

Perceptive Content

Release Notes

Version: Foundation EP4

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Table of Contents

Documentation Notice.....	2
Overview	4
Perceptive Content Foundation EP4 (7.7.0.390) Release (February 10, 2024)	4
Perceptive Content Foundation EP4 (7.7.0.378) Release (December 10, 2023)	5
Perceptive Content Foundation EP4 (7.7.0.358) Release (September 10, 2023)	5
Perceptive Content Foundation EP4 (7.7.0.351) Release (August 10, 2023)	5
Perceptive Content Foundation EP4 (7.7.0.346) Release (July 10, 2023)	6
Perceptive Content Foundation EP4 (7.7.0.336) Release (May 10, 2023)	6
Perceptive Content Foundation EP4 (7.7.0.325) Release (April 10, 2023)	7
Perceptive Content Foundation EP4 (7.7.0.316) Release (March 10, 2023)	7
Perceptive Content Foundation EP4 (7.7.0.304) Release (February 10, 2023)	8
Perceptive Content Foundation EP4 (7.7.0.293) Release (December 16, 2022)	9
Perceptive Content Foundation EP4 (7.7.0.268) Release (November 10, 2022)	10
Perceptive Content Foundation EP4 (7.7.0.268) Release (October 10, 2022)	10
Perceptive Content Foundation EP4 (7.7.0.261) Release (September 10, 2022)	11
Perceptive Content Foundation EP4 (7.7.0.253) Release (August 10, 2022)	12
Perceptive Content Foundation EP4 (7.7.0.248) Release (July 10, 2022)	12
Perceptive Content Foundation EP4 (7.7.0.239) Release (June 10, 2022)	13
Perceptive Content Foundation EP4 (7.7.0.217) Release (May 10, 2022)	14
Perceptive Content Foundation EP4 (7.7.0.209) Release (April 10, 2022)	14
Perceptive Content Foundation EP4 (7.7.0.195) Release (March 10, 2022)	15
Perceptive Content Foundation EP4 (7.7.0.180) Release (February 10, 2022)	16
Perceptive Content Foundation EP4 (7.7.0.174) Release (January 10, 2022)	17
Perceptive Content Foundation EP4 (7.7.0.168) Release (December 10, 2021)	17
Perceptive Content Foundation EP4 (7.7.0.150) Release (November 10, 2021)	18
Perceptive Content Foundation EP4 (7.7.0.139) Release (October 10, 2021)	19
Perceptive Content Foundation EP4 (7.7.0.128) Release (September 10, 2021)	20
Perceptive Content Foundation EP4 (7.7.0.111) Release (August 10, 2021)	21
Perceptive Content Foundation EP4 Release (June 2021)	22

Overview

Perceptive Content Foundation EP4 contains new features, product and platform enhancements, and updates. New features introduce the new functionality available in your Perceptive Content Foundation EP4 system. Product enhancements provide an overview of the enhancements made to existing features. Platform enhancements provide an overview of the enhancements made to existing development tools, such as iScript. Patch releases specify the enhancements, both product and platform, and updates for each monthly patch.

A major or minor release, consistent with the versioning standard of *major.minor.incremental.build*, occurs approximately every eighteen months. Build releases, also known as patch releases, are posted each month.

Perceptive Content Foundation EP4 (7.7.0.390) Release (February 10, 2024)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client

All Perceptive Content Agents

- Added support for Oracle Instant Client 21.12 with ODBC on Windows. See the Perceptive Content Technical Specifications for ODBC driver and operating system compatibility. (PER-9362)
- Added support for Oracle Instant Client 21.13 with ODBC on Linux. See the Perceptive Content Technical Specifications for ODBC driver and operating system compatibility. (PER-9362)
- Updated supported versions of Microsoft ODBC Driver 17 for SQL Server on Windows and Linux. See the Perceptive Content Technical Specifications for ODBC driver and operating system compatibility. (PER-9362)
- Perceptive Content now supports RabbitMQ 3.11 and 3.12. If upgrading from previous versions of RabbitMQ, refer to the Perceptive Content RabbitMQ Update Guide. (PER-9362)

Perceptive Content Client

- Resolved issues with OpenID Connect logins persistently failing with some OpenID Provider integrations. Added a new setting to control whether this class of error should be ignored. For more information, see the `sso.openid.connect.login.ignore.client.aborted.requests.enabled` setting of the `imagenow.ini` [OpenID Connect Login Controls] settings help topic in the Manage Content help. (PER-9343/PER-8564)
- Resolved an issue where the client would not maintain focus on correct page when a multiple page document was saved. (PER-9145)
- Updated third-party viewing SDK with latest version, fixes potential security vulnerability CVE-2023-4863. (PER-9143)

Perceptive Content Foundation EP4 (7.7.0.378) Release (December 10, 2023)

The following components are included in this month's patch.

