

IBM Content Collector  
4.0.1.10 Interim Fix 13

*Readme*

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# IBM Content Collector 4.0.1.10 Interim Fix 13

Readme documentation for IBM® Content Collector 4.0.1.10 Interim Fix 13 including installation-related instructions, prerequisites and corequisites, and information about fixes, changes, and limitations for IBM Content Collector for Email, IBM Content Collector for File Systems and IBM Content Collector for Microsoft SharePoint.

**Readme file for:**

IBM Content Collector

**Product / Component release:**

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Interim Fix 013

**Fix ID:**

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## Download location

The following deliverables are available for download:

Product / Component name	Platform	File name
<a href="#">IBM Content Collector 4.0.1.10 IF013 Readme</a>	Not Applicable	4.0.1.10-IBM-ICC-IF013.pdf
<a href="#">IBM Content Collector 4.0.1.10 IF013 Server</a>	Windows	4.0.1.10-IBM-ICC-WIN-IF013.zip

## Prerequisites and corequisites

The IBM Content Collector (ICC) 4.0.1.10 Interim Fix 7 server package is required.

This interim fix is partially or completely independent of following interim fixes and can be deployed on top of it.

Content Collector Version	Components	Release Content
<a href="#">ICC 4.0.1.10 Interim Fix 1</a>	Outlook Extension	<b>APAR fix</b> <u>HE12884</u> : IBM Content Collector Outlook Extension (32-bit and 64-bit)
<a href="#">ICC 4.0.1.10 Interim Fix 2</a>	Server	<b>Java PSIRT fixes</b> CVE-2018-1890, CVE-2018-12547, CVE-2018-12549, CVE-2019-2422, CVE-2019-2426, CVE-2019-2602, CVE-2019-2684, CVE-2019-2697, CVE-2019-2698, CVE-2019-10245 <u>Solution</u> : Upgrade Java to 8.0.5.35.
<a href="#">ICC 4.0.1.10 Interim Fix 3</a>	Server (P8 Config, Expiration Manager Tool)	<b>APAR fix</b> <u>HE12880</u> : ICC Expiration manager tool command quits the processing returning SQL syntax error. When running the Expiration Manager Tool command to delete all the emails archived in FileNet, a SQL Syntax Error is returned. This fix resolves the error by modifying the SQL query to be compatible with FileNet Content Engine Server.  <b>Defect</b> <u>Internal defect 69240</u> : The defect was reported on ICC 4.0.1 FP10 P8 CPE 5.5.3. The initial configuration fails when retrieving the objectstores. During initial configuration ICC is using VerityIndexAreaImpl and CBRSearchType.VERITY references which is deprecated in CPE 5.5.2. This fix removes the references of deprecated VERITY APIs and properties as CPE has stopped VERITY support for some time now. With this fix, VERITY will not be supported with ICC as VERITY users will have to use older versions of ICC.
<a href="#">ICC 4.0.1.10 Interim Fix 4</a>	Server (Web Application Liberty, IBM Content Collector P8 Connector), SharePoint Extension, OWA Extension	<b>New features</b> <ul style="list-style-type: none"> <li>• Support of Microsoft Exchange OWA 2019</li> <li>• Support of Microsoft SharePoint Server 2019</li> <li>• Support for Business Automation Content Services on Cloud (BACSOC)</li> </ul> <b>APAR fix</b> <u>HE12928</u> : Archival to FileNet P8 5.5.2 fails when ICC tries to query distinguished name property for current CPE server user.
<a href="#">ICC 4.0.1.10 Interim Fix 5</a>	Server (Web Application Liberty)	<b>New features</b> <ul style="list-style-type: none"> <li>• <u>Liberty Phase 2 (External Liberty Server and API Support)</u>: Support for ICC Web Application deployment on External Web Application Server</li> <li>• Support for ICC Web Application services application programming interfaces (APIs)</li> <li>• Admin Center Control for IBM WebSphere Liberty Application Server</li> <li>• <u>Support for Doc Viewer</u>: ICC plugin Doc Viewer can be used to view documents in IBM Content Navigator.</li> </ul>

