploded applications and application installation directories.

Administrators can use the WebLogic Server REST Management APIs to deploy directory-based application content as part of REST-based deployment workflows.

This support helps automation and deployment tooling work with expanded application layouts and application installation directories without requiring every deployment operation to use an archived application file.

Upgrade Improvements

WebLogic Server application upgrade tooling uses OpenRewrite recipes to help automate application changes for newer WebLogic Server, Java, Jakarta EE, Jakarta Faces, and Spring Framework versions.

OpenRewrite Recipes

WebLogic Server application upgrade tooling uses OpenRewrite recipes to help prepare applications for WebLogic Server 26 (26.1.0.0.0), Jakarta EE 11, and JDK 21 or JDK 25. Run the selected Java build-target recipe first, followed by the Jakarta EE 11 migration recipe and then the WebLogic Server 26.1 core recipe.

These recipes help update Jakarta EE APIs and deployment descriptors, update WebLogic Maven configuration, align dependencies for server-provided APIs, and identify deprecated or removed APIs and migration risks. Separate recipes support Spring Framework 7 and Jakarta Persistence 3.2 with Hibernate 7; select them when those frameworks are used by the application.

The Java recipes change the build target; they do not modernize application source code. Review the reported migration risks and make application-specific changes before building and testing the application on the selected JDK and WebLogic release. Gradle applications may require equivalent build-configuration changes manually.

Applications upgraded from a Java EE-based WebLogic release require applicable `javax`-to-`jakarta` changes. Applications upgraded from WebLogic Server 15.1.1 already use the `jakarta` namespace and require compatibility review for Jakarta EE 11.

For workflow details, see the WebLogic Server application upgrade tooling Documentation. To jump-start your hands-on learning, see the Examples and Tutorials.

Manageability Improvements

Oracle WebLogic Server 26.1.0.0.0 continues to provide new management features that simplify the configuration, monitoring, and ongoing management of WebLogic Server domains and applications.

Management enhancements include the production-ready Certificate Management Service and the domain-wide application deployment-state REST resource. The following section summarizes documentation-library updates.

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Documentation Update History

The update history of the Oracle WebLogic Server documentation library summarizes updates to user and reference guides and online help for WebLogic Server 26 (26.1.0.0.0).

The following table summarizes updates made to the documentation library for its initial 26 (26.1.0.0.0) release:

Table 1-2 Documentation Update History

Date	Description of Updates
November 2026	Initial release of the Oracle WebLogic Server 26.1.0.0.0 documentation library. Significant library changes include: • Added two new books: *Administering NoSQL Resources for Oracle WebLogic Server* and *Developing Jakarta Data Applications for Oracle WebLogic Server*. • Added a new chapter, Managing Certificates with the Certificate Management Service in *Administering Security for Oracle WebLogic Server*. • Added new topics for new `FeatureCompatibilityMBean` attributes to the Managing Gated Security Features chapter in *Administering Security for Oracle WebLogic Server*.

Standards Support, Supported Configurations, and WebLogic Server Compatibility

Oracle WebLogic Server 26 (26.1.0.0.0) provides Jakarta EE 11 full platform support, Java SE 21 and 25 certification, support for web services standards, support on multiple operating system and JVM platforms, and support for several security standards.

The following sections describe WebLogic Server standards support, supported system configuration, WebLogic Server compatibility, WebLogic Server installation support:

Standards Support

WebLogic Server 26 (26.1.0.0.0) supports the following standards and versions:

Jakarta Standards

Table 1-3 lists Jakarta EE 11 standards and additional Jakarta EE and Java EE APIs supported by WebLogic Server for compatibility. Jakarta MVC and Jakarta NoSQL are additional APIs outside the Jakarta EE 11 Platform.

> **Note**
>
> See WebLogic Server Security Standards in *Administering Security for Oracle WebLogic Server* for the currently supported security standards, such as JAAS, JCE, Jakarta Authentication, Jakarta Authorization, Jakarta Security, and so forth.

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Table 1-3 Jakarta EE 11 Standards and WebLogic Server Compatibility API Support

Standard	Version
Jakarta EE Platform	11
Jakarta Activation	2.1
Jakarta Annotations	3.0
Jakarta Authentication	3.1
Jakarta Authorization	3.0
Jakarta Batch	2.1
Jakarta Concurrency	3.1
Jakarta Connectors	2.1
Jakarta Contexts and Dependency Injection	4.1
Jakarta Data	1.0
Jakarta Debugging Support for Other Languages	2.0
Jakarta Dependency Injection	2.0
Jakarta Deployment	1.7
Jakarta Enterprise Beans (EJB)	4.0
Jakarta Enterprise Web Services	2.0
Jakarta Expression Language (EL)	6.0
Jakarta Faces (JSF)	4.1
Jakarta Interceptors	2.2
Jakarta JSON Binding	3.0
Jakarta JSON Processing	2.1
Jakarta Mail	2.1
Jakarta Managed Beans	2.0
Jakarta Management	1.1
Jakarta Messaging (JMS)	3.1
Jakarta MVC	3.0
Jakarta NoSQL	1.0
Jakarta Pages (JSP)	4.0
Jakarta Persistence (JPA)	3.2
Jakarta RESTful Web Services (JAX-RS)	4.0
Jakarta Security	4.0
Jakarta Servlet	6.1
Jakarta SOAP with Attachments (SAAJ)	3.0
Jakarta Standard Tag Library (JSTL)	3.0
Jakarta Transactions (JTA)	2.0
Jakarta Validation	3.1
Jakarta Web Services Metadata for the Java Platform	3.0
Jakarta WebSocket	2.2

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Table 1-3 (Cont.) Jakarta EE 11 Standards and WebLogic Server Compatibility API Support

Standard	Version
Jakarta XML Binding (JAXB)	4.0
Jakarta XML Web Services (JAX-WS)	4.0

Other Java Standards

Table 1-4 lists other currently supported Java and related standards.

