



Connector Release Notes

/ ForgeRock Identity Cloud 7.2

Latest update: 7.2.0

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Abstract

Release notes for the connectors that are supported with ForgeRock® Identity Cloud software. These release notes cover changes to each supported connector that has been released since Identity Cloud 6.5.0.



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Overview

These release notes cover the ICF connector releases that are supported in a deployment of ForgeRock Identity Cloud.

Quick Start



Connectors Overview

Lists the ICF connector releases.



ICF Releases

Lists the releases of the ForgeRock Open Connector Framework.

This document does not describe all ICF connectors. Additional connectors are available from the [early access download site](#). If a connector release is listed here but is not yet on the site, contact ForgeRock Support for access.

ForgeRock Identity Platform™ serves as the basis for our simple and comprehensive Identity and Access Management solution. We help our customers deepen their relationships with their customers, and improve the productivity and connectivity of their employees and partners. For more information about ForgeRock and about the platform, see <https://www.forgerock.com>.

The ForgeRock Common REST API works across the platform to provide common ways to access web resources and collections of resources.

Chapter 1

Connector Release Notes Overview

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud or the Remote Connector Server share a unified version number.

Recently Updated Connectors

Connector	Version	Date
Remote Connector Server (RCS)	1.5.20.2	2021/07/27
LDAP Connector	1.5.20.2	2021/07/27
Workday Connector	1.5.20.2	2021/07/27
CSV Connector	1.5.20.2	2021/07/27
MS Graph API Connector	1.5.20.2	2021/07/27
RCS Agent	1.5.20.1	2021/05/28
Database Table Connector	1.5.20.1	2021/05/28
RCS Agent	1.5.20.0	2021/04/09
ICF Connector Framework and Connectors	1.5.20.0	2021/04/09
ICF Connector Framework and Connectors	1.5.19.6	2021/02/26
ICF Connector Framework and Connectors	1.5.19.5	2021/02/12
ICF Connector Framework and Connectors	1.5.19.4	2021/01/22
ICF Connector Framework and Connectors	1.5.19.3	2020/12/13
ICF Connector Framework and Connectors	1.5.19.2	2020/11/30
ICF Connector Framework and Connectors	1.5.19.1	2020/11/18
ICF Connector Framework and Connectors	1.5.19.1	2020/10/20
ICF Connector Framework	1.5.18.0	2020/09/14
Adobe Campaign Manager Connector	1.5.18.0	2020/09/14
CSV File Connector	1.5.18.0	2020/09/14
Database Table Connector	1.5.18.0	2020/09/14
Google Apps Connector	1.5.18.0	2020/09/14
Groovy Connector Toolkit	1.5.18.0	2020/09/14

Connector	Version	Date
Kerberos Connector	1.5.18.0	2020/09/14
LDAP Connector	1.5.18.0	2020/09/14
Marketo Connector	1.5.18.0	2020/09/14
MongoDB Connector	1.5.18.0	2020/09/14
Salesforce Connector	1.5.18.0	2020/09/14
SCIM Connector	1.5.18.0	2020/09/14
Scripted REST Connector	1.5.18.0	2020/09/14
Scripted SQL Connector	1.5.18.0	2020/09/14
ServiceNow Connector	1.5.18.0	2020/09/14
SSH Connector	1.5.18.0	2020/09/14
Workday Connector	1.5.18.0	2020/09/14
ICF Connector Framework	1.5.17.1	2020/09/09
ICF Connector Framework	1.5.17.0	2020/08/25
Workday Connector	1.5.3.0	2020/08/24
ICF Connector Framework	1.5.16.0	2020/08/21
Adobe Campaign Manager Connector	1.5.4.0	2020/08/21
CSV File Connector	1.5.7.0	2020/08/21
Database Table Connector	1.5.3.0	2020/08/21
Google Apps Connector	1.4.9.0	2020/08/21
Groovy Connector Toolkit	1.5.7.0	2020/08/21
Kerberos Connector	1.5.5.0	2020/08/21
LDAP Connector	1.5.5.0	2020/08/21
Marketo Connector	1.5.4.0	2020/08/21
MongoDB Connector	1.5.6.0	2020/08/21
Salesforce Connector	1.5.7.0	2020/08/21
SCIM Connector	1.5.8.0	2020/08/21
Scripted REST Connector	1.5.6.0	2020/08/21
Scripted SQL Connector	1.5.5.0	2020/08/21
ServiceNow Connector	1.5.5.0	2020/08/21
SSH Connector	1.5.6.0	2020/08/21
SCIM Connector	1.5.2.0	2020/03/12
LDAP Connector	1.5.1.0	2020/02/18
ServiceNow Connector	1.5.1.0	2020/02/12

Connector	Version	Date
Salesforce Connector	1.5.3.0	2020/02/12
Salesforce Connector	1.5.2.0	2019/12/11
Database Table Connector	1.4.4.0	2019/11/07
Workday Connector	1.5.1.0	2019/10/18
Generic LDAP Connector	1.5.0.0	2019/10/04
Google Apps Connector	1.4.7.0	2019/09/27
Workday Connector	1.4.1.0	2019/09/27
Database Table Connector	1.4.3.0	2019/09/25
Connector Framework	1.5.9.0	2019/08/28
Database Table Connector	1.4.2.0	2019/08/22
Scripted REST Connector	1.5.2.0	2019/07/01
Scripted CREST Connector	1.5.2.0	2019/06/28
Connector Framework	1.5.8.0	2019/06/27
Connector Framework	1.5.7.0	2019/06/26
Groovy Connector Toolkit	1.5.2.0	2019/06/28
Salesforce Connector	1.5.1.0	2019/06/26
Generic LDAP Connector	1.4.11.0	2019/06/18
SCIM Connector	1.5.1.0	2019/05/15
Workday Connector	1.5.0.0	2019/05/15
Google Apps Connector	1.4.6.0	2019/05/10
Google Apps Connector	1.4.5.0	2019/04/30
SCIM Connector	1.5.0.0	2019/04/30
Generic LDAP Connector	1.4.10.0	2019/03/21
Generic LDAP Connector	1.4.9.0	2019/02/26
Connector Framework	1.5.6.0	2018/12/03
Adobe Campaign Manager Connector	1.5.2.0	2018/12/03
CSV File Connector	1.5.4.0	2018/12/03
Database Table Connector	1.4.1.0	2018/12/03
Google Apps Connector	1.4.4.0	2018/12/03
Groovy Connector Toolkit	1.5.1.0	2018/12/03
Kerberos Connector	1.5.1.0	2018/12/03
Generic LDAP Connector	1.4.8.0	2018/12/03
Marketo Connector	1.5.1.0	2018/12/03