Content Collector Version	Components	Release Content
		<p><b>APAR fix</b>  <a href="#">HE12935</a>: ICC CM and FileNet repository configuration tool fails to load.</p> <p><b>Defect</b>  <a href="#">Internal defect 69271</a>: ICC plugin Doc Viewer can be used to view documents in IBM Content Navigator.</p>
<a href="#">ICC 4.0.1.10 Interim Fix 6</a>	Server	<p><b>Java PSIRT fixes</b>            CVE-2019-2762, CVE-2019-2766, CVE-2019-2769, CVE-2019-2786, CVE-2019-2816, CVE-2019-4473, CVE-2019-11771, CVE-2019-11772, CVE-2019-11775  <b>Solution</b>: Upgrade Java to 8.0.5.40.</p>
<a href="#">ICC 4.0.1.10 Interim Fix 7</a>	Server (Web Application Liberty, Configuration Manager)	<p><b>New features</b></p> <ul style="list-style-type: none"> <li>Upgraded WebSphere Liberty Profile (WLP) to 19.0.0.5.</li> <li>Migrated External WebSphere Application Server (eWAS) certificate stores to Liberty certificate stores.</li> </ul> <p><b>Defects</b>  <a href="#">Internal defect 68765</a>: Reconfiguration flow issue.</p> <p><a href="#">Internal defect 69414</a>: Search does not display previously archived mails from a Migrated mailbox when the ExchangeOnlineMigratedUsers.csv file has double quotes (“ ”).</p> <p><a href="#">Internal defect 69427</a>: Web application on Secondary node does not work as expected in a Cluster environment.</p>
<a href="#">ICC 4.0.1.10 Interim Fix 8</a>	Server (Web Application Liberty)	<p><b>Liberty PSIRT fix</b>            CVE-2019-4441  <b>Solution</b>: Upgrade WebSphere Liberty Profile (WLP) to 19.0.0.11.</p>
<a href="#">ICC 4.0.1.10 Interim Fix 9</a>	Server	<p><b>Java PSIRT fixes</b>            CVE-2019-2962, CVE-2019-2964, CVE-2019-2989, CVE-2019-2992, CVE-2019-2999  <b>Solution</b>: Upgrade Java to 8.0.6.0.</p>
<a href="#">ICC 4.0.1.10 Interim Fix 10</a>	Server	<p><b>Java PSIRT fixes</b>            CVE-2019-4732, CVE-2020-2654, CVE-2020-2593  <b>Solution</b>: Upgrade Java to 8.0.6.7.</p> <p><b>Note</b>: ICC 4.0.1.10 IF 10 replaces 4.0.1.10 IF 2, IF 6 and IF 9.</p>
<a href="#">ICC 4.0.1.10 Interim Fix 11</a>	Server (TaskRoute, Cluster Management, Configuration Store services, Configuration Manager, File Systems Connector, Email Connector, Web Application)	<p><b>APAR fixes</b>  <a href="#">HE12952</a>: ICC for EFS - When a security policy only allows fully qualified server names, ICC becomes non-functional in scale out mode.</p> <p><a href="#">HE12973</a>: ICC 2.2 catalog copied to ICC 4.0.1.10 gives the following error: System.Xml.XmlException Root element missing.</p> <p><a href="#">HE12976</a>: When using the <i>Always</i> schedule with cluster setup, errors are seen during post-processing, because a file may have been collected twice for processing.</p>

Content Collector Version	Components	Release Content
	Liberty)	<p><u>HE12991</u>: Unable to establish a successful Connection to Active Directory with UnsupportedOperationException in MAPI logs.</p> <p><u>HE12993</u>: ICC for Email - Unable to search on custom attribute for folder in CM8 repository.</p>
<a href="#">ICC 4.0.1.10 Interim Fix 12</a>	Server	<p><b>Java PSIRT fixes</b>            CVE-2020-2805, CVE-2020-2803, CVE-2020-2781, CVE-2020-2800, CVE-2020-2757, CVE-2020-2756, CVE-2019-2949  <u>Solution</u>: Upgrade Java to 8.0.6.10.</p> <p><b>Liberty PSIRT fixes</b>            CVE-2019-4720, CVE-2020-4329  <u>Solution</u>: Upgrade WebSphere Application Liberty to 20.0.0.6.</p> <p><b>Note</b>: ICC 4.0.1.10 IF 12 replaces 4.0.1.10 IF 2, IF 6, IF 8, IF9 and IF 10.</p>

For information about hardware and software compatibility, see the detailed system requirements document at: [Prerequisites for IBM Content Collector 4.0.1](#)

## Known issues

Content Collector for Exchange Online as Source currently has an issue with archiving if the initially created Messaging Application Programming Interface (MAPI) profile is deleted, in the following environment:

**Operating System:** Microsoft Windows 2019

**ICC prerequisite application:** Microsoft Office 2019

This behavior is observed across all the previous versions of Content Collector.

Workaround:

- Avoid deleting the initially created MAPI profile on the Windows 2019 server.
- Alternatively, use Windows 2016 operating system for Content Collector installation.

## Installation information

It is recommended to install IBM Content Collector 4.0.1.10 Interim Fix 7 or later version before installing this fix.

### Installing this fix

**Note:** When following the instructions, replace <ICC Installation Directory> with the name of your Content Collector installation directory. If the installation directory path contains space, you must use Windows short names while navigating.

For example: `c:\progra~2\IBM\ContentCollector`

You can find the short name for the directory by running “dir /x” command.



