What's New for Oracle Blockchain Platform

Here's an overview of the new features and enhancements that were recently added to Oracle Blockchain Platform. This document is organized by the date a specific feature or capability became available.

Topics

Release 25.4.1 — December 2025

Feature	Description
Hyperledger Fabric v3.1.1	New instances of Oracle Blockchain Platform are now based on Hyperledger Fabric v3.1.1.

Feature	Description
Kubernetes infrastructure	Oracle Blockchain Platform now runs on Kubernetes clusters.
Chaincode as a service	You can run chaincode as a service that is managed externally instead of being built and launched on a peer node. For more information, see: Deploy Chaincode from an External Service.
Stablecoin sample	Oracle Blockchain Platform Digital Assets Edition includes pre-packaged chaincode and wrapper APIs for a sample application that manages the life cycle of a stablecoin. For more information, see: Stablecoin Application.

Release 25.2.2 — September 2025 (Oracle Blockchain Platform Digital Assets Edition)

Feature	Description
Oracle Blockchain Platform Digital Assets Edition v25.2.2	The new version of Oracle Blockchain Platform Digital Assets Edition and the accompanying enhanced version of Blockchain App Builder include the following features: • Confidential mode support, which keeps sensitive transaction details such as amounts, balances, and user identities visible only to authorized participants in the transaction, while still enabling controlled access for regulators and auditors. • Pre-packaged chaincode and wrapper APIs for a confidential version of the sample application for wholesale central bank digital currency (CBDC). • Automatic generation of Postman collections and wrapper APIs with transient map and OAuth 2.0 support for secure API testing and enterprise integration. For more information, see the following documentation: • Confidential Payments • Oracle Blockchain Platform Digital Assets Edition • Blockchain App Builder for Oracle Blockchain Platform

Release 25.2.2 — June 2025

Feature	Description
Hybrid state database	The hybrid state database model avoids service interruptions by storing the state information in both the embedded Berkeley DB (primary state database) and also in Oracle Database (fallback state database). To use the hybrid state database model, enable a fallback state database on the peer nodes. See: Create the Fallback State Database

Release 24.4.3 — December 2024 (Oracle Blockchain Platform Digital Assets Edition)

Feature	Description
Oracle Blockchain Platform Digital Assets Edition	Oracle Blockchain Platform Digital Assets Edition is an extension of Oracle Blockchain Platform that provides pre-built domain-specific content such as chaincodes and wrapper APIs for use in scenarios such as central bank digital currency (CBDC) and digital bond marketplaces as well as generic token frameworks. With its unique focus on digital asset tokenization and lifecycle management, it simplifies complex processes such as compliance, asset transfers, and ownership verification while ensuring real-time tracking and auditability. It reduces entry barriers for users developing applications that work with digital assets. It includes the following components: • An enhanced version of Oracle Blockchain Platform with added features and components to facilitate deploying comprehensive digital assets solutions. • An enhanced version of Blockchain App Builder, which assists with rapid development, testing, debugging, and deployment of secure chaincodes that handle multiple digital assets. • Pre-packaged chaincodes for two domain-specific applications: wholesale central bank digital currency (CBDC) and a bond marketplace, along with chaincode specification templates for deposit token, generic fungible token, generic non-fungible token, and combined token applications. • Routes for chaincode application-specific functions. Blockchain App Builder also provides tools for automated generation of wrapper APIs from any generated chaincode, including the related Terraform scripts to deploy them along with a Postman collection for quick testing of the APIs. • Wrapper API packages for the wholesale CBDC and bond marketplace samples. These also contain a Terraform script that provisions all of the necessary OCI resources, as well as a Postman collection to quickly test the APIs. See: Oracle Blockchain Platform Digital Assets Edition

Release 23.3.3 — October 2023 (Blockchain App Builder 23.4.1)

Feature	Description
Blockchain App Builder v23.4.1	The new version of Blockchain App Builder includes the following features: • Methods to support locking non-fungible tokens (NFTs). See the following topics: – TypeScript Methods for ERC-721 NFT Locking – Go Methods for ERC-721 NFT Locking – TypeScript Methods for ERC-1155 NFT Locking – Go Methods for ERC-1155 NFT Locking Download Blockchain App Builder from the Developer Tools tab in your Oracle Blockchain Platform instance. See: Build Chaincodes with Low-Code Blockchain App Builder

Release 23.3.3 — October 2023

Feature	Description
Hyperledger Fabric v2.5.3	New instances of Oracle Blockchain Platform are now based on Hyperledger Fabric v2.5.3.
Support for transferring NFTs from Oracle Blockchain Platform to Ethereum	The `atomicTransactions` REST API now supports transferring non-fungible tokens (NFTs) from Oracle Blockchain Platform to an Ethereum or Polygon network. See: Ethereum Interoperability and Atomic Transactions REST Endpoints
Ethereum Virtual Machine (EVM) enhancements	An enhanced version of the EVM chaincode is now downloadable from the Oracle Blockchain Platform console. You can use the EVM chaincode to deploy and interact with smart contracts on Ethereum Virtual Machine (EVM) chaincode that is deployed on Oracle Blockchain Platform, either via REST proxy or fab3 proxy. New methods allow you to configure the gas value in EVM chaincode. Additionally, the REST proxy now supports JSON format input when calling deployed smart contract functions. See: Run Solidity Smart Contracts with EVM on Oracle Blockchain Platform and Configuring the Fab3 Proxy