Product updates

This section provides an overview of updates made to existing functionality.

All Perceptive Content Agents

- Resolved an issue where intermittent connectivity to RabbitMQ could occur when using TLS connections on Windows. (PER-9212)
- Added new settings to disable publication of informational events to the message queuing broker. If these events are not being consumed, it is recommended that these settings be disabled. For more information, see the `inow.ini` [Message Queuing] settings help topic in the Manage Content help. (PER-9212)
- The following cryptographic algorithms are deprecated and should no longer be used. Any user supplied keys that were generated using these algorithms should be updated to use newer algorithms to ensure compatibility with future Perceptive Content releases. Affected symmetric ciphers include Blowfish, CAST, DES, IDEA, RC2, RC4, RC5 and SEED. Affected hashing algorithms include MD2, MD4, MDC2, WHIRLPOOL and RIPEMD160. (PER-9233)

Perceptive Content Foundation EP4 (7.7.0.358) Release (September 10, 2023)

The following components are included in this month's patch.

Product updates

All Perceptive Content Agents

- Removed upper limit on number of worker threads that can be configured for processing Perceptive Content work items. (PER-8919)

Perceptive Content Foundation EP4 (7.7.0.351) Release (August 10, 2023)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client

Perceptive Content Client

- Updated Perceptive Content to support KeyView 12.13. This resolved an issue where Import Agent would not display .EML files correctly. (PER-7361)

Perceptive Content Foundation EP4 (7.7.0.346) Release (July 10, 2023)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client

Perceptive Content Client

- Resolved an issue with the LearnMode script AppGetTree() function not working correctly with Google Chrome versions 114 and later. (PER-8653)

Perceptive Content Foundation EP4 (7.7.0.336) Release (May 10, 2023)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content File System Agent
- Perceptive Content Integration Server
- Perceptive Content Workflow Agent

All Perceptive Content Agents

- Updated performance statistic logging to sanitize arguments. (PER-498)
- Added settings to control the maximum length for arguments that are output in the performance statistic logs. For more information, see the stats.<type>.param.max.length settings of the inow.ini [Statistics] help topic in the Manage Content help. (PER-498)

Perceptive Content Client

- Resolved an issue where the system could not open documents that were exported or emailed as HTML documents. (PER-7334)

Perceptive Content File System Agent

- Ensured that database recovery is triggered appropriately for work processed by File System agent. (PER-7639)

Perceptive Content Integration Server

- Resolved an issue where Integration Server conversion, rendition or export calls could result in empty pages when GRAPHIC_DPI rendering options were adjusted in File Conversion Service configuration. (PER-8099)

Perceptive Content Workflow Agent

- Added Workflow agent settings to facilitate workload balancing customization: `work.queue.type.work.items.minimum`, `work.queue.type.work.items.maximum`, `work.queue.type.work.items.multiple`, `batch.work.items.maximum`, `minimum.work.item.batches`. For more information, see the `inserverWorkflow.ini` help topic in the Manage Content help and Workflow Agent performance tuning topic in the Workflow Designer help. (PER-498)

Perceptive Content Foundation EP4 (7.7.0.325) Release (April 10, 2023)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client

All Released Products

- Updated Perceptive Content to distribute OpenSSL 1.1.1t. (PER-7735)

Perceptive Content Client

- Resolved an issue where exporting documents with very large page files could cause the client to close unexpectedly. (PER-7722)

Perceptive Content Foundation EP4 (7.7.0.316) Release (March 10, 2023)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content Integration Server

- Perceptive Content Server
- Perceptive Content User Replication Agent

All Perceptive Content Agents

- Resolved an issue where iScript String object toUpperCase and toLowerCase methods could truncate double-byte character values. (PER-7256)

Perceptive Content Client

- Improved support for emailing Perceptive Experience Content Apps links to documents in Thunderbird email client. (PER-7383)
- Resolved an issue where capturing using Hyland Virtual Printer would use printer page settings instead of capture source profile page settings, such as landscape, legal, and A4 pages. (PER-7734)

Perceptive Content Integration Server

- Updated Integration Server session management to gracefully cleanup connection resources to Perceptive Content Server when a connection is disconnected. Perceptive Content Server must be running the same or newer version of Integration Server. (PER-7408)

