

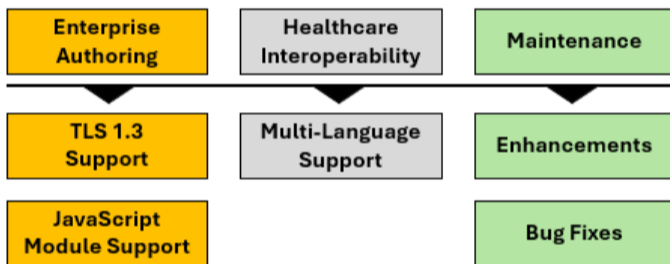
Release Notes - LogicNets Release 8.4.38305-39490

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1.0 Introduction

LogicNets is pleased to announce Release 8.4, which delivers updates to the enterprise-level application authoring, testing, validation, and deployment functionality introduced in previous releases. This release also includes minor bug fixes for preexisting functionality and additional security features. The image below identifies the major functional areas for which v8.4 provides updates and changes.

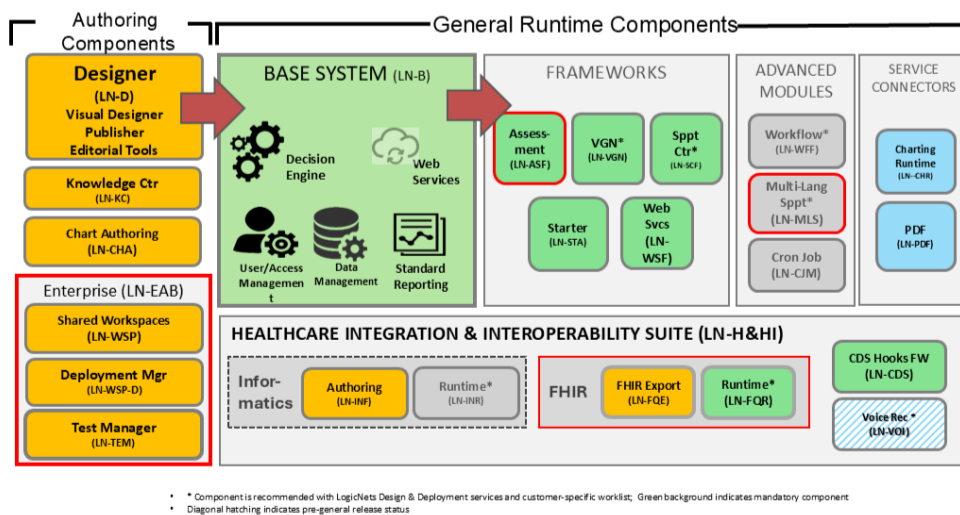


For information about LogicNets changes related to the previous release (v8.3) of our system, see the release notes for that version, which are available here: [v8.3 Release Notes](#).

2.0 LogicNets Software Components Overview

The diagram below highlights in red the LogicNets platform software components containing new functionality in v8.4.

Product Components Diagram



3.0 New Functionality

This section highlights the new features included in LogicNets Release 8.4. Note that some of the new or updated features may require you to acquire additional licenses or to make changes to existing applications. We have identified the associated components in each section, and you can read more about LogicNets' product licensing [here](#).

Warning: You can import projects you modeled with Release 8+ into older releases. However, LogicNets does not guarantee backward compatibility when these projects use new functionality.

3.1 TLS1.3 Support

Support Articles	Call a Generic Webservice
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Transport Layer Security (TLS) is the standard cryptographic protocol used to secure, encrypt, and authenticate data transmitted over the internet. In the LogicNets platform TLS is used to secure inbound and outbound connections. The Web Server (typically Microsoft IIS or Apache) secures the inbound connections and the LogicNets runtime manages the outbound connections. With this release, LogicNets has added support for the latest version of TLS, which is TLS 1.3.

Components: LogicNets Base System (LN-B)

3.2 Smart-on-FHIR Launch Support

Support Articles	Smart-on-FHIR Launch
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SMART on FHIR is a protocol for interoperability across Electronic Health Records (EHR) systems, healthcare applications, and IT environments. It allows healthcare developers to build innovative, interoperable applications that can securely access and exchange health data from EHRs and other sources. LogicNets applications have long supported the use of the FHIR protocol and specific applications have routinely been configured by LogicNets to use SMART on FHIR to enable secure integration with external systems.