Connector	Version	Date
MongoDB Connector	1.5.1.0	2018/12/03
Powershell Connector	1.4.6.0	2018/12/03
Salesforce Connector	1.5.0.0	2018/12/03
SCIM Connector	1.4.3.0	2018/12/03
Scripted CREST Connector	1.5.1.0	2018/12/03
Scripted REST Connector	1.5.1.0	2018/12/03
Scripted SQL Connector	1.5.1.0	2018/12/03
SSH Connector	1.5.1.0	2018/12/03
HubSpot Connector	1.5.0.0	2018/11/27
SAP Connector	1.5.0.0	2018/09/05
ServiceNow Connector	1.5.0.0	2018/09/05
Workday Connector	1.4.0.0	2018/09/05

Chapter 2

Connector Framework

1.5.20.0

- OPENICF-1366: Java Connector Server: /setDefault does not revert config to default properly
- OPENICF-1502: RCS: requests not cancelled when websocket closes
- OPENICF-1538: MS Graph API Connector: Sync() does not work
- OPENICF-1540: RCS: requests bearer token from AM, but doesn't look for error status code in response
- OPENICF-1541: MS Graph API Connector: Add ConsistencyLevel: eventual' header and \$count=true for endsWith filter
- OPENICF-1544: Fix double-checked locking in WebSocketConnectionGroup
- OPENICF-1549: Update default ConnectorServer.properties
- OPENICF-1550: RCS Agent: improve tracking sync request/responses
- OPENICF-1552: RCS Agent files available for customers to create their own Docker image
- OPENICF-1553: MongoDB Connector: convertBSONtoICF() does not traverse Arrays.
- OPENICF-1555: Clarify locking behavior in ConnectorServer for Grizzly server lifecycle
- OPENICF-1557: MS Graph API Connector: Handle user employeeHireDate attribute and Calendar data type
- OPENICF-1558: MS Graph API Connector: Make sure sortKey is supported by the objectClass
- OPENICF-1559: MS Graph API Connector: Implement Authenticate() call
- OPENICF-1561: RCS: Reduce log level for common debug messages
- OPENICF-1563: RCS Agent: update Maven dependencies
- OPENICF-1566: Framework: ICF Jetty servlet default maxMessageSize is too small
- OPENICF-1586: LDAP Connector: Timestamp sync strategy: Synchronization filters are not used properly

- OPENICF-1589: SCIM Connector: NPE caused by exception not properly handled
- OPENICF-1591: SCIM Connector: Parsing OAuth response should not fail on unknown properties
- OPENICF-1595: MS Graph API Connector: test() should connect to the MS Graph endpoint to validate the connection
- OPENICF-1598: SCIM Connector: NPE when updating attribute with null value
- OPENICF-1600: SCIM Connector: unknown attributes in a query result should not throw parsing exception
- OPENICF-1601: SCIM Connector: Implement a global connection timeout property
- OPENICF-1560: LDAP Connector: RFE Disable Paged Results Control

Note

For a list of security issues addressed in this release, see the related Security Advisory in the ForgeRock Knowledge Base.

1.5.19.6

- OPENIDM-16178: IDM recon would fail w/ remote Java connector server

1.5.19.5

- OPENICF-1493: MS Graph API Connector: add the ability to read/assign license for the user
- OPENICF-1504: Workday Connector: SyncToken should be updated even if no events
- OPENICF-1506: Workday Connector: SyncToken should be set to tenant timestamp after call to sync()
- OPENICF-1507: MS Graph API Connector: add the ability to read subscribedSku object
- OPENICF-1508: Workday Connector: Query on SCR objects should not include date range as a search criteria
- OPENICF-1510: Errors in Database Table Connector docs
- OPENICF-1516: Failed ICF Search Query confuses total number of search results
- OPENICF-1518: SCIM connector: Http client ConnectionManager is not set properly
- OPENICF-1520: Java RCS: Connection groups can accumulate many more websockets than they should have
- OPENICF-1522: Salesforce Connector : implement StatefulConfiguration to allow persistence of accessToken in memory

- OPENICF-1523: ScriptedGroovy connectors fail to load in IDM 7.x when embedded Groovy version does not match IDM Groovy version
- OPENICF-1525: MS Graph API Connector: replace the default Graph SDK logger
- OPENICF-1526: MS Graph API Connector: add the ability to read Team objects
- OPENICF-1530: system?_action=createFullConfig validation does not return consistent errors
- OPENICF-1533: RCS Agent: RCS to not send "connection closing soon" error when Host ID is set
- OPENICF-1499: MS Graph API Connector: remove the maximumConnections property

1.5.19.4

- OPENICF-1486: Java RCS: Connection housekeeping task may stop running
- OPENICF-1494: Java RCS: Housekeeping task gets blocked
- OPENICF-1497: RCS Agent: IDM connection cannot be resumed after period of time
- OPENICF-1500: Java RCS: Improve default logging
- OPENICF-1485: Java RCS: Non operational ConnectionGroup should be closed and removed

1.5.19.3

- OPENICF-1475: MS Graph API Connector: the 'manager' only returns the id and not the full object
- OPENICF-1481: MS Graph API Connector: add the ability to assign/remove user's manager
- OPENICF-1482: Java RCS: fails to reestablish connections to IDM after IDM is restarted
- OPENICF-1483: MS Graph API Connector: can't remove all groups a user belongs to
- OPENICF-1471: Salesforce Connector: should not implement PoolableConnector interface

1.5.19.2

- OPENICF-1448: LDAP Connector: Enabling changelog livesync for oracle unified directory (OUD)
- OPENICF-1466: LDAP Connector: Update filterWithOrInsteadOfAnd to apply to timestamp and Active Directory liveSync
- OPENICF-1467: RCS: endless loops on connection loss and shutdown
- OPENICF-1469: MS Graph API Connector: implement a read/write rate limiter