Perceptive Content Server

- Updated Perceptive Content Server to gracefully cleanup connection resources when Integration Server disconnects a connection. (PER-7408)

Perceptive Content User Replication Agent

- Improved error handling in Perceptive Content User Replication Agent to prevent the unintended removal of users from the system when certain intermittent errors occur. (PER-7365)

Perceptive Content Foundation EP4 (7.7.0.304) Release (February 10, 2023)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client

All Perceptive Content Agents

- Added support for Oracle Instant Client with ODBC 21.8 on Windows. See the Perceptive Content Technical Specifications for ODBC driver and operating system compatibility. (PER-7666)

- Updated supported versions of Microsoft ODBC Driver 17 for SQL Server on Windows and Linux. See the Perceptive Content Technical Specifications for ODBC driver and operating system compatibility. (PER-7666)

Perceptive Content Client

- Updated Perceptive Content to allow login profile synchronization when launching new client applications when another client instance is running. For more information, see the `login.profile.client.sync.enable` setting of the `imagenow.ini` [General] settings help topic in the Manage Content help. (PER-7336)
- Resolved an issue with importing certain TIFF files. Additionally, you can now annotate LZW encoded TIFF images in the client. (PER-7459)

Perceptive Content Foundation EP4 (7.7.0.293) Release (December 16, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Business Insight
- Perceptive Content Client
- Perceptive Content Integration Server
- Perceptive Content Server

All Released Products

- Updated Perceptive Content to distribute OpenSSL 1.1.1q. (PER-7366)

All Perceptive Content Agents

- Perceptive Content now supports RabbitMQ 3.10 and 3.11. If upgrading from previous versions of RabbitMQ, refer to the Perceptive Content RabbitMQ Update Guide. (PER-7435)

Perceptive Business Insight

- Resolved an issue where some reports' sub-headings displayed reversed or flipped lettering. (PER-7445)
- Resolved an issue with scheduling and running reports when authenticated with OpenID. (PER-7457, PER-6943, PER-7325, PER-7326)

Perceptive Content Client

- Improved print scale functionality for digital signature annotations. (PER-6658)

Perceptive Content Integration Server

- Resolved an issue where form scripts would not execute if the blockContentTypeSniffingEnabled setting was set to TRUE in Apache Tomcat. (PER-7390)

Perceptive Content Server

- Resolved an issue with a delay in validating the Perceptive Content Server license on service start when the Hyland Cloud Licensing feature is enabled. (PER-4635)

Perceptive Content Foundation EP4 (7.7.0.268) Release (November 10, 2022)

The following components are included in this month's patch.

Product updates

All Perceptive Content Agents

- Resolved an issue where OSM physical object retrieval could concatenate error responses and physical object data when retrying transient OSM errors. (PER-7400)
- Resolved an issue where the system could not render retrieved page content or would incorrectly display it as text. (PER-7400)

Perceptive Content Foundation EP4 (7.7.0.268) Release (October 10, 2022)

The following components are included in this month's patch.

Product updates

All Perceptive Content Agents

- Perceptive Content now supports RabbitMQ 3.9. (PER-7335)
- Updated IXOS, AcuoStore, and Amazon S3 OSM plugins to minimize CPU utilization while streaming data from a remote server. (PER-6982)
- Updated Amazon S3 OSM plugin to resolve issues when attempting to establish a non-TLS connection on Windows to a remote S3 compatible instance. (PER-6982)
- Updated HTTP client libraries to minimize CPU utilization while streaming data from a remote server. (PER-6982)

Perceptive Content Foundation EP4 (7.7.0.261) Release (September 10, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Forms Server
- Perceptive Content Integration Server
- Perceptive Content OSM Agent

Perceptive Content Forms Server

- Added four new secure-processing options to the Java XML settings, `com.imagenow.xml.sax.parser.factory.secure.processing`, `com.imagenow.xml.document.builder.factory.secure.processing`, `com.imagenow.xml.schema.factory.secure.processing`, and `com.imagenow.xml.transformer.factory.secure.processing`. For more information, see the Configure Java XML topic in the Manage Content help. (PER-6942)
- Added four new settings, `forms.xsltcache.filesystem.size`, `forms.xsltcache.memory.size`, `forms.xsltcache.background.enabled`, and `forms.xsltcache.directory` to the [Forms] section in the `imagenowforms.settings` configuration file. These new settings improve form loading performance. The file system XSLT cache can only be used when using the XSLTC TransformerFactory. For more information, see the `imagenowforms.settings` parameter section in the Forms Server Installation Guide. (PER-6942)
- Resolved an issue that prevented some TransformerFactory implementations from creating Transformers in Forms Server. (PER-6942)

