

IBM Content Collector
4.0.1.15 Interim Fix 1

Readme

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IBM Content Collector 4.0.1.15 Interim Fix 1

Readme documentation for IBM® Content Collector 4.0.1.15 interim fix 1 including installation-related instructions, prerequisites and co-requisites, 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:

Version 4.0.1.15

Update Name:

Interim Fix 001

Fix ID:

4.0.1.15-IBM-ICC-IF001

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Download location

The following deliverables are available for download from the IBM Fix Central:

Download Collector 4.0.1.15 interim fix 1 fix files

<https://www.ibm.com/support/fixcentral/swg/selectFixes?parent=Enterprise%2BContent%2BManagement&product=ibm/Information+Management/Content+Collector&release=4.0.1.15&platform=ALL&function=fixId&fixids=4.0.1.15-IBM-ICC-IF001&includeRequisites=1&includeSuperse>

It includes steps to install the IBM Runtime Environment Java to 8.0.7.10 and Ant to 1.10.12, which are used by Content Collector.

Note: This interim fix is not applicable for Solaris platform because IBM Java 8 32-bit JRE is not available for Solaris.

Product / Component name	Platform	File name
IBM Content Collector 4.0.1.15 interim fix 1 readme https://www.ibm.com/support/pages/node/6823863	Not applicable	4.0.1.15-IBM-ICC-IF001.pdf
IBM Content Collector Server https://www.ibm.com/support/fixcentral	Windows	4.0.1.15-IBM-ICC-WIN-IF001.zip
Content Collector 4.0.1.15 interim fix 1 CM8 Text Search Support	AIX	4.0.1.15-IBM-ICC-AIX-IF001.gz
	Linux	4.0.1.15-IBM-ICC-Linux32-IF001.tgz
	Linux for zSeries	4.0.1.15-IBM-ICC-Linuxz-IF001.tgz

Prerequisites and corequisites

The Content Collector 4.0.1 fix pack 15 (4.0.1.15) server package is required.

For information about hardware and software compatibility, see the detailed system requirements document at:

- **Latest updates:** IBM Software Product Compatibility Reports
<https://www.ibm.com/software/reports/compatibility/clarity/index.html>
- **Additional information:**
 - Prerequisites for IBM Content Collector 4.0 - <https://www.ibm.com/support/pages/node/612697>
 - Prerequisites for IBM Content Collector 4.0.1 - <https://www.ibm.com/support/pages/node/614445>

Known issues

No known issues.

Installation information

You can apply this fix directly on Content Collector 4.0.1 fix pack 15 (4.0.1.15).

Notes:

- 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:

Directory path with spaces: `C:\Program Files (x86)\IBM\ContentCollector` should be written as

Desired path: `c:\progra~2\IBM\ContentCollector`.

You can find the short name for a directory by running this command: `dir /x`.

A. Installing IBM Runtime Environment Java Technology Edition

The following sections provide information on how to install IBM Java.

Prerequisite

1. Download and extract the fix files for your operating system from the IBM Fix Central to a temporary directory:
<https://www.ibm.com/support/fixcentral/swg/selectFixes?parent=Enterprise%2BContent%2BManagement&product=ibm/Information+Management/Content+Collector&release=4.0.1.15&platform=ALL&function=fixId&fixids=4.0.1.15-IBM-ICC-IF001&includeRequisites=1&includeSuperse>
For example, for Windows operating system, you need to extract from following compressed folder:
4.0.1.15-IBM-ICC-WIN-IF001.zip
2. The Java fixes are available in the folder named **java**.

Installing

1. **Close** the Content Collector Configuration Manager and stop the following services:
 - a. All the services on IBM Content Collector Server
 - b. **For CM8 Text Search Support 4.0.1.9 to 4.0.1.12:**
DB2EXT Service on CM8 Server

Note: CM8 Text Search Support 4.0.1.8 and earlier use Java 6, and this Content Collector interim fix is applicable only for Java 8.

2. Take a backup of the respective Java directory present within the Content Collector product directory.
If you used the default location for installation, the paths are as follows:

Component	Platform	Default location
Server	Windows	<ICC_installation_directory>/java
CM8 Text Search Support	Windows	C:/Program Files (x86)/IBM/ICCIndexer/java
CM8 Text Search Support	Unix	/opt/IBM/ICCIndexer/java

3. Replace the contents of the Java directory in your installation folder (from Step 2) with the fix file for your operating system.
4. If you are using a Domino source, perform the following step:
Copy the **icu4j-58_2.jar** and **icu4j-charset-58_2.jar** files from:
<ICC_installation_directory>\AFUWeb\wlp\usr\servers\AFUWeb\apps\expanded\afu_web.ear\afu_web.war
\WEB-INF\lib
Paste in: <ICC_installation_directory>\java\jre\lib\ext
5. Start the services you stopped in Step 1.

B. Windows only: Upgrading Ant

The following sections provide information on how to upgrade Struts.