- OPENICF-1472: LDAP Connector: Data not synced from AD to IDM via livesync on __ALL__ object
- OPENICF-1401: SCIM Connector: Align exceptions for not configured (blank/null) configurationProperties
- OPENICF-1470: LDAP Connector: Null Check in ADUserAccountControl.addControl

1.5.19.1

- OPENICF-1352: Salesforce connector: pagination and cookies not working properly
- OPENICF-1383: Workday Connector: Upgrade to API v35.0
- OPENICF-1419: Workday Connector: Implement Service Center Representative object type
- OPENICF-1426: Workday Connector: Ability to update email for Service Center Representative object
- OPENICF-1432: Workday Connector: Implement OR filter
- OPENICF-1433: SSH connector: Kerberos username prompt for public key and password auth
- OPENICF-1444: SCIM connector - provide support for 'scope'
- OPENICF-1445: SSH connector: Stale or disconnected SSH sessions are not detected when borrowing from the pool
- OPENICF-1446: MS Graph API Connector: implement PoolableConnector
- OPENICF-1447: Workday Connector: add the Contingent_Worker_ID as a search criteria

1.5.19.0

Note

Starting in version 1.5.19.0, ICF connectors that previously had external library dependencies now have those dependencies bundled inside the connector.

- OPENICF-1388: LDAP Connector 1.5.5.0 throws java.lang.NoSuchMethodError on Java 8
- OPENICF-1393: Java Connector Server: useSSL property use should be clarified
- OPENICF-1394: missing connectorserver.scope in connectorserver property file
- OPENICF-1395: Investigate and clean up the following start up error message
- OPENICF-1396: OPENIDM-15448 changes seemingly broke querying ldap via the data tab
- OPENICF-1397: Java Connector Server: javax.net.ssl trustStore and keyStore properties should be set

- OPENICF-1399: restarting IDM with active RCS causes RCS to decrement websocket connection count
- OPENICF-1400: Java Connector Server: Property name usessl should match docs and code
- OPENICF-1404: Java connector server proxy config for port is incorrect
- OPENICF-1408: Java RCS: NPE when we set proxyHost for client mode
- OPENICF-1413: Use framework version 1.5.11.0 for ldap-connector to support Java8-compatible release
- OPENICF-1414: Scripted Groovy (v3) based connectors fail to load with IDM releases prior to 7.0
- OPENICF-1407: Java RCS: Incorrect url in Debug message of HttpRequestPacket header for non-SSL

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- OPENICF-1392: Java Connector Server: TTL should be in seconds
- OPENICF-1390: Java RCS: Prevent use of websockets that are about to be closed
- OPENICF-1371: Java Connector server does not always reestablish closed websockets

1.5.17.1

Version 1.5.17.1 is bundled with the Identity Cloud 7.0.1 release.

- OPENICF-1379: Java RCS: Staggered connection starts, if websocketConnections > 1

1.5.17.0

- OPENICF-1378: Java RCS: Connection TTL should be in minutes, not hours
- OPENICF-1375: Java RCS: Add the ability to connect to multiple IDM endpoints
- OPENICF-1373: Java RCS: default connectorserver.connectionTtl breaks the connection housekeeping

1.5.16.0

Version 1.5.16.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1345: Framework: Compilation errors with FR Commons 26.0.0-20200630110301-422ca12
- OPENICF-1289: Framework: ConnectorObject should default the Name to Uid if Name is not present
- OPENICF-1288: Framework: upgrade all connectors to latest for jdk11/groovy3 move
- OPENICF-1259: Framework: use FR parent variables for maven plugins version
- OPENICF-1255: Framework: upgrade to latest forgerock-parent 4.0.5
- OPENICF-1206: Framework: upgrade protobuf dep to 3.10.0
- OPENICF-1202: Framework: Docker - Connector Server should embed a set of default connectors
- OPENICF-1200: Framework: project modules should not depend on maven profiles
- OPENICF-1196: Framework: Docker - Connector Server should be able to read System properties over Config properties
- OPENICF-1186: Framework: Build Docker image for Java Connector Server
- OPENICF-1185: Framework: Remove reference to Grizzly version
- OPENICF-1184: Framework: Comment properties that have a default value in ConnectorServer.properties
- OPENICF-1182: Framework: ConnectorException thrown by config properties not properly set
- OPENICF-1179: Framework: availableConnectors are not updated after remote ICF shut down
- OPENICF-1177: Framework: PoolableConnector instances that have been idle for too long should be disposed
- OPENICF-1173: Framework: decrease log level of LittleProxy module
- OPENICF-1172: Framework: reactivate commented unit test for connector-server-grizzly module
- OPENICF-1169: Framework: upgrade openicf maven plugin and forgerock-parent version

1.5.9.0

- OPENICF-1157: Framework: ICF servlet should verify valid RCS names is not null or empty
- OPENICF-1151: Framework: Refactor LoadBalancingConnectorInfoManager
- OPENICF-1142: JCS Client mode: Valid Connector Server name should be enforced in the ICF servlet

- OPENICF-1141: JCS Client mode: Handshake negotiation pause is never used

1.5.8.0

- OPENICF-1122: Update ICF to commons 26

1.5.7.0

- OPENICF-1110: Framework: upgrade to latest forgerock-parent 3.2.1
- OPENICF-1061: JCS Client mode: Make the application level heartbeat configurable
- OPENICF-1059: JCS Client mode: Implement SSL for the client mode
- OPENICF-1058: JCS Client mode: verify all the close() routines
- OPENICF-1044: JCS is missing dependencies for groovy 1.5.2.0-SNAPSHOT
- OPENICF-1020: Remove dependency upon forgerock-guava from java-framework
- OPENICF-885: Framework: investigate why connector-server-grizzly:LoadBalancingConnectorInfoManagerTest breaks the Jenkins build
- OPENICF-577: Java Remote Connector Server should be able to initiate connection to IDM

1.5.6.0

Version 1.5.6.0 is bundled with Identity Cloud version 6.5.0 by default.