Perceptive Content Integration Server

- Resolved an issue where the Max-Age cookie attribute was not being set correctly. (PER-7286)
- Added support for an application session load balancer cookie. For more information, see the `integrationserver.ini session.load.balancer.cookie.enabled` setting in the Integration Server Installation Guide. (PER-7221)
- Added support for the `SO_KEEPALIVE` option on sockets created when connecting to Perceptive Content Server. For more information, see the `integrationserver.ini connection.socket.keep.alive.enabled` setting in the Integration Server Installation Guide. (PER-7222)
- Added four new secure-processing options to the Java XML settings, `com.imagenow.xml.sax.parser.factory.secure.processing`, `com.imagenow.xml.document.builder.factory.secure.processing`, `com.imagenow.xml.schema.factory.secure.processing`, and `com.imagenow.xml.transformer.factory.secure.processing`. For more information, see the Configure Java XML topic in the Manage Content help. (PER-6942)
- Added four new settings, `forms.xsltcache.filesystem.size`, `forms.xsltcache.memory.size`, `forms.xsltcache.background.enabled`, and `forms.xsltcache.directory` to the [Forms] section in the

integrationserver.ini configuration file. These new settings improve form loading performance. The file system XSLT cache can only be used when using the XSLTC TransformerFactory. For more information, see the integrationserver.ini file options section in the Integration Server Installation Guide. (PER-6942)

- Resolved an issue that prevented some TransformerFactory implementations from creating Transformers in Integration Server. (PER-6942)

Perceptive Content OSM Agent

- Updated physical object cleanup work to reschedule work items of OSM trees that are currently in recovery. (PER-6997)

Known issues

- The forms.xsltcache.directory setting in the imagenowforms.settings configuration file should only use relative paths. Using full paths will cause the filesystem xsltcache to fail if forms.xsltcache.filesystem.size is enabled.

Perceptive Content Foundation EP4 (7.7.0.253) Release (August 10, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client

Perceptive Content Client

- Resolved an issue where subsequent OpenID Connect logins may fail when using multiple OIDC profiles for different Perceptive Content environments. (PER-7218)
- Improved ability to triage OpenID Connect login flows in the Perceptive Content Client. (PER-7218)

Perceptive Content Foundation EP4 (7.7.0.248) Release (July 10, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client

Perceptive Content Client

- When using a non-English version of the client that does not have corresponding translated documentation, the Help button now opens the English documentation. (PER-7170)

Perceptive Content Foundation EP4 (7.7.0.239) Release (June 10, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content Server

Perceptive Content Client

- Resolved an issue where Document Viewer would incorrectly render numbers in Excel XLS. (PER-7118)
- Resolved an issue where saving a form with invalid characters could cause the client to close unexpectedly. (PER-7075)

Perceptive Content Server

- Resolved an issue where Forms Server allowed a document form to be submitted with the same keys as an existing document. (PER-7084)
- Optimized workflow privilege resolution for Route from Anywhere queues. (PER-5995)
- Optimized the allocation of converters used for transcoding data during message serialization and de-serialization. (PER-7149)
- Optimized the queries used to associate a view with a department when populating views privileges. (PER-7149)
- Added new settings to manage verbose logging for message protocol serialization and de-serialization. By default, these settings are enabled. For improved performance it is recommended that these settings are disabled. For more information, see the inow.ini [Debug] settings topic of the Manage Content help. (PER-7149)
- Added a new setting to configure the amount of time that a cross-node cache can be disconnected from the Message Queuing broker before going into an offline state. For more information, see the inow.ini [Cross Node Cache] settings topic of the Manage Content help. (PER-7150)
- Updated cross-node cache to have a grace period prior to taking the cache fully offline after disconnecting from the message queuing broker. (PER-7150)
- Revised recommended values for Message Queuing recovery reconnect intervals. For more information, see the [Message Queuing] settings topic of the Manage Content help. (PER-7150)

Perceptive Content Foundation EP4 (7.7.0.217) Release (May 10, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content Integration Server

Perceptive Content Client

- Updated OpenID Connect login to support Windows Integrated Authentication through Active Directory Federation Services (ADFS). (PER-7071)
- Added new settings to specify the trusted sites that you can use for integrated authentication. By default, these settings are derived from the Intranet trusted sites configured in the Windows Internet Properties. For more information, see the imagenow.ini [OpenID Connect Login Controls] settings topic of the Manage Content help. (PER-7071)