Prerequisite

1. Download and extract the fix files for your operating system from the IBM Fix Central to a temporary directory:

<https://www.ibm.com/support/fixcentral/swg/selectFixes?parent=Enterprise%2BContent%2BManagement&product=ibm/Information+Management/Content+Collector&release=4.0.1.15&platform=ALL&function=fixId&fixids=4.0.1.15-IBM-ICC-IF001&includeRequisites=1&includeSuperse>

2. The Ant fixes are available in the folder named **ant**.

Note: Installing afu_ewas/afu_help can be skipped:

Ant is only used during the execution of web application scripts to perform operations such as installation, uninstallation, deployment, un-deployment of web applications. Ant is not used during the runtime execution of Web Application or any ICC Components. Therefore, applying the updated Ant version is sufficient to mitigate the security vulnerability. After this, if the requirement to execute any web application scripts arise, the updated Ant version will be used.

Installing

1. Take a backup of the following directory
AFUWeb\ant
2. **(Optional)** Run the following scripts from the administrator command prompt to uninstall the mentioned applications:
 - a. Web application: Run afu_ewas_uninstall.bat
 - b. Help application: Run afu_help_uninstall.bat
3. Delete the following directories:
AFUWeb\ant
4. Copy the extracted **ant** folder from **Prerequisite** section step B.1 to <ICC Installation Directory>\AFUWeb directory
5. **(Optional)** Run the following scripts from the administrator command prompt to install the mentioned applications:
 - a. Web application: Run afu_ewas_install.bat
 - b. Help application: Run afu_help_install.bat
6. Verification of Ant version
 - a. Navigate to folder <ICC Installation Directory>\AFUWeb\ant\bin
 - b. Run the command “Ant -version” command prompt
 - c. It should show below Ant updated version
“Apache Ant(TM) version 1.10.12 compiled on October 13 2021”

Uninstalling this fix

The following sections provide information on how to uninstall IBM Java and rollback Ant.

A. Uninstalling IBM Runtime Environment Java Technology Edition

1. Close the Content Collector Configuration Manager and stop the following services:
 - a. All the services on IBM Content Collector Server
 - b. **For CM8 Text Search Support 4.0.1.9 to 4.0.1.12:**
DB2EXT Service on CM8 Server
2. Navigate to the Java directory and replace the files with the backup taken in Step 2 of [installation](#).
3. Start the services you stopped in Step 1.

B. Uninstalling Ant

1. Run the following scripts from the administrator command prompt to uninstall the mentioned applications:
 - a. Web application: Run afu_ewas_uninstall.bat
 - b. Help application: Run afu_help_uninstall.bat
2. Delete the following directories:
AFUWeb\ant
3. Copy the extracted **ant** folder from **Installing** section step B.2 to <ICC Installation Directory>\AFUWeb directory
4. Run the following scripts from the administrator command prompt to install the mentioned applications:
 - a. Web application: Run afu_ewas_install.bat
 - b. Help application: Run afu_help_install.bat

Fixes and changes

This interim fix addresses the following security vulnerabilities in the IBM Runtime Environment Java Technology 8 used by Content Collector.

Security vulnerabilities

A. IBM Runtime Environment Java Technology Edition

1. Successful attacks of this vulnerability can result in unauthorized update, insert or delete access to some of Oracle Java SE, Oracle GraalVM Enterprise Edition accessible data.
CVE-2022-21496 - <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2022-21496>
CVE-2022-21434 - <https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=CVE-2022-21434>
2. Successful attacks of this vulnerability can result in unauthorized ability to cause a partial denial of service (partial DOS) of Oracle Java SE, Oracle GraalVM Enterprise Edition.
CVE-2022-21443 - <https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=CVE-2022-21443>

3. Successful attacks of this vulnerability can result in unauthorized ability to cause a partial denial of service (partial DOS) of Oracle Java SE, Oracle GraalVM Enterprise Edition.

CVE-2022-21299 - <https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=CVE-2022-21299>

CVE-2021-35561 - <https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=CVE-2021-35561>

B. ANT

1. Successful attacks of this vulnerability can result when reading a specially crafted TAR archive an Apache Ant build can be made to allocate large amounts of memory that finally leads to an out of memory error, even for small inputs.

CVE-2021-36373 - <https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=CVE-2021-36373>

2. Successful attacks of this vulnerability can result when reading a specially crafted ZIP archive, or a derived format, an Apache Ant build can be made to allocate large amounts of memory that lead to an out of memory error, even for small inputs.

CVE-2021-36374 - <https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=CVE-2021-36374>

Fixed defects

No defects

Documentation

- Download IBM Content Collector 4.0.1.15 interim fix 1 (Readme file)
<https://www.ibm.com/support/pages/node/6823863>
Note: For the latest version of the Readme file, use this link.
- IBM Content Collector Downloads
<https://www.ibm.com/support/pages/node/613127>
- IBM Software Product Compatibility Reports
<https://www.ibm.com/software/reports/compatibility/clarity/index.html>
- IBM Content Collector 4.0.1 documentation
<https://www.ibm.com/docs/en/content-collector/4.0.1>

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Document change history

Date	Description of change
29 September 2022	Original version published