- OPENICF-993: DotNetConnectorServer - _pagedResultsCookie throws 500 on last page
- OPENICF-992: .Net Connector server: WCF should be the default web socket library
- OPENICF-986: .NET Connector Server - Failed to Accept WebSocket
- OPENICF-984: .Net Connector server: Upgrade to 1.5.6.0
- OPENICF-971: Disable Javascript engine in ICF
- OPENICF-962: Java Framework: update to FR guava 26 has side effects on connector server unit tests
- OPENICF-961: Java Framework: Add unit test for Javascript executor factory
- OPENICF-942: Framework: some modules have jdk 1.6 compile flag - should be removed
- OPENICF-872: OpenICF java-framework does not build with unit tests enabled since making the results handlers the responsibility of the connector implementation
- OPENICF-867: Framework: __NAME__ should not be set to 'required' by default

- OPENICF-785: .NET connector server - ConnectorServerService.exe doesn't use value from / serviceName
- OPENICF-734: Upgrade Java connector server dependencies
- OPENICF-732: Upgrade .Net connector server dependencies
- OPENICF-676: .Net Connector Server should include the PowerShell sample templates

Chapter 3

Adobe Marketing Cloud Connector

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.4.0

Version 1.5.4.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1270: Adobe Campaign Manager connector: Bump up to ICF 1.5.11.0

1.5.2.0

Version 1.5.2.0 is bundled with the Identity Cloud 6.5.0 release.

- OPENICF-899: Adobe CM: Make scope configurable

Chapter 4

CSV File Connector

1.5.20.2

OPENICF-1677: CSV Connector returns pagedResultsCookie for queries with _pageSize=0.

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

- OPENICF-1530: system?_action=createFullConfig validation does not return consistent errors

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.7.0

Version 1.5.7.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1274: CSV Connector: Bump up to ICF 1.5.11.0
- OPENICF-1137: CSV Connector: Enforcement of static import rules
- OPENICF-1051: Empty CSV file causes waiting circle when attempting to access CSV connector page

1.5.4.0

Version 1.5.4.0 is bundled with the Identity Cloud 6.5.0 release.

- OPENICF-810: Wrong or uncomplete error reported when creating a CSV connector
- OPENICF-799: CSV livesync keeps token files
- OPENICF-791: Error/Warning isn't displayed when "Uid" missing at record
- OPENICF-789: Missing check for headerUid if it exists in csv file data
- OPENICF-784: CSV Connector should skip byte order marks

- OPENICF-781: Increasing column number within CSV files causes SuperCSV exception
- OPENICF-773: CSV: Schema call result should not include __UID__
- OPENICF-711: Fix error reporting when using blank column names

Chapter 5

Database Table Connector

1.5.20.1

- OPENICF-1477: Database Table Connector: ORA-01000: maximum open cursors exceeded
- OPENICF-1596: PSQLErrorException: FATAL: terminating connection due to idle-in-transaction timeout

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

- OPENICF-1510: Errors in Database Table Connector docs

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.3.0

Note

Version 1.5.3.0 is bundled with the Identity Cloud 7.0.0 release. This version updates the connector to use version 1.5 of the ICF API. If you are upgrading from an earlier version of the connector, update your provisioner configuration file to accommodate these changes. For more information, see "Database Table Connector" in the *Connectors Guide*.

- OPENICF-1297: Database Table Connector: Sync Logic Missing Changed Records
- OPENICF-1286: Database Table Connector: Fix javadoc
- OPENICF-1285: Database Table Connector: Fix build warnings
- OPENICF-1238: Database Table Connector: Upgrade to ICF 1.5 API

- OPENICF-1212: Database Table Connector: Use Tomcat JDBC pool
- OPENICF-1201: Database Table Connector: Disabling through admin UI recreates a database connection

1.4.4.0

- OPENICF-1183: Database Table Connector: sql syntax incorrect for ms sql 2012 query using pageSize

1.4.3.0

- OPENICF-1167: Database Table Connector: ICF special attributes should never be used as sort keys
- OPENICF-1164: Database Table Connector: Change the connector license to CDDL
- OPENICF-1154: DataBase Table Connector: rest query on remote endpoint with id as a string returns HTTP 400

1.4.2.0

- OPENICF-903: Database Table Connector incorrectly requires __NAME__ attribute within CREATE request

1.4.1.0

Version 1.4.1.0 is bundled with Identity Cloud version 6.5.0 by default.

- OPENICF-933: ORA-00933: SQL command not properly ended

Chapter 6

Google Apps Connector

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.4.9.0

Version 1.4.9.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1279: Google Apps Connector: Bump up to ICF 1.5.11.0

1.4.7.0

- OPENICF-1180: Google Apps Connector: Bad dependencies version
- OPENICF-1153: Google Apps Connector: suspended query
- OPENICF-1152: Google Apps connector: Add the ability to Sync custom attributes
- OPENICF-1118: Google Apps Connector: Update googleapps deps
- OPENICF-1101: GoogleApps Connector: Google member recon failing

1.4.6.0

- OPENICF-1093: Google Apps Connector: Only EqualsFilter('groupKey') is supported - error

1.4.5.0

- OPENICF-1090: Google Apps Connector: Change the connector license to CDDL
- OPENICF-1087: GoogleApps Connector: DELETE on self should return 400 Bad Request

- OPENICF-1085: GoogleApps Connector: configuration properties should throw warning with invalid values
- OPENICF-1079: Google Apps Connector: Google's APIs require a "familyName" at create time for accounts and generic purpose accounts don't have family names
- OPENICF-1078: GoogleApps Connector: Several attributes with eq filters are returning 500 Errors
- OPENICF-1077: GoogleApps Connector: Incorrect error on GET __GROUP__ with queryFilter
- OPENICF-1069: Google Apps Connector: Ability to query by orgUnitPaths
- OPENICF-1065: Google Apps Connector: Unsupported OR queries return inappropriate messages
- OPENICF-1064: Google Apps Connector: /suspended eq true query doesn't work
- OPENICF-1063: Google Apps connector: Query is broken due to the use of WHITESPACE vs whitespace()
- OPENICF-1062: Google Apps Connector: Equals Filter
- OPENICF-998: Google Apps: Incorrect and missing Member attributes returned for Read or Query on Member object(s)
- OPENICF-441: Google Apps: Incomplete support for adding/removing User Aliases within the GoogleApps connector
- OPENICF-431: Google Apps: Expose the default maxResults parameter of the Users.list API as configurable option

1.4.4.0

Version 1.4.4.0 is bundled with Identity Cloud version 6.5.0 by default.