Perceptive Content Integration Server

- Updated spring framework dependencies to a newer version. (PER-7100)

Perceptive Content Foundation EP4 (7.7.0.209) Release (April 10, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content Server

All Perceptive Content Agents

- Improved error message content of installation errors caused by inability to access remote shared location. (PER-4609)

Perceptive Content Client

- Resolved an issue where Document Viewer would incorrectly render numbers in Excel XLS and XLSX files. (PER-4707)
- Resolved an issue where the system would not save repeating rows that were added to a form by a user when using Internet Explorer 11 browser Emulation mode. (PER-7005)

- Resolved multiple display issues with the client when OpenID Connect authentication was enabled. (PER-7072)

Perceptive Content Server

- Resolved an issue where a Perceptive Content Server session may fail to be promoted to active even though the current number of running Perceptive Content Server instances is within the concurrent license count. (PER-4985)
- Updated license monitoring to be performed by a single Perceptive Content Server instance in an Active-Active environment. (PER-4985)
- Updated Perceptive Content to handle connection cleanup in batches to minimize the possibility of database timeouts when attempting to start an agent that had many active connections when the instance was stopped. (PER-7038)
- Added a new setting, `inowd.session.cleanup.batch.size`, to the [Session Management] section in the `inow.ini` configuration file. For more information, see the `inow.ini` [Session Management] settings topic of the Manage Content help. (PER-7038)

Known issues

- When running Windows installers that install to a remote shared location, both the current user and the SYSTEM user must have access to the shared location at installation time. To login as a different user, you can use the **net use** command in both the current user and SYSTEM context.

A workaround for this issue, if you choose not to give both the current user and SYSTEM user access, is to update the `environment.ini` configuration file to use a local directory. To update the file, complete the following steps.

1. Migrate the shared location to a local location on the machine. For more information, refer to the Perceptive Content Shared Directory Migration Guide.
2. Run the installers.
3. Migrate the shared location back to the remote location. For more information, refer to the Perceptive Content Shared Directory Migration Guide.

Perceptive Content Foundation EP4 (7.7.0.195) Release (March 10, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content
- Perceptive Content Integration Server
- Perceptive Content Server

All Patched Products

- Updated the code signing certificate for Windows applications. (PER-6991)

Perceptive Content

- Improved stability by resolving multi-thread issues when using ImageGear. (PER-7023)

Perceptive Content Integration Server

- Improved handling of timed out socket connections to Perceptive Content Server. The `server.call.timeout.retry.enabled` setting was added to the [General] section of the `integrationserver.ini` configuration file. For more information, refer to the Appendix A: integration server.ini file options section of the Perceptive Integration Server Installation Guide. (PER-6889)
- Resolved issues with `server.call.retry.count` setting not correctly retrying the specified number of times after a call to Perceptive Content Server failed. (PER-6889)

Perceptive Content Server

- Added a new setting, `bypass.drawer.lock.on.capture`, to the [Capture] section in the `inow.ini` configuration file. For more information, see the `inow.ini` [Capture] settings topic of the Manage Content help. (PER-4603)
- Added a new setting, `enable.private.heap.allocators`, to the [Memory] section in the `inow.ini` configuration file. For more information, see the `inow.ini` [Capture] settings topic of the Manage Content help. (PER-6973)

Perceptive Content Foundation EP4 (7.7.0.180) Release (February 10, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content Server

Perceptive Content Client

- Addressed performance issues with message serialization. (PER-6921)

Perceptive Content Server

- Addressed performance issues with message serialization. (PER-6921)
- Improved database audit logging performance. (PER-4658)

Perceptive Content Foundation EP4 (7.7.0.174) Release (January 10, 2022)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Integration Server
- Perceptive Content Server

Perceptive Content Integration Server

- Resolved an issue where Forms Server failed to submit a form on the first attempt after a session timeout. (PER-4678)

Perceptive Content Server

- Resolved an issue where the system was not reading the Health Check IP address value specified in the inserver.ini configuration file. (PER-4607)
- Added a new condition, LICENSED, to the healthcheck.<healthCheckName>.conditions setting in the inserver.ini configuration file. For more information, see the inserver.ini [Health Check] settings topic of the Manage Content help. (PER-6893)

Perceptive Content Foundation EP4 (7.7.0.168) Release (December 10, 2021)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content File System
- Perceptive Integration Server

Perceptive Content Client

- Resolved an issue where creating a filter with a time constraint during Daylight Savings Time could cause the Time value to change back one hour. (PC-90356)