Release 22.4.2 — September 2023 (Blockchain App Builder 23.3.3)

Feature	Description
Blockchain App Builder v23.3.3	The new version of Blockchain App Builder includes the following features: • Support for fractional non-fungible tokens (NFTs) when you use the extended version of the ERC-1155 token standard. A new sample fractional NFT application is also provided. See ERC-1155. • Methods to support a new role of organization administrator (`OrgAdmin`) when you use the extended Token Taxonomy Framework standard. The organization administrator can manage tokens and token accounts for a particular organization. See Tokenization Support, Scaffolded TypeScript Project for Token Taxonomy Framework, and Scaffolded Go Project for Token Taxonomy Framework. • Methods to support enabling, disabling, and deleting token accounts that use the extended ERC-721 and ERC-1155 standards. See the following topics: – TypeScript Methods for ERC-721 Token Account Status – Go Methods for ERC-721 Token Account Status – TypeScript Methods for ERC-1155 Token Account Status – Go Methods for ERC-1155 Token Account Status • Postman collection generation, so that you can automatically generate a complete set of API requests from a specified chaincode. See Generate a Postman Collection Using the CLI and Generate a Postman Collection Using Visual Studio Code. • Automatic dependency checks that run when you upgrade Blockchain App Builder, to ensure that your system meets the prerequisites. You can also run a prerequisites check manually. See Troubleshoot Blockchain App Builder CLI and Troubleshoot Blockchain App Builder Visual Studio Code Extension. • Support for using a secondary instance of Oracle Blockchain Platform for disaster recovery in tokenization scenarios. See Disaster Recovery Support for Tokenization. Download Blockchain App Builder from the Developer Tools tab in your Oracle Blockchain Platform instance.

Feature	Description
	See: Build Chaincodes with Low-Code Blockchain App Builder

Release 22.4.2 — December 2022 (Blockchain App Builder 22.4.2)

Feature	Description
Blockchain App Builder for Oracle Blockchain Platform v22.4.2	The new version of Blockchain App Builder includes the following features: • Support for an extended version of the ERC-1155 token standard, which you can use to work with and exchange fungible tokens and non-fungible tokens (NFTs). See ERC-1155. • Methods to support converting between fungible tokens that use the extended Token Taxonomy Framework standard. See TypeScript Methods for Fungible Token Conversion and Go Methods for Fungible Token Conversion. • Methods to support enabling, disabling, and deleting token accounts for fungible tokens that use the extended Token Taxonomy Framework standard. See TypeScript Methods for Fungible Token Account Status and Go Methods for Fungible Token Account Status. • Support for Oracle Linux 7.9 and 8.0. Download Blockchain App Builder from the Developer Tools tab in your Oracle Blockchain Platform instance. See: Build Chaincodes with Low-Code Blockchain App Builder

Release 22.4.2 — December 2022

Feature	Description
Ethereum support for atomic transactions (two-phase commit)	You can now run Ethereum transactions as part of an atomic transaction workflow by using the `atomicTransactions` REST API, where the combined transactions are either all committed or all rolled back. See: Make Atomic Updates Across Chaincodes and Channels, Ethereum Interoperability, and Atomic Transactions REST Endpoints

Feature	Description
Support web3-based interactions with Ethereum smart contracts via the proxy	You can use the `web3` library and the `fab3` proxy to deploy and interact with smart contracts on Ethereum Virtual Machine (EVM) chaincode that is deployed on Oracle Blockchain Platform peer nodes. See: Configuring the Fab3 Proxy
Upgrade of instances running Hyperledger Fabric v2.2.4	You can now upgrade the version of Oracle Blockchain Platform that is running on instances that are based on Hyperledger Fabric v2.2.4.
Rich queries in the console UI	You can run and analyze rich queries on the state database for a specified chaincode and channel in the console's **Channels** tab by using the **More Actions** menu. See: Rich Queries in the Console
Chaincode package deletion	To free up disk space, you can delete obsolete or unused chaincode packages by using the REST API or the console UI. See: Delete a Chaincode and Delete Installed Chaincode Package
OAuth 2.0 support for REST proxy event callbacks	In addition to mutual TLS, REST proxy event subscription callbacks now support invoking callback endpoints that are secured with OAuth 2.0 authorization. See: Subscribe to an Event

