

# Changes or new features - 8.3.19

- **Mainframe Analyzer**
  - IMS/DC - support introduced
- **JCL - Support for INZUTILB and DSNTIAUL**
- **User Input Security**
  - AIPCORE-1373 - support for Ektor Java API for CouchDB
  - AIPCORE-1371 - support for LightCouch for Java
  - AIPCORE-1348 - improved coverage of logger methods
  - AIPCORE-1301 - improved logs
  - AIPCORE-1238 - improved handling of duplicate paths
  - AIPCORE-1226 - support for NoSQL - Azure Cosmos DB (.NET)
  - AIPCORE-1225 - support for NoSQL - Azure Cosmos DB (Java)
  - AIPCORE-1142 - improved detection of targets of the method `java.io.Console.format`

 **Summary:** CAST AIP 8.3.19 introduces a number of features and changes as listed below.

## Mainframe Analyzer

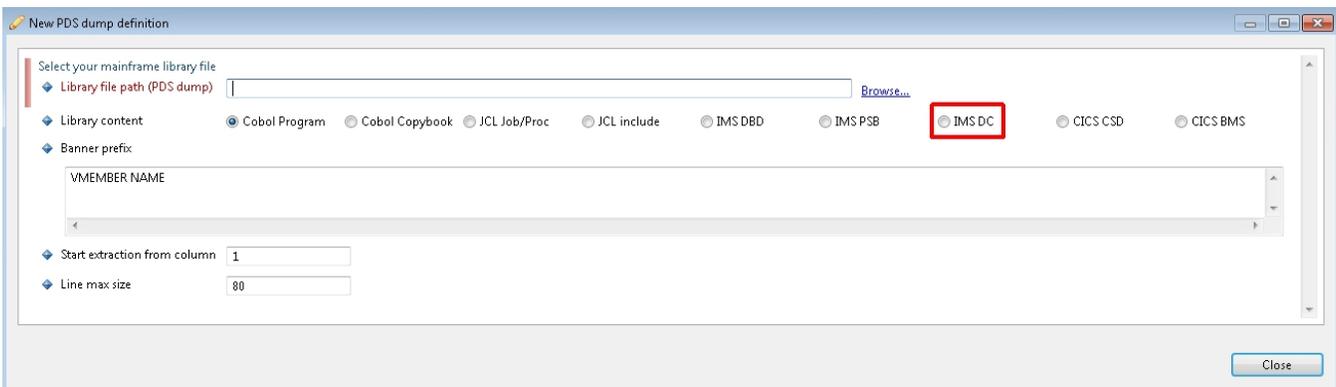
### IMS/DC - support introduced

Support for **IMS/DC** (Data Communications) has been introduced. See [Mainframe - IMS DC support](#) for more information. As a result, some changes have been implemented:

- The **Mainframe Discoverer** will detect a project (and therefore automatically create an Analysis Unit) for each `*.tra` file discovered in a folder. See [Mainframe - Application qualification specifics](#) for more information about how to generate this file type using JCL.
- `.tra` files have been added to the list of files that will be automatically analyzed - see for example [Mainframe - Analysis configuration](#)
- New **object types** will be resolved - see [Mainframe - Analysis results](#):

	IMS Transaction File
	IMS Transaction

- A new option has been added to the Delivery Manager Tool when delivering a PDS dump file, specifically to collect IMS DC related items - click to enlarge:



### JCL - Support for INZUTILB and DSNTIAUL

Support for SQL embedded in INZUTILB and DSNTIAUL items has been added.

### User Input Security

#### AIPCORE-1373 - support for Ektor Java API for CouchDB

NoSQL injections for applications using Ektor Java API for CouchDB can now be detected.

## **AIPCORE-1371 - support for LightCouch for Java**

NoSQL injections for applications using LightCouch for Java can now be detected. Results are provided via the rule [8418 - Avoid NoSQL injection](#).

## **AIPCORE-1348 - improved coverage of logger methods**

Methods like "logError", "logInfo", etc. used in loggers are now automatically taken into account.

## **AIPCORE-1301 - improved logs**

Where a blackbox contains a duplicated type (according to their mangling), the log of the tool will contain more detailed information about the issue (the name of the duplicated type or the name of the duplicated blackbox, etc.).

## **AIPCORE-1238 - improved handling of duplicate paths**

In previous releases some violations were removed if other violation paths were found in other files with a similar position of the starting path and the ending path (same row and same column for both). The algorithm for detecting these duplicate paths has now been rewritten to provide more accurate results.

## **AIPCORE-1226 - support for NoSQL - Azure Cosmos DB (.NET)**

NoSQL injections for applications using Azure Cosmos DB for .NET can now be detected. Results are provided via the rule [8418 - Avoid NoSQL injection](#).

## **AIPCORE-1225 - support for NoSQL - Azure Cosmos DB (Java)**

NoSQL injections for applications using Azure Cosmos DB for Java can now be detected. Results are provided via the rule [8418 - Avoid NoSQL injection](#).

## **AIPCORE-1142 - improved detection of targets of the method java.io.Console.format**

The targets of the method java.io.Console.format - String fmt, Object... args etc. - are now correctly detected.