Perceptive Content File System

- Optimized queries used to select folder work items for processing to reduce chance of a timeout. (PC-90799)

- Reduced contention when processing folder asynchronous work items by limiting work to a single instance. (PC-90799)
- Updated log level for "document keys not found" message from information level to debug. (PC-90799)

Perceptive Content Integration Server

- Add a new setting, `sso.openid.profile.<profileName>.same.site.cookies.policy`, to the OpenID Connect Login Profiles section of the `integrationserver.ini` configuration file. For more information see the Appendix A: `integrationserver.ini` file options section of the Perceptive Integration Server Installation Guide. (PC-90798)

Perceptive Content Foundation EP4 (7.7.0.150) Release (November 10, 2021)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content Server
- Perceptive Integration Server

Perceptive Content Client

- Resolved an issue when outputting a document containing dynamic XFA PDF via print or export would stop with a message box. (PC-90695)
- Resolved an issue where the client could not open Microsoft Word or Excel HTML files. (PC-90736)

Perceptive Content Server

- Improved views performance on Microsoft SQL Server by adding support for the RECOMPILE query hint option. For more information, refer to the `inow.ini` [Views] settings topic of the Manage Content help. (PC-90730)
- Improved views performance by using the document table's creation time rather than the instance table's creation time. For more information, refer to the `inow.ini` [Views] settings topic of the Manage Content help. (PC-90728)
- Limited the size of audit detail entries stored in the database to improve performance. Added additional settings to be able to configure length of stored values. For more information, refer to the `inow.ini` [Audit] settings topic of the Manage Content help. (PC-90734)
- Updated session monitoring to be performed by a single Perceptive Content Server instance in an Active-Active environment. (PC-90746)

Perceptive Content Integration Server

- Resolved an issue where an anonymous Forms Server user could access Integration Server APIs unrelated to forms. (PC-90753)
- Added a new call, GET /v3/user, which gets users matching a supplied search term. (PC-90700)
- Two new settings, `server.call.retry.count` and `connection.timeout.socket` were added to [General] section of the `integrationserver.ini` configuration file. For more information, see the Appendix A: `integrationserver.ini` file options section of the Perceptive Integration Server Installation Guide. (PC-90680)

Perceptive Content Foundation EP4 (7.7.0.139) Release (October 10, 2021)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content Server
- Perceptive Content Fax Agent
- Perceptive Content OSM Agent

All Released Products

- Resolved an issue where uninstall or repair may fail for the following installers: (PC-90655)
 - Perceptive Content Full Client
 - Perceptive Content Fax Agent
 - Perceptive Content File Processing Agent
 - Perceptive Content iConvert
 - Perceptive Content Output Agent
 - Perceptive Content Server
 - Perceptive Content User Replication Agent

All Perceptive Content Agents

- Updated method used to update the last access time on IN_PHSOB_CACHE database records. (PC-90666)

Perceptive Content Client

- Resolved an issue in Workflow Viewer/Explorer where the Launch Associated Application button would not work. (PC-90681)

Perceptive Content Server

- Added support for TCP health checks for monitoring database availability and user login status. For more information see the `inserver.ini` [Health Checks] settings topic of the Manage Content help. (PC-90218)

Perceptive Content Fax Agent

- Updated installer to include installation location and version in registry. (PC-90655)

Perceptive Content OSM Agent

- Resolved an issue where physical object records could not be deleted after being copied between OSM sets. (PC-90666)
- Resolved an issue with lock contention on the `IN_PHSOB_CACHE` table when deleting physical objects that do not have a `IN_PHSOB_CACHE` record. (PC-90666)

Perceptive Content Foundation EP4 (7.7.0.128) Release (September 10, 2021)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content File System
- Perceptive Content Integration Server
- Perceptive Content Server
- Perceptive Forms Server

All Released Products

- Resolved an issue where large file sizes could not be represented. Improved support for storing and receiving large files. (PC-89776)

Perceptive Content File System

- Resolved issue with contention between two File System Agent instances attempting to perform the same work when running in active-active. (PC-90497)
- Added settings to be able to parallelize destroy work actions. For more information, refer to the `inserverFS.ini` topic of the Manage Content help. (PC-90497)

Perceptive Content Integration Server

- Resolved an issue where the service status endpoint would cause a socket error in Perceptive Content Server logs. (PC-90603)