7. Replace the **afu\_web.jar** file in the following directory:  
 <ICC Installation Directory>\AFUWeb\wlp\usr\servers\AFUWeb\apps\expanded\afu\_web.ear\afu\_web.war\WEB-INF\lib\

With the one extracted in **section 1 above**, 1.1 and step 1.

8. Place all the files from the **Libraries** folder extracted in **section 1 above**, 1.1 and step 1, in the following directory:  
 <ICC Installation Directory>\ctms
9. Start the service stopped in step 1 of this process.
10. Start the service stopped in step 2 of this process.
11. Make sure that the **isAlive** page is up and configuration gets validated successfully.

## 2.2 Reinstalling Web Application

1. Open the Command Prompt in Administrator mode.
2. Run the **afu\_ewas\_uninstall.bat** file from the following location:  
 <ICC Installation Directory>\AFUWeb

And, ensure that the following log file indicates the uninstallation is successful:

<ICC Installation Directory>\AFUWeb\afu\_ewas\_uninstall.txt

3. Open the Windows Services app to ensure that the 'IBM Content Collector Web Application Liberty' service is not present. If the service is shown but is in disabled state, reboot the system and recheck to completely remove the service.
4. Stop the **IBM Content Collector Documentation Liberty** service.
5. Ensure that the AFUWeb directory is deleted from the following location:  
 <ICC Installation Directory>\AFUWeb\wlp\usr\servers\
6. Delete the **.classCache** and **.logs** folders.
7. Take a backup of the following folder by renaming it:  
 <ICC Installation Directory>\AFUWeb\_cert\_backup
8. Run the **afu\_ewas\_install.bat** file from the following location:  
 <ICC Installation Directory>\AFUWeb
9. Reconfigure Web Service once the installation is successful.

## Section 3: Uninstalling this fix

### 3.1 Uninstalling

1. Stop the IBM Content Collector Web Application Liberty service.
2. Stop the IBM Content Collector Task Routing Engine service.
3. Follow the steps in **section 3.2 below** to deregister the Azure AD app.
4. Replace the following files with the ones backed up in **section 2 above**, 2.1 and step 4.
  - a) afu-mailinterface-mapi.jar in <ICC Installation Directory>\ctms\
  - b) ews.properties in <ICC Installation Directory>\ctms\
  - c) afu\_services.ear in <ICC Installation Directory>\AFUWeb\
5. Follow the steps in **section 2.2 above**, to reinstall Web Application and reconfigure Web Service.



6. Replace the following:  
<ICC Installation Directory>\AFUWeb\wlp\usr\servers\AFUWeb\apps\expanded\afu\_web.ear\afu\_web.war\WEB-INF\lib\afu\_web.jar

With the one backed up in **section 2 above**, 2.1 and step 4.

7. Remove all the libraries added to the following directory in **section 2.1.8**:  
<ICC Installation Directory>\ctms
8. Start the service stopped in step 2 of this process.
9. Start the service stopped in step 1 of this process.
10. Make sure that the **isAlive** page is up and configuration gets validated successfully.

### 3.2 Deregistering Microsoft Azure AD OAuth App (ICCAApp)

1. Copy the **cleanup.ps1** file from the **Scripts** folder extracted in **section 1 above**, 1.1 and step 1 to the following directory:  
<ICC Installation Directory>\tools\ExchangeOnlineAzureAdApp
2. Open **PowerShell** with Administrator privileges.
3. Run the **cleanup.ps1** script to deregister the Azure AD application.
4. Sign in when prompted.

The Azure AD application will be deleted from the tenant (if it exists) and the corresponding properties will also be deleted from the **ews.properties** file.

## Fixes and changes

This interim fix addresses the following:

### New feature

#### ICC Support for OAuth (Exchange Online)

Prior to this fix, a basic authentication was used to connect to the Microsoft Exchange Online. As Microsoft has announced the end of support for basic authentication with Exchange Online to improve security, IBM Content Collector now supports OAuth for connecting to Microsoft Exchange Online.

### Security vulnerability

#### DoS vulnerability fix

In computing, a denial-of-service attack (DoS attack) is a cyber-attack in which the perpetrator seeks to make a machine or network resource unavailable to its intended users by temporarily or indefinitely disrupting services of a host connected to the Internet.

63727: DoS vulnerability: IBM Content Collector has handled this for web APIs.

## Documentation

- [IBM Content Collector OAuth Support for Microsoft Exchange Online](#) (New)
- [IBM Content Collector for Microsoft Exchange Online](#) (Updated)
- [Download IBM Content Collector 4.0.1.10 Interim Fix 13](#) (Readme document)
- [Download IBM Collector 4.0.1.10 Interim Fix 13 from Fix Central](#) (Fix files)
- [IBM Content Collector 4.0.1 Knowledge Center](#)

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## Document change history

Date	Description of change
13 August 2020	Original version published