- OPENICF-876: RFE for OpenIDM: Latest Google Libraries

Chapter 7

Groovy Connector Toolkit

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

- **OPENICF-1523:** ScriptedGroovy connectors fail to load in IDM 7.x when embedded Groovy version does not match IDM Groovy version

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

- OPENICF-1414: Scripted Groovy (v3) based connectors fail to load with IDM releases prior to 7.0

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.7.0

Version 1.5.7.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1268: Groovy connector: Bump up to ICF 1.5.11.0
- OPENICF-1261: Groovy connector: fix javadoc
- OPENICF-1134: Groovy Connector: Enforcement of static import rules

1.5.2.0

No issues were addressed in this release.

1.5.1.0

Version 1.5.1.0 is bundled with Identity Cloud version 6.5.0 by default.

- OPENICF-955: Groovy connector: Remove Azure AD test sample

Chapter 8

HubSpot Connector

1.5.2.0

- OPENICF-1342: Hubspot connector fails to get token

1.5.0.0

- OPENICF-975: Revert to older version of apache geronimo in Hubspot connector
- OPENICF-925: Hubspot Connector: Create/Update fails
- OPENICF-923: Hubspot Connector - last page contain pagedResultsCookie if resultCount is same as pageSize
- OPENICF-916: Hubspot Connector - update on company throw error 500
- OPENICF-915: Hubspot Connector - Add NotCreatable, NotUpdatable flags to read-only objectClass Owner
- OPENICF-914: Hubspot Connector - create on contactProperties throw error 500
- OPENICF-913: Hubspot Connector - create on company throw error 500
- OPENICF-912: Hubspot Connector - pagedResultsCookie is always null when using paging

Chapter 9

Kerberos Connector

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.5.0

Version 1.5.5.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1280: Kerberos Connector: Bump up to ICF 1.5.11.0, Groovy 1.5.3.0 and SSH 1.5.2.0
- OPENICF-738: Kerberos Connector: Severe Error in the log when starting OpenIDM

1.5.1.0

Version 1.5.1.0 is bundled with Identity Cloud version 6.5.0 by default.

No issues were addressed in this release.

Chapter 10

Generic LDAP Connector

1.5.20.2

- [OPENICF-1666: LDAP Connector: ldapGroups should restrict membership to the specified contexts.](#)

1.5.20.0

- [OPENICF-1586: LDAP Connector: Timestamp sync strategy: Synchronization filters are not used properly](#)
- [OPENICF-1560: LDAP Connector: RFE Disable Paged Results Control](#)

See [1.5.20.0](#) in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See [1.5.19.6](#) in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See [1.5.19.5](#) in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See [1.5.19.4](#) in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See [1.5.19.3](#) in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

- OPENICF-1472: LDAP Connector: Data not synced from AD to IDM via livesync on `__ALL__` object
- OPENICF-1470: LDAP Connector: Null Check in `ADUserAccountControl.addControl`
- OPENICF-1466: LDAP Connector: Update `filterWithOrInsteadOfAnd` to apply to timestamp and Active Directory liveSync
- OPENICF-1448: LDAP Connector: Enabling changelog livesync for oracle unified directory (OUD)

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

- OPENICF-1388: LDAP Connector 1.5.5.0 throws `java.lang.NoSuchMethodError` on Java 8
- OPENICF-1396: OPENIDM-15448 changes seemingly broke querying ldap via the data tab

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.6.0

- OPENICF-1413: Use framework version 1.5.11.0 for ldap-connector to support Java8-compatible release

1.5.5.0

Version 1.5.5.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1053: LDAP Connector: `_action=test` on wrong certificate pattern should return error

- OPENICF-1162: LDAP Connector: empty array becomes absent if useTimestampsForSync is used
- OPENICF-1320: LDAP Connector: Description is not available for some properties
- OPENICF-1353: LDAP Connector: NPE if provisioner has attribute-mapping for objectGUID but system account does not have objectGUID
- OPENICF-1347: Expose lastChangeNumber info through SERVER_INFO object of LDAP connector

1.5.4.0

- OPENICF-1343: LDAP Connector: Unable to use VLV Index Search Strategy
- OPENICF-1312: LDAP Connector expects the range returned from AD to be 0-1499 for the member attribute

1.5.3.0

- OPENICF-1257: LDAP Connector: startTLS throws InvalidCredentialException with IDM on JDK11

1.5.2.0

- OPENICF-1278: LDAP Connector: Bump up to ICF 1.5.11.0

1.5.1.0

- OPENICF-1247: LDAP Connector: Do not overwrite AD userAccountControl when it has not changed from previous value
- OPENICF-1223: LDAP: AD/AD LDS query id with sortKeys called after query id with invalid cookie returns code 500

1.5.0.0

- OPENICF-1188: LDAP Connector: modifiersNamesToFilterOut does not check the creatorsName for an 'add'
- OPENICF-1175: LDAP Connector: sortKeys = _id is ignored
- OPENICF-1174: LDAP Connector: query-all-ids causes NPE
- OPENICF-1161: LDAP connector: inconsistency in escaping special chars when comparing new DN with existing entry DN (when updating entry), results in MODIFYDN
- OPENICF-1159: LDAP Connector: Upgrade to ICF 1.5
- OPENICF-1147: LDAP Connector: Query with _pagedResultsOffset higher than number of records in ldap is returning incorrect results

- OPENICF-1004: LDAP Connector: QueryFilter presence modifier against System LDAP endpoint is not applied within ldapSearch

1.4.11.0

- OPENICF-1117: AD UserAccountControl attributes not sync'd when using ALL ObjectClass
- OPENICF-1108: LDAP Connector: Change the connector license to CDDL
- OPENICF-1100: Bad grammar in error message on initial connection
- OPENICF-1055: LDAP Connector: In GroupHelper.java's getLdapGroups and getLdapGroupMemberships, explicitly ask for dn
- OPENICF-963: RFE: LDAP connector - enhance health check mechanism

1.4.10.0

- OPENICF-1067: LDAP Connector: Enhance connection exception messages
- OPENICF-1057: LDAP connector: error code 20 should be caught on update

1.4.9.0

- OPENICF-1035: LDAP Connector - DJ - ldapGroups are not returned if empty

1.4.8.0

Version 1.4.8.0 is bundled with Identity Cloud version 6.5.0 by default.