Table 1-4 Java and Related Standards Support

Standard	Version
Java API for XML Processing (JAXP)	1.4.4
Java Naming and Directory Interface (JNDI)	1.3
JDBC	4.3
JDKs	21.0 and 25.0 See JDK 21 and 25 Certification and Oracle Fusion Middleware Supported System Configurations for details.
JMX	1.2
OTS/JTA	OTS 1.2 and JTA 1.3
RMI	1.0
RMI/IIOP	1.0
Streaming API for XML (StAX)	1.0

Web Services Standards

For the current list of standards supported for WebLogic web services, see Features and Standards Supported by WebLogic Web Services in *Understanding WebLogic Web Services for Oracle WebLogic Server*.

Other Standards

Table 1-5 lists other standards that are supported in WebLogic Server 26 (26.1.0.0.0).

> **Note**
>
> See WebLogic Server Security Standards in *Administering Security for Oracle WebLogic Server* for additional information on standards relating to security, such as SSL, TLS, and XACML, and so forth.

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Table 1-5 Other Standards

Standard	Version
X.509	v3
LDAP	v3
TLS	v1.2, v1.3
HTTP	2.0, 1.1
SNMP	SNMPv3
eXtensible Access Control Markup Language (XACML)	2.0
Partial implementation of Core and Hierarchical Role Based Access Control (RBAC) Profile of XACML	2.0
Internet Protocol (IP)	Versions: • v6 • v4

For more information about IPv6 support for all Fusion Middleware products, see the Oracle Fusion Middleware Supported System Configurations page on Oracle Technology Network.

Jython Version

WLST supports Jython 2.7.1. See Behavior Changes in Jython version 2.7 in *Release Notes for Oracle WebLogic Server* for compatibility information and workarounds.

Supported Configurations

For the most current information on supported configurations, see the Oracle Fusion Middleware Supported System Configurations page on Oracle Technology Network.

Licensing Information

For the most current information on Oracle Fusion Middleware Licensing, see *Licensing Information User Manual*.

WebLogic Server Compatibility

For the most current information on compatibility between the current version of WebLogic Server and previous releases, see WebLogic Server Compatibility in *Understanding Oracle WebLogic Server*.

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2

Deprecated and Removed Functionality

These sections describe deprecated functionality, removed functionality, and changed defaults in Oracle WebLogic Server 26 (26.1.0.0.0).

Deprecated Functionality in Oracle WebLogic Server 26 (26.1.0.0.0)

The following functionality and components have been deprecated in WebLogic Server 26 (26.1.0.0.0).

For the functionality and components deprecated in WebLogic Server 15c (15.1.1.0.0), see Deprecated Functionality in Oracle WebLogic Server 15c (15.1.1.0.0) in *What's New in Oracle WebLogic Server*.

XA Transactions Without Transaction TLog Write

XA transactions without Transaction TLog write are deprecated. Existing domains that rely on XA transactions without Transaction TLog write should plan to use XA transactions with Transaction TLog write enabled.

FastSwap

FastSwap is deprecated in Oracle WebLogic Server 26 (26.1.0.0.0).

FastSwap enables development-time redefinition of Java classes in supported exploded applications without redeploying the application.

Applications and development workflows that rely on FastSwap should plan to use standard application or module redeployment to apply class changes.

Removed Functionality and Components

The following functionality is removed from Oracle WebLogic Server 26 (26.1.0.0.0). Use the replacement APIs described in this section.

Legacy REST Management APIs

The legacy REST Management APIs under `/management/wls` and `/management/tenant-monitoring` are removed. Use the WebLogic Server REST Management APIs under `/management/weblogic`.

Changed Defaults and Access Restrictions

The following defaults and access restrictions changed in WebLogic Server 26 (26.1.0.0.0):

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- JMS .NET clients are disabled by default. To continue using JMS .NET clients, explicitly enable `SecurityConfigurationMBean.JMSDotNetClientEnabled` and restart the server.
- Anonymous JMS .NET client access is no longer a special exception. It is governed by the server-level remote anonymous T3 policy. Anonymous access requires both the server-level `RemoteAnonymousRMIT3Enabled` policy and the domain-level `SecurityConfigurationMBean.RemoteAnonymousJNDIEnabled` policy to permit it. Otherwise, configure JMS .NET clients with credentials.
- JMS .NET client JNDI use is restricted to the WebLogic JMS operations required by the JMS .NET client. The server-side proxy uses a local WebLogic initial context and excludes client-supplied naming and transport settings, including `Context.INITIAL_CONTEXT_FACTORY` and `Context.PROVIDER_URL`. Lookups are restricted to supported local WebLogic JMS connection factories and destinations; external URL names and unsupported indirect bindings are rejected.
- IIOP is disabled by default. WebLogic Server 26.1.0.0.0 provides the domain-level `SecurityConfigurationMBean.IIOPEnabled` switch to enable or disable IIOP by default for servers and server templates in the domain. The server-level `IIOPEnabled` setting is derived from the domain-level default unless explicitly overridden at the server level.

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