In this release, the LogicNets platform more generally supports the SMART Launch Framework, which provides guidance on how to securely launch and integrate SMART on FHIR applications within healthcare environments. It outlines protocols for authentication, authorization, and secure communication between apps and healthcare data sources, using standards like OAuth 2.0 and OpenID Connect to ensure that only authorized users can access sensitive health information.

Components: LogicNets Base System (LN-B)

3.3 Unlock Session Part for Parallel Request Handling

Support Articles	Unlock Current Session
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By default, LogicNets does not process multiple requests in parallel for one session, so some requests may be delayed because the session is locked. In some cases, however, especially for GET API calls, it is not necessary to lock the session because the call is only retrieving data and not modifying the session. You can put this part at the start of the endpoint logicnet that implements the API call and the system unlocks the session and processes other session requests. When the system performs multiple calls, this helps prevent the system from waiting on locked sessions.

Components: LogicNets Base System (LN-B)

3.4 IdP in AccessManagement

Support Articles	Configuring IdP in Access Management
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In v8.4, LogicNets provides a wizard to help you configure the access authentication portion of the *settings.cfg* file. To use this wizard, go to the *Access Management* function on your LogicNets dashboard.

Components: LogicNets Base System (LN-B)

3.5 SMTP: Support for Plain Text Authentication + Implicit SSL [RFC 8314]

Support Articles	System Settings E-mail Tab
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With this release, email relay services are no longer required on the LogicNets server on which an application lives. The system now supports Implicit TLS SMTP protocol with plain text authentication.

Components: LogicNets Base System (LN-B)

3.6 OAuth2: Support for JWT Bearer Assertion Signed with Rotating Keys

Support Articles	Configuring IdP in Access Management
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LogicNets supports OAuth and, in general, OAuth token endpoints support different authentication methods: Plain Text and JWT Bearer. A bearer token is a security token that grants access to whoever holds it: if you have the token you can access the protected resource without an additional secret or password. For a JSON Web Token (JWT), the Identity Provider (IdP) client signs with a private key and the IdP uses the corresponding public key to verify the JWT signature.

Prior to the release of v8.4, LogicNets supported static public and private keys:

- For LogicNets as IdP Client, the private key is stored in the IdP configuration.
- For LogicNets as IdP Server (Identity Provider), the public key is stored in the server user password field.

With v8.4, when you use LogicNets as an IdP Client the system also supports rotating keys, which get renewed every 30 days.

Components: LogicNets Base System (LN-B)

3.7 Support for Partitioned Cookies

Support Articles	Third-Party Cookies
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Partitioned cookies, also known as Cookies Having Independent Partitioned State (CHIPS), enhance privacy in those browsers with CHIPS support. With this release, LogicNets supports partitioned cookies. The comparison between unpartitioned and partitioned cookies revolves around how the cookies are stored, accessed, and cleared in cross-site contexts (iFrames) in browsers such as Chrome. As all major browsers move away from third-party cookies, partitioned cookies maintain functionality in iFrames (like Single Sign On) while maintaining user privacy.

Components: LogicNets Base System (LN-B)

3.8 Convert Text to Date Handles Date Padding

Support Articles	Convert Text to Date
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For this release, LogicNets expanded the convert-text-to-date part to include typical Excel date formats. The updates allow for dates with and without zero padding as well as for comma, period, and forward-slash separators; for example, 01-01-26 or 1.1.26.

Components: LogicNets Base System (LN-B)

3.9 Support for Calling External IdP in iFrame

Support Articles	System Configuration Authentication Tab Configuring IdP in Access Management
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In OAuth 2.0, the OAuth client opens the authorization server (Identity Provider or IdP) to start the authorization process. Because of critical security and technical restrictions introduced by modern web browsers and security protocols, running this OAuth authorization login/consent page inside an iFrame is generally avoided. IdPs can also block such authorization.

LogicNets v8.3+ allows you to change the iFrame mode for each identity provider through the System Configuration options. With these, you can change the iFrame mode for the local LogicNets authorization form.

Components: LogicNets Base System (LN-B)

3.10 Package Startcode in Session URL

Support Articles	URL Link to a Published Project
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When a published package has a start code, you can start the package using a direct URL. Prior to this release, the URL changed once the session started and it was difficult to bookmark or share the URL. With this release, the system keeps the start code in the URL, even though it also shows the session ID. To bookmark or share the URL, you can simply delete the session ID from the displayed URL.