- OPENICF-958: LDAP - sortKeys by _id does not work with dj 6.5.0
- OPENICF-949: LDAP connector - AD with SSL _action=authenticate returns 500 Internal server error
- OPENICF-941: RFE for additional logging in LDAP connector getSearchStrategy()
- OPENICF-918: support for multiple Kerberos credentials for different LDAP connector instances
- OPENICF-883: LDAP connector: update should log attributes to modify
- OPENICF-878: LDAP SSL does not work any more
- OPENICF-868: Extend detection of CA LDAP server type
- OPENICF-866: Implement a connectionTimeout configuration for LDAP Connector
- OPENICF-688: AD LDS InvalidAttributeValueException is not getting reported
- OPENICF-666: LDAP Connector: Authenticate - ability to make distinction between invalid cred and expired password

- OPENICF-665: Check LDAP Server DNS Name against the SSL Certificate's subject/alternative name
- OPENICF-561: LDAP connector: get rid of legacy config parameters

Chapter 11

Marketo Connector

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.4.0

Version 1.5.4.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1273: Marketo connector: Bump up to ICF 1.5.11.0 and Groovy connector 1.5.3.0
- OPENICF-1132: Marketo Connector: Enforcement of static import rules

1.5.1.0

Version 1.5.1.0 is bundled with Identity Cloud version 6.5.0 by default.

No issues were addressed in this release.

Chapter 12

MongoDB Connector

1.5.20.0

- OPENICF-1553: MongoDB Connector: convertBSONtoICF() does not traverse Arrays.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.6.0

Version 1.5.6.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1308: MongoDB Connector: update dep to latest groovy connector and mongodb driver
- OPENICF-1282: MongoDB Connector: Bump up to ICF 1.5.11.0 and Groovy 1.5.3.0
- OPENICF-1281: MongoDB Connector: Fix the javadoc
- OPENICF-1199: MongoDB Connector: Change the connector license to CDDL
- OPENICF-1198: MongoDB Connector: update to latest mongo driver and embed deps
- OPENICF-1098: MongoDB Connector: Doesn't work with MongoDB 4.0 and above

1.5.1.0

Version 1.5.1.0 is bundled with Identity Cloud version 6.5.0 by default.

- OPENICF-924: Update on __ACCOUNT__ on mongodb usersRoles throws 500 Internal Server Error
- OPENICF-908: MongoDB: On Update op, do not insert the Uid in the default document
- OPENICF-870: Remove the 'database' name from the userName from the user

- OPENICF-865: MongoDB: usersRoles account pwd should be set as required
- OPENICF-863: MongoDB: usersRoles if role exist should throw AlreadyExistsException instead of Internal Server Error

Chapter 13

MS Graph API Connector

1.5.20.2

- OPENICF-1656: MS Graph API Connector: Unable to update onPremisesExtensionAttributes.
- OPENICF-1687: MS Graph API Connector: Should be able to work behind an HTTP Proxy.
- OPENICF-1698: MS Graph API Connector: get the cause of exception if test() fails.

1.5.20.0

- OPENICF-1538: MS Graph API Connector: Sync() does not work
- OPENICF-1541: MS Graph API Connector: Add ConsistencyLevel: eventual' header and \$count=true for endsWith filter
- OPENICF-1557: MS Graph API Connector: Handle user employeeHireDate attribute and Calendar data type
- OPENICF-1558: MS Graph API Connector: Make sure sortKey is supported by the objectClass
- OPENICF-1559: MS Graph API Connector: Implement Authenticate() call
- OPENICF-1595: MS Graph API Connector: test() should connect to the MS Graph endpoint to validate the connection

The following known issues will be addressed in a later release:

- OPENICF-1614: MS Graph API Connector: Livesync on user/group does not populate membership
- OPENICF-1615: MS Graph API Connector: Deleting Azure AD group works but throws HTTP 500

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

- OPENICF-1493: MS Graph API Connector: add the ability to read/assign license for the user
- OPENICF-1507: MS Graph API Connector: add the ability to read subscribedSku object
- OPENICF-1525: MS Graph API Connector: replace the default Graph SDK logger
- OPENICF-1526: MS Graph API Connector: add the ability to read Team objects
- OPENICF-1499: MS Graph API Connector: remove the maximumConnections property

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

- OPENICF-1475: MS Graph API Connector: the 'manager' only returns the id and not the full object
- OPENICF-1481: MS Graph API Connector: add the ability to assign/remove user's manager
- OPENICF-1483: MS Graph API Connector: can't remove all groups a user belongs to

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

- OPENICF-1469: MS Graph API Connector: implement a read/write rate limiter

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

- OPENICF-1446: MS Graph API Connector: implement PoolableConnector

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

Initial release of the MS Graph API Connector.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

Chapter 14

PowerShell Connector Toolkit

1.4.6.0

The PowerShell Connector Toolkit is available from the [early access download site](#).

- OPENICF-902: Powershell AD sample using paging always return pagedResultsCookie null
- OPENICF-890: AD Powershell: use the 'Host' config property with ADSI
- OPENICF-884: AD Powershell: implement paged searches

Chapter 15

Remote Connector Server

1.5.20.2

OPENICF-1655: Java RCS: When using TLS, the RCS does not work behind a proxy.

Chapter 16

RCS Agent

1.5.20.1

Version 1.5.20.1 of the RCS Agent addresses an issue with scopes being improperly handled when using OAuth for authentication with RCS.

1.5.20.0

Note

This is the first public release of the RCS Agent. The RCS Agent is a smart websocket proxy used to connect Identity Cloud and RCS. For more information about the RCS Agent, see "Configure RCS using the RCS Agent" in the *Connectors Guide*.