- Updated documentation regarding the `log.level.thirdparties` setting in Integration Server. (PC-90618)
- Updated `stream.transfer.chunk.size` default value to facilitate large file streams. (PC-89776)
- Resolved an issue that could cause certain forms to not load properly. (PC-90590)
- Updated the `web.xml` configuration file to include the authorization header under the `cors.allowed.headers` parameter. This header is required to log into Android devices using OIDC sessions. (PC-90595)

Perceptive Content Server

- Added configuration for buffer sizes used to stream content. Updated default values to facilitate large file streams. (PC-89776)
- Resolved an issue with the system incorrectly truncating data written to the database as part of the Search Audit. (PC-90647)
- `iScript INStream.read(Buffer, int, int)` member function cannot be used for streams over 1GB in size. (PC-90610)
- Resolved an issue with the system incorrectly truncating data written to the database as part of the Search Audit. (PC-90647)
- Reviewed and updated database transactions to ensure transactions would be fully rolled back prior to establishing a new transaction context. (PC-90639)
- Resolved a database locking issue that could result in errors in the session monitor log file. (PC-90639)
- Resolved incorrect error message displayed when a select lock statement is made on the same record with `NOWAIT` specified. (PC-90639)

Perceptive Forms Server

- Resolved an issue that could cause certain forms to not load properly. (PC-90590)

Known issues

- Amazon S3 OSM plugin does not support streaming objects larger than 2.3GB.

Perceptive Content Foundation EP4 (7.7.0.111) Release (August 10, 2021)

The following components are included in this month's patch.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Business Insight
- Perceptive Content Client

- Perceptive Content Integration Server
- Perceptive Content Server

All Perceptive Content Agents

- Updated Amazon S3 plugin to support `ObjectKeyNameSuffix` property. Refer to the Perceptive Content External OSM Plugin Best Practices Guide for more information. (PC-90588)

Perceptive Business Insight

- Business Insight now views reports using the browser that is set as the default browser on the user's workstation. (PC-90446)

Perceptive Content Client

- Resolved an issue in Perceptive Management Console that prevented the user from adjusting the column widths on the **Custom Properties** tab in the **Modify <Item> Type** dialog box. (PC-90200)

Perceptive Content Integration Server

- Resolved an issue with cookie authentication when `X-IntegrationServer-Encode-Headers` is specified on the request. (PC-90529)
- Updated documentation for document API calls to include only supported values for the `actionType` query parameter. (PC-90213)

Perceptive Content Server

- Resolved an issue that could cause server instability when deleting a large batch of pages simultaneously. (PC-90383)
- Added the intool command `osm-tree-in-place-transfer` which allows in-place migration of physical objects from a source OSM tree to an existing destination OSM tree. Refer to the intool OSM Commands help topic for more information. (PC-90588)
- Updated Perceptive Content Server to be able to retrieve physical objects that have been migrated from an FSS OSM tree to an EXT OSM tree. (PC-90588)

Perceptive Content Foundation EP4 Release (June 2021)

The following enhancements and updates are included in the initial release of Perceptive Content Foundation EP4.

Product updates

This section provides, in alphabetical order, an overview of updates made to existing functionality.

- Perceptive Content Client
- Perceptive Content iConvert
- Perceptive Content Integration Server

- Perceptive Content Job Agent
- Perceptive Content Management Console
- Perceptive Content Output Agent
- Perceptive Content Recognition Agent
- Perceptive Content Server
- Perceptive Content Workflow Agent

All Released Products

- Updated Perceptive Content client/server connection negotiation configuration. (PC-89825)
- Updated Perceptive Content to distribute OpenSSL 1.1.1k. (PC-90324)

All Perceptive Content Agents

- Resolved an issue where Amazon S3 OSM plugin did not include Content-Length header when storing large objects. (PC-90071)
- Resolved an issue on Windows where Amazon S3 OSM plugin would not correctly handle optional TLS client authentication. (PC-90071)
- Updated default ODBC settings for Oracle to enable OCIDescribeAny. Resolves an issue where client information could not be set when connecting to a pluggable database using Oracle instantclient ODBC drivers. (PC-90043)
- A new setting, `odbc.oracle.set_client_info.enabled`, was added to the [ODBC] section of the `inow.ini` configuration file. This setting is enabled by default. For more information see the `inow.ini` [ODBC] settings topic of the Manage Content help. (PC-90043)
- Improved detection of currently installed Perceptive Content agents in Windows installers. (PC-89488)
- Updated Windows installers to encrypt prompted passwords during installation. (PC-89488)
- Updated Windows installers to support installing configuration files into the Active-Active shared directory. (PC-89488)
 - Fax Agent
 - File Processing Agent
 - iConvert Agent
 - Recognition Agent
 - User Replication Agent
- Updated Windows installers to install Monitor Agent configuration files into the Active-Active shared directory. (PC-89488)
- Updated Linux compiler used to build Perceptive Content agents and components. (PC-90019)
- Added support for Oracle native ODBC drivers on Linux. (PC-89529)
- Added support for Oracle Instant Client with ODBC 19.11 and 21.1. See the Perceptive Content Technical Specifications for ODBC driver and operating system compatibility. (PC-89529)