Additionally, if you start a package using the portal, the URL will contain the start code if one is available. Designer workspaces also have a direct URL, making them easier to share; for example, <https://myhost.logicnets.net/customer/designer/myworkspace>.

Components: LogicNets Base System (LN-B)

3.11 Expire Session for Expired Remote IdP Authentication Session

Support Articles	Session Timeout
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LogicNets will expire a local session for a remote IdP when the Access Token supplied by the remote IdP is expired and cannot be refreshed using the refresh token. It will also expire the local session if the remote IdP does not support refreshing access tokens.

Note: Not all IdPs revoke the refresh token when a user logs out; Microsoft, for example, which expires the tokens after 24 hours. [+Refresh tokens in the Microsoft identity platform - Microsoft identity platform | Microsoft Learn+|<https://learn.microsoft.com/en-us/entra/identity-platform/refresh-tokens>].

Components: LogicNets Base System (LN-B)

3.12 Reporting Framework Improvements

Support Articles	Reporting Framework Overview
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With this release, designers can make various changes to the default reports and meta data through logic in the custom configuration. You can change the visibility and order of default and custom reports the system shows in the *Reporting Module* dropdown. For example, you can hide standard reports that are not relevant for your application and you can modify the order of custom and standard reports to make more of a logical flow from summary-level to detail-level reporting.

Components: LogicNets Base System (LN-B)

3.13 Copy-to-Clipboard in Text Area

Support Articles	Text Area
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You can now configure the *textarea* part to show a copy-to-clipboard icon, if required, and to highlight spelling errors with a red underline.

Components: LogicNets Base System (LN-B)

3.14 Support for JavaScript Modules (.mjs)

Support Articles	Custom Layout Template Updates v7.4+
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JavaScript files that use the modern ECMAScript Module (ESM) system have the file extension *.mjs*. The "m" stands for "module" and it is specifically designed to distinguish these files from traditional CommonJS (*.js*) files in Node.js, allowing the use of import and export statements.

With v8.4+, LogicNets supports *.mjs* files in the project JS folder.

Components: LogicNets Base System (LN-B)

3.15 Third-Party Libraries Updated

Support Articles	Show Version, About Box
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In Release 8.4, LogicNets updated to the most-recent generally available versions of the following third-party libraries used in the application.

Library	Previous	Updated
OpenSSL	3.0.16	3.5.5
XMLSec Library	1.3.7	1.39
libxml2	2.13.8	2.15.2
SQLite	3.49.1	3.52.0
unixODBC	2.3.12	2.3.14
zlib	1.3.1	1.3.2
Lua	5.4.7	5.4.8 (Note: Lua 5.5 is not 100% back compatible)
FCGI2	2.4.5	2.4.7
7za	24.09	26.0
Highlight	11.10.0	11.11.1
jQuery	3.7.0	3.7.1
jQuery Migrate	3.5.2	3.6.0
jQueryUI	1.14.1	1.14.2
NetUrl	1.1.1	1.2.1
SwaggerUI	5.21.0	5.32.2
VisualStudio Redistributable	2013	2022 14.50.35719

Components: LogicNets Base System (LN-B)

3.16 Custom Content Items

Support Articles	Creating Content References
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You can now organize content references in your Designer projects in the *resources/content* folders using any custom tag name, which you choose from a configurable list in the project settings.

Components: LogicNets Designer (LN-D)

3.17 Designer Review Pane

Support Articles	Designer Project Report
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For users who need to more clearly understand and manage their LogicNets projects and the organization of content, it is now possible to generate an exportable human-readable document for a LogicNets project using the *Review* pane in the Designer. The report the system creates contains all logicnets and nodes that are present in the project. For each node, the system prints all parameters that are visible in the selected Designer profile.

Components: LogicNets Designer (LN-D)

3.18 Designer Workspace Changelog

Support Articles	Designer Changelog Information
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The Designer changelog provides a project-level list of all modifications made to each project. When you import a project from another workspace or revert it to a prior version, the project's changelog automatically aligns with the corresponding revision. This keeps the project history consistent and makes it easy to trace changes with user and date-stamp information. With this release, LogicNets expanded the feature to capture workspace-level events, including workspace-level updates to folders and projects and project version-control actions like check-ins, project imports, exports, and publishing activity.

You can inspect and download the complete and unified history across the entire workspace, providing a full view of actions completed in the Designer and ensures logging of important actions, even for deleted projects.