- OPENICF-1550: RCS Agent: improve tracking sync request/responses
- OPENICF-1552: RCS Agent files available for customers to create their own Docker image
- OPENICF-1563: RCS Agent: update Maven dependencies

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

Chapter 17

Salesforce Connector

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

- OPENICF-1522: Salesforce Connector : implement StatefulConfiguration to allow persistence of accessToken in memory

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

- OPENICF-1471: Salesforce Connector: should not implement PoolableConnector interface

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

- OPENICF-1352: Salesforce connector: pagination and cookies not working properly

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.7.0

Version 1.5.7.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1267: Salesforce Connector: Bump up to ICF 1.5.11.0
- OPENICF-1266: Update Salesforce Connector to use the latest Salesforce API by default

1.5.3.0

- OPENICF-1218: Change the connector license to CDDL

1.5.2.0

- OPENICF-1224: Salesforce connector does not support sync operation
- OPENICF-1217: Salesforce Connector: double / appears in queries
- OPENICF-1194: Typos in the Basic Configuration Properties of Salesforce Connector in Connector Reference

1.5.1.0

- OPENICF-1120: Update the Salesforce Connect to use the latest ICF Release
- OPENICF-1116: Add the ability to support proxy uri and proxy username and password
- OPENICF-1106: JSON Error responses from Salesforce REST API are not properly handled by the Salesforce Connector

- OPENICF-1056: Query filters that match against boolean values do not work
- OPENICF-1037: SF - Connector: NPE appears when incorrect `_pagedResultsCookie` is used.
- OPENICF-1028: SF Connector: NPE when performing a PUT with null valued attribute
- OPENICF-1024: SF Connector: Unable to query via QueryFilter whose attribute value contains a single quote
- OPENICF-1023: SF Connector: Paged query fails when `_pagedResultsCookie > 2000`
- OPENICF-1022: SF Connector: Non-paged query can not return >2k results from Salesforce

1.5.0.0

Version 1.5.0.0 is bundled with Identity Cloud version 6.5.0 by default.

- OPENICF-989: Salesforce - patch REMOVE throws 500 Error - NullPointerException
- OPENICF-985: Salesforce Connector - invalid result for `getNewAccessToken` throws `JSONException`
- OPENICF-983: Update `Messages.properties` to remove manual default property values
- OPENICF-911: Port over existing `openidm-salesforce` module as an ICF connector
- OPENICF-859: Rewrite the current Salesforce connector as ICF connector

Chapter 18

SAP Connector

1.5.0.0

The SAP Connector is available from the [early access download site](#).

No issues were addressed in this release.

Chapter 19

SCIM Connector

1.5.20.0

- OPENICF-1589: SCIM Connector: NPE caused by exception not properly handled
- OPENICF-1591: SCIM Connector: Parsing OAuth response should not fail on unknown properties
- OPENICF-1598: SCIM Connector: NPE when updating attribute with null value
- OPENICF-1600: SCIM Connector: unknown attributes in a query result should not throw parsing exception
- OPENICF-1601: SCIM Connector: Implement a global connection timeout property

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

- OPENICF-1518: SCIM connector: Http client ConnectionManager is not set properly

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

- OPENICF-1401: SCIM Connector: Align exceptions for not configured (blank/null) configurationProperties

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

- OPENICF-1444: SCIM connector - provide support for 'scope'

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.8.0

Version 1.5.8.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1360: SCIM connector throws NPE if OAUTH grantType not configured.
- OPENICF-1344: SCIM Connector: properties mapped to __NAME__ do not work in queries
- OPENICF-1340: SCIM Connector: Make sure ICF NAME attribute is substituted in queries
- OPENICF-1335: SCIM Connector: Query filter value is not properly encoded
- OPENICF-1333: SCIM Connector: Unable to use authenticationMethod of TOKEN
- OPENICF-1309: SCIM Connector: Bad Authorization header with client_credentials OAuth grant type

- OPENICF-1307: SCIM Connector: bad default http headers
- OPENICF-1295: SCIM connector: Handle the HTTP 429 code (Too many requests)
- OPENICF-1292: SCIM connector: GET should not throw an exception when entry not found
- OPENICF-1272: SCIM connector: Bump up to ICF 1.5.11.0
- OPENICF-1262: SCIM connector: fix javadoc
- OPENICF-1243: SCIM Connector: Implement OAUTH refresh_token grant type

1.5.2.0

- OPENICF-1249: SCIM connector: PATCH operation mishandles enterprise extension urn
- OPENICF-1149: SCIM connector: ObjectClass.ACCOUNT is hardcoded in the search
- OPENICF-1144: SCIM connector: Implement SyncOp interface

1.5.1.0

- OPENICF-1097: SCIM connector: mishandles schemas

1.5.0.0

- OPENICF-1084: SCIM Connector: Change the connector license to CDDL
- OPENICF-1071: SCIM connector: ability to configurate http proxy user and password

1.4.3.0

Version 1.4.3.0 is bundled with Identity Cloud version 6.5.0 by default.

No issues were addressed in this release.

Chapter 20

Scripted CREST Connector

Important

The Scripted CREST Connector has been deprecated and removed from the list of bundled connectors, starting in version 7.0 of Identity Cloud. Please migrate any existing Scripted CREST Connector implementations to the Scripted REST Connector instead.

1.5.2.0

No issues were addressed in this release.

1.5.1.0

Version 1.5.1.0 is bundled with Identity Cloud version 6.5.0 by default.

No issues were addressed in this release.

Chapter 21

Scripted REST Connector

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.6.0

Version 1.5.6.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1380: ScriptedREST Connector: ScriptedRESTUtils ICFJsonBuilder does not handle null values
- OPENICF-1275: ScriptedREST connector: Bump up to ICF 1.5.11.0
- OPENICF-1265: ScriptedREST connector: fix closure params in unit tests
- OPENICF-1263: ScriptedREST connector: fix javadoc
- OPENICF-1213: ScriptedREST connector: Clean up deps
- OPENICF-1133: ScriptedREST Connector: Enforcement of static import rules

1.5.2.0

- OPENICF-1114: ScriptedREST Connector: Change the connector license to CDDL
- OPENICF-754: Scripted REST: Implement Oauth2 authentication

1.5.1.0

Version 1.5.1.0 is bundled with Identity Cloud version 6.5.0 by default.

No issues were addressed in this release.