Perceptive Content Client

- Resolved an issue that prevented the system from populating the drawer after calling the `INSetViewerKeys` API call with a valid Drawer. (PC-89291)
- Added support for Unicode characters in login profile names in the Perceptive Content Client installer. (PC-89488)
- Perceptive Content now supports KeyView 12.8. (PC-89824)
- Resolved an issue where .EML files would render as text files. (PC-89668)
- Resolved an issue where the client would unexpectedly close when attempting to render certain email files. (PC-89590)

Perceptive Content iConvert

- Added installer dialogs to configure source and destination database ODBC settings. (PC-89488)

Perceptive Content Integration Server

- Resolved an issue where an error was encountered when downloading, exporting, or printing a document with a large number of pages. (PC-89041)
- Added Integration Server authorization API to support issuing Integration Server API bearer tokens. (PC-89798)
- Updated Integration Server Request Headers documentation to include **X-IntegrationServer-Client-Hostname** header. This header should be specified when multiple client sessions are being established from a single host. (PC-90210)
- Added support for bearer token authentication using Perceptive Content access tokens. Perceptive Content access tokens must specify Perceptive Content bearer token scopes for supported Integration Server API operations. Refer to the Integration Server Operations documentation for more information. (PC-89017)
- Added support for the "psw-document-page-get" Perceptive Content access token scope, which can be used for document page retrieval. See the Integration Server Scopes reference documentation for more information on Perceptive Content bearer token scopes. (PC-89017)
- Resolved an issue where OPTIONS calls against Integration Server endpoints would return 500 errors when CORS filters were disabled. (PC-90335)
- Resolved an Integration Server memory growth issue caused by leaked session caches. (PC-89001)
- Revised best practices for Integration Server Java memory options. Refer to Appendix D: Java Memory configuration in the [Integration Server on Tomcat Installation Guide](#) or [Integration Server on WebSphere Installation Guide](#) for more information. (PC-90025)

Perceptive Content Job Agent

- Resolved a potential database timeout when a large number of job records are waiting for deletion. (PC-90414)

Perceptive Content Management Console

- Added support for managing Perceptive Content users that are permitted to be used in Client Credentials Bearer profiles. (PC-90202)

Perceptive Content Output Agent

- Resolved an issue where a clean installation of Output Agent on Windows overwrites inow.ini ODBC settings. (PC-89047)
- Output Agent now supports KeyView 12.8. (PC-89824)
- Resolved an issue where .EML files would render as text files. (PC-89668)

Perceptive Content Recognition Agent

- Updated the default value for the inserverRec.ini orc.dir setting to be "\$\IMAGENOWLOCALDIR6\ocr". (PC-89488)

Perceptive Content Server

- Resolved an issue where audit details were missing document key and custom property values when executing relationship views. (PC-89795)
- Updated Perceptive Content Server installer to detect Active-Active directory locations using the environment.ini file. (PC-89488)
- Added validation of Integration Server API bearer tokens and enforcement of Perceptive Content bearer token scopes. (PC-89016)
- Resolved an issue where view results containing the STX ASCII character could cause view runs to fail with an error. (PC-89549)
- Added support for OAuth 2.0 token introspection for Perceptive Content Bearer profiles. (PC-90201)
- Updated Bearer profiles to support OAuth client credentials flows and mapping of OAuth clients to Perceptive Content users for machine to machine integrations. (PC-90202)
- Added remove-inactive-bearer-profiles intool command to cleanup unused bearer profiles from the Perceptive Content database. (PC-90202)

Perceptive Content Workflow Agent

- Revised default values for workflow queue scheduling to be more efficient. This may increase inserverWorkflow system load. (PC-90444)
- Documented additional Perceptive Content Workflow agent settings and best practices to improve throughput. See **Workflow Agent Performance Tuning** and **inserverWorkflow.ini** Help Topics for more information. (PC-90455)

Known issues

In an Active-Active environment, configuration files in the local etc directory may be removed when upgrading to Perceptive Content EP4. Back up all configuration files prior to upgrade and ensure all desired settings are applied in the shared etc directory.