Components: LogicNets Designer (LN-D)

3.19 MLS Panel Merge Option

Support Articles	Manage Translations Using the Multi-Language Panel
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With this release, LogicNets has improved the Multi-Language Support (MLS) functionality in the Designer. When you have MLS enabled in your project and you make edits in the node/part editor or in the logicnet properties, the system allows you to more clearly identify translation conflicts and merge translations without creating unnecessary or duplicate translation keys.

Components: LogicNets Multi-Language Support (LN-MLS)

3.20 Customize Version Control Revision Status Labels

Support Articles	Customizing Revision Status in Version Control
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With this change, the System Configuration package now has a customizable list of revision status labels, allowing you to rename revisioning steps based on your company's internal processes and approvals. This update allows you to add any number of new status labels and to remove default labels except for two mandatory system-generated status labels. You can tie the revision status labels to the language of your content creation process steps for design, review, testing, and release.

Components: LogicNets Shared Workspaces (LN-WSP)

4.0 Enhancements and Bug Fixes

4.1 Assessment Framework (LN-ASF)

Functional Area	Update/Bug Addressed	Issue #
AssessmentFW	Fix: AssessmentFW: Fetching Content Refs by Tag from KC is not working	LN-24262

4.2 LogicNets Base System (LN-B)

Functional Area	Update/Bug Addressed	Issue #
AccessManagement	IdP in AccessManagement	LN-22568
AccessManagement	Fix: AccessManagement Roles don't work outside of admin	LN-23059
AccessManagement	Fix: Typo in AccessManagement	LN-23271
AccessManagement	Fix: User management: when making a new user with an invalid email, it still steps and shows a blank screen	LN-24365
Authentication	Category Name on Portal Page removes spaces ("Test Package" becomes "TestPackage")	LN-13859
Healthcare Integration and Interoperability	Smart-on-FHIR Launch Support	LN-22456
Part	Fix: Get Files In Order - not working 3 levels down, and is not recursive	LN-22151
Part	Unlock Session Part for Parallel Request Handling	LN-22470
Part	Convert Text to Date Handles Date Padding	LN-23089
Part	Fix: Autoscroll executes prior to page load	LN-24363
Part	Improve performance XPath when just one result is requested	LN-23624
Reporting	Reporting Framework Improvements	LN-23610
Reporting	Fix: Reporting does not work on MySQL	LN-24056
Runtime	Extend SQLite engine with the Math functions	LN-21765
Runtime	Upgrade logicnets executables build to VS2022	LN-22959
Runtime	Run framework postinstalljobs on derived packages	LN-23187
Runtime	Fix: System cleanup routine does not remove files with long names	LN-23276
Runtime	Extend redirect part to support creating company relative path	LN-23873
Runtime	Runtime performance improvements	LN-23875
Runtime	Support for JavaScript Modules (.mjs)	LN-24055
Runtime	Fix: Increase the IIS max query string length to 4096	LN-24126
Runtime	Fix: Revision numbers in the LogicNets executables are not correct	LN-24357
Runtime	Fix: Cleanup routine sometimes crashes when mtime cannot be determined of a file	LN-24488
Runtime	SMTP: Support for Plain Text Authentication + Implicit SSL [RFC 8314]	LN-22953
Runtime	Package Startcode in Session URL	LN-23206
Runtime	Fix: SameSite="none; Partitioned" causes a redirect loop	LN-23511
Runtime	Third-Party Libraries Updated	LN-24060
Runtime	8.4 Create release branch	LN-24072
Runtime	Fix: Performance Report Visual/Format is lost	LN-24207
Security	Sign JWT (JSON Web Tokens) with a key size of 2048	LN-23056
Security	Fix: Expire Session for Expired Remote IdP Authentication Session	LN-23397
Security	Move OAuth handling from logon to runtime to increase the session start performance	LN-23695
Security	Fix: The refresh-token cannot be used anymore when another app is logged in	LN-24218
Security	Fix: 3rd party IdP tokens and settings shall not be passed to IdP Clients	LN-24219
Security	OAuth2: Support for JWT Bearer Assertion Signed with Rotating Keys	LN-23058
Security	Support for Partitioned Cookies	LN-23087
Security	Logon: Show retry button when authorization is failed and only one IdP is configured, to avoid endless redirecting	LN-23204
Security	Support for Calling External IdP in iFrame	LN-23205
Security	Add support for [RFC 9728] OAuth 2.0 Protected Resource Metadata + [RFC8414] OAuth 2.0 Authorization Server Metadata	LN-24138
Security	Fix: Open redirect leaks OAuth code	LN-24360
Security	Add support for ES384 in JWTs	LN-24348
Security	Fix: Access token verification expects purpose and/or scope claim	LN-23901
Setup	Update LogicNets installer (windows) to disable folder content indexing	LN-21243
Setup	Add script to export other scripts as standalone packages	LN-24246
Setup	Fix: Incomplete companies are created during install	LN-24486
System Configuration	Fix: Settings: the CSP mandatory is empty	LN-24091