Chapter 22

Scripted SQL Connector

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.5.0

Version 1.5.5.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1287: ScriptedSQL Connector: bump up to ICF 1.5.11.0 and Groovy 1.5.3.0
- OPENICF-1264: ScriptedSQL connector: fix javadoc
- OPENICF-1222: ScriptedSQL - Update Reset/CreateDB sample
- OPENICF-1221: ScriptedSQL - Replace table name Group in sample script with word thats not keyword
- OPENICF-1163: ScriptedSQL Connector: Change the connector license to CDDL
- OPENICF-1135: ScriptedSQL Connector: Enforcement of static import rules

1.5.1.0

Version 1.5.1.0 is bundled with Identity Cloud version 6.5.0 by default.

No issues were addressed in this release.

Chapter 23

ServiceNow Connector

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

No issues specific to this connector were addressed in this release.

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.5.0

Version 1.5.5.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1269: ServiceNow connector: Bump up to ICF 1.5.11.0
- OPENICF-1246: ServiceNow Connector: Update deps and embed the json lib
- OPENICF-1245: ServiceNow Connector: Change connector license to CDDL
- OPENICF-1109: ServiceNow: Fix URL parameters for the latest version
- OPENICF-1073: ServiceNow Connector: Make more stable servicenow suite due to hibernation instance
- OPENICF-967: ServiceNow: 'pagedResultsCookie' doesn't change when 'pagedResultsOffset' used in paging query request
- OPENICF-966: ServiceNow: Sorting doesn't work at queries request
- OPENICF-960: Service Now: Add query accept before the connectorObjects are handled
- OPENICF-957: ServiceNow: greater or equal operator 'ge' in queryFilter doesn't work correctly
- OPENICF-956: ServiceNow: greater operator 'gt' in queryFilter doesn't work correctly
- OPENICF-953: ServiceNow: negation operator '!' in queryFilter doesn't work

1.5.0.0

Version 1.5.0.0 is bundled with Identity Cloud versions 6.0 and 6.5.0 by default.

- OPENICF-848: ServiceNow: user_password is not encrypted and it's shown in plaintext
- OPENICF-847: ServiceNow: Getting a non existing user return code 500
- OPENICF-843: ServiceNow: We are able to create role without 'name'
- OPENICF-842: ServiceNow: Generated schema has two editable properties are mapped to one attribute
- OPENICF-832: ServiceNow: Deleting a non existing user return code 500

Chapter 24

SSH Connector

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

No issues specific to this connector were addressed in this release.

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

- OPENICF-1445: SSH connector: Stale or disconnected SSH sessions are not detected when borrowing from the pool

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.6.0

Version 1.5.6.0 is bundled with the Identity Cloud 7.0.0 release.

- OPENICF-1277: SSH connector: Bump up to ICF 1.5.11.0 and Groovy 1.5.3.0

1.5.1.0

Version 1.5.1.0 is bundled with Identity Cloud version 6.5.0 by default.

No issues were addressed in this release.

Chapter 25

Workday Connector

1.5.20.2

- OPENICF-1689: Workday Connector: Workers transaction logs are filtered.
- OPENICF-1691: Workday Connector: Reduce Garbage collection when building connector objects.

1.5.20.0

No issues specific to this connector were addressed in this release.

See 1.5.20.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.20.0 of the connector.

1.5.19.6

No issues specific to this connector were addressed in this release.

See 1.5.19.6 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.6 of the connector.

1.5.19.5

- OPENICF-1504: Workday Connector: SyncToken should be updated even if no events
- OPENICF-1506: Workday Connector: SyncToken should be set to tenant timestamp after call to sync()
- OPENICF-1508: Workday Connector: Query on SCR objects should not include date range as a search criteria

See 1.5.19.5 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.5 of the connector.

1.5.19.4

No issues specific to this connector were addressed in this release.

See 1.5.19.4 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.4 of the connector.

1.5.19.3

No issues specific to this connector were addressed in this release.

See 1.5.19.3 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.3 of the connector.

1.5.19.2

No issues specific to this connector were addressed in this release.

See 1.5.19.2 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.2 of the connector.

1.5.19.1

- OPENICF-1383: Workday Connector: Upgrade to API v35.0
- OPENICF-1419: Workday Connector: Implement Service Center Representative object type
- OPENICF-1426: Workday Connector: Ability to update email for Service Center Representative object
- OPENICF-1432: Workday Connector: Implement OR filter
- OPENICF-1447: Workday Connector: add the Contingent_Worker_ID as a search criteria

See 1.5.19.1 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.1 of the connector.

1.5.19.0

No issues specific to this connector were addressed in this release.

See 1.5.19.0 in the Connector Framework release notes for details regarding any other changes that may affect version 1.5.19.0 of the connector.

1.5.18.0

Note

Starting in version 1.5.18.0, the ICF Connector Framework and all connectors bundled with Identity Cloud share a unified version number.

- No issues were addressed in this release.

1.5.3.0

- OPENICF-1291: Unnecessary logback dependency within Workday connector
- OPENICF-1283: Workday Connector: Bump up to ICF 1.5.11.0 and fix javadoc

1.5.1.0

- OPENICF-1193: Workday Connector: call to Sync() throws NPE when there are no changes detected
- OPENICF-1107: Workday Connector: Several problems with sync()
- OPENICF-1103: Workday Connector: Get Worker does a wrong query on update operation
- OPENICF-1102: Workday Connector: Include Related Persons information

1.5.0.0

- OPENICF-1096: Workday Connector: Update to ICF 1.5
- OPENICF-1095: Workday Connector: Change the connector license to CDDL
- OPENICF-858: Workday: ability to update any reference ID using Integrations web services
- OPENICF-857: Workday: fetch all the available employee information
- OPENICF-756: Workday: ability to read/query the Organizations

1.4.1.0

- OPENICF-1166: Workday Connector: Absence of Telephone data causes NPE
- OPENICF-1104: Workday Connector: handle worker picture data

1.4.0.0

Version 1.4.0.0 is bundled with Identity Cloud versions 6.0 and 6.5.0 by default.

- OPENICF-853: Workday - mobile is not updated if telephone is set
- OPENICF-845: Workday: Make page size configurable
- OPENICF-757: Workday: Implement paged queries
- OPENICF-751: Review Workday Connector