Release 22.3.2 — August 2022

Feature	Description
Atomic transactions (two-phase commit)	You can now use the REST API to combine a group of transactions across multiple channels into a single (atomic) transaction. Atomic transactions use the two-phase commit protocol, so that the combined transactions are either all committed or all rolled back. You can use this function to work around Hyperledger Fabric limitations related to atomic cross-channel updates. See: Use Atomic Transactions and Atomic Transactions REST Endpoints

Feature	Description
Oracle Blockchain Platform support for global distributed transactions	Oracle Blockchain Platform now supports the X/Open group XA (eXtended Architecture) standard, which specifies the interface between a global transaction manager and local transactional resource managers. The XA standard is based on a two-phase commit protocol. Oracle Blockchain Platform now provides a Java library that can be used as an XA resource manager, allowing global transaction managers to coordinate and sequence a series of atomic operations that can include Oracle Blockchain Platform blockchain transactions alongside databases, queueing systems, and other XA-capable resources. See: Use the XA Java Library

Release 22.2.1 — June 2022 (Blockchain App Builder 22.2.3)

Feature	Description
Blockchain App Builder for Oracle Blockchain Platform v22.2.3	The new version of Blockchain App Builder includes the following features: • Support on Microsoft Windows for the latest Blockchain App Builder features, including non-fungible token (NFT) support. • Support for TypeScript 4.6. Download Blockchain App Builder from the Developer Tools tab in your blockchain instance. See: Using Blockchain App Builder

Release 22.2.1 — April 2022

Feature	Description
Hyperledger Fabric v2.2.4 upgrades	You can now upgrade existing instances of Oracle Blockchain Platform that are based on Hyperledger Fabric v1.4.7 to Hyperledger Fabric v2.2.4. You can upgrade instances that are part of a network that includes a single organization. To upgrade the platform version of a network with multiple organizations, contact Oracle support.

Feature	Description
Reliable callbacks for event subscriptions	Oracle Blockchain Platform now supports more reliable delivery for subscribed events. If a callback fails, it is retried based on an exponential backoff policy. When you subscribe to chaincode events, you can specify the maximum number of times that a callback will be retried after a communication failure. See: Subscribe to an Event in the REST API documentation.
Blockchain App Builder for Oracle Blockchain Platform v22.2.1	The new version of Blockchain App Builder includes the following features: • Support for non-fungible tokens (NFTs), including automatically generated methods and SDKs for NFTs. • A new command for applying patches to Blockchain App Builder projects. • New methods for filtering and paginating query results. • New SDK methods that support cross-chaincode function calls. • A local testing environment that is now based on Hyperledger Fabric v2.4. • Enhanced account creation for fractional fungible tokens, which includes an additional step to associate the token account with the token ID. Download Blockchain App Builder from the Developer Tools tab in your blockchain instance. See: Using Blockchain App Builder

The following table outlines changes that might cause incompatibilites with previous releases of Oracle Blockchain Platform.

Change	Notes
Hyperledger Fabric v2.2.4 does not automatically vendor the Go chaincode shim dependency as previous versions did. You must manually vendor the Go chaincode shim.	See *Vendor the Shim for Go Chaincodes* in Write a Chaincode.
Hyperledger Fabric v2.2.4 requires Go version 1.16.7 or later.	For instances based on Hyperledger Fabric v2.2.4 that run Go chaincodes, upgrade to Go version 1.16.7 or later.

Change	Notes
Multiple versions of the Hyperledger Fabric SDKs are available. Use a version of the SDK that is compatible with the version of Hyperledger Fabric that your instance is based on.	For instances based on Hyperledger Fabric v2.2.4, use versions that are compatible with the Hyperledger Fabric v2.2 long-term support (LTS) release. Oracle Blockchain Platform was verified to work with the following versions for Hyperledger Fabric v2.2.4: • Node.js SDK v2.2.9 • Java SDK v2.2.2 • Go SDK v1.0.0 For more information, see: Use the Hyperledger Fabric SDKs to Develop Applications

Release 21.4.1 — November 2021

Feature	Description
Hyperledger Fabric v2.2.4	You can now create instances of Oracle Blockchain Platform based on Hyperledger Fabric v2.2.4, which includes the following features: • A new chaincode life cycle, with new procedures for installing chaincode on peers and starting it on a channel. • A new model that separates chaincode packages from chaincode definitions, which allows for more flexibility when deploying chaincodes. • Decentralized governance, so that multiple organizations must agree to chaincode parameters before deployment, instead of using one group of parameters set by the founder. See: Deploy and Manage Chaincodes on Hyperledger Fabric 2.2.4
Private data collection enhancements	You can specify an endorsement policy to control access to a private data collection. You can also automatically prevent members of organizations that are not part of the collection from reading or writing private data. See: Add Private Data Collections
User-initiated upgrades	When a new release of Oracle Blockchain Platform is available, you can now use the Oracle Cloud Infrastructure console or the REST APIs to upgrade an instance at the time you choose.

Oracle Cloud What's New for Oracle Blockchain Platform on Oracle Cloud Infrastructure
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