Web Service	TLS1.3 Support	LN-22178
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4.3 LogicNets Deployment Manager (LN-WSP-D)

Functional Area	Update/Bug Addressed	Issue #
DeploymentManager	Fix: Minor UI/Styling Fixes	LN-22322
DeploymentManager	Fix: Run Post-install-jobs when deploying image	LN-22610
DeploymentManager	Show version status in revision choice dropdown (Deployment Mgr)	LN-23885
DeploymentManager	Deployment Manager: Use of CANCEL vs CLOSE	LN-23903
DeploymentManager	Fix: DeploymentManager: Download deployment image does not work	LN-24264

4.4 LogicNets Designer (LN-D)

Functional Area	Update/Bug Addressed	Issue #
AI	AI Designer Integration	LP-15
Designer	Fix: The tree collapses when uploading an image	LN-19720
Designer	Fix: Downloading Changelog does not use local value separation configuration	LN-22084
Designer	Fix: Validation crashed when there is an error in the form part types that are configured in framework	LN-22329
Designer	Fix: Saving node that has no output connected give unnecessary validation warning	LN-22330
Designer	Fix: Reference Browser does not handle workspaces with a space in the name	LN-22471
Designer	Designer - Validator for dead references added	LN-22492
Designer	Fix: Browser Console show errors when trying to link nodes	LN-22935
Designer	Designer Workspace Changelog	LN-22939
Designer	Fix: A new revision is created (iso storing the current one) with the current user when the logicnet revision is missing	LN-23082
Designer	Fix: Framework tab is not shown in Project Details of project when framework package contains a '-'	LN-23611
Designer	Fix: When opening a node, it should not fire 2 API calls (select_node and shownodedetails) possibly causing race conditions	LN-23888
Designer	Fix: Layout: screen choosing KC article as content resource fails	LN-24244
Designer	Fix: Content reference selection not cleared - shows 2 rows selected	LN-24369
Designer	Designer Review Pane	LN-22802
Designer	The last modified stamp is not updated when a JS / CSS / layout / document template is modified	LN-22963
Designer	Support undo/redo on the content articles	LN-22755
Designer	Project: Add support using wildcards in js/css Incore includes	LN-24368
Designer	Designer Review Pane	LN-21921
Designer	UI/UX Redesign: Designer	LN-23980
Designer	Custom Content Items	LN-22459
Designer	Improve Content Editing and Linking	LN-22476
Designer	Improve References handling	LN-22481

4.5 LogicNets Multi-Language Support (LN-MLS)

Functional Area	Update/Bug Addressed	Issue #
Designer	Fix: MLS: The MLS implementation expects that the first language in the project is always "EN"	LN-20895
Designer	Fix: Pasting CSS file into CSS folder triggers MLS sync question	LN-24098
Designer	Fix: Multilanguage Guideline shows XXX in designer	LN-24370

4.6 LogicNets Shared Workspaces (LN-WSP)

Functional Area	Update/Bug Addressed	Issue #
Designer	Customize Version Control Revision Status Labels	LN-23607
Designer	Fix: Shared workspaces: Automatically filling the workspace is broken	LN-24210
Security	Fix: Cannot Access Shared Workspace when an IdP is used that generates Non-JWT access tokens	LN-23285
Shared Workspaces	Better delineation between shared and local workspace roles	LN-22215
Shared Workspaces	Shared Workspace: Allow blocking of users from using a specific revision	LN-20433

4.7 LogicNets Web Services Framework (LN-WSF)

Functional Area	Update/Bug Addressed	Issue #
Web Service	MCP Support	LN-24096

4.8 Navigator Framework (LN-NAV)

Functional Area	Update/Bug Addressed	Issue #
Healthcare Integration and Interoperability	Get Step-By-Step API working on Navigator content	LN-24494
Healthcare Integration and Interoperability	Generic Navigator (Framework)	LP-36