

Mainframe - Prepare and deliver the source code

- [Preparation - source code discovery](#)
- [Using CAST AIP Console](#)
 - [Source code delivery](#)
 - [Handling PDS dump files](#)
- [Using legacy CAST Delivery Manager Tool](#)
 - [How do I add a source code package to my delivery](#)
 - [What you should package?](#)
 - [If you already have Mainframe files on disk \(.cob, .jcl etc.\)](#)
 - [If you have a PDS dump on disk](#)
 - [How do I fine-tune my Version ?](#)
 - [How do I deliver the Version for analysis?](#)
 - [Delivery acceptance](#)

 **Summary:** This section describes how to prepare and deliver the source code of your Mainframe application.

Preparation - source code discovery

Discovery is a process that is actioned during the delivery process. CAST will attempt to automatically identify "projects" within your application using a set of predefined rules. Discoverers are currently **embedded in CAST AIP Core**:

- [Mainframe Discoverer](#)

You should read the relevant documentation for each discoverer (provided in the link above) to understand how the source code will be handled.

Using CAST AIP Console

 See [Application onboarding](#) for more information.

Source code delivery

AIP Console expects either a **ZIP/archive file** or **source code located in a folder** configured in AIP Console. You should include in the ZIP/source code folder all Mainframe source code:

- **Cobol:** *.cob, *.cbl, *.pco, *.sqb, *.cpy, *.cop, *.cpb
- **JCL:** *.jcl, *.prc, *.mbr, *.inc
- **IMS:** *.dbd, *.psb, *.tra (8.3.19), .mfs (8.3.25)
- **CICS:** *.csd, *.cics, *.bms

CAST highly recommends placing the files in a folder dedicated to Mainframe. If you are using a ZIP/archive file, zip the folders in the "temp" folder - but do not zip the "temp" folder itself, nor create any intermediary folders:

```
D:\temp
|-----Mainframe
|-----OtherTechno1
|-----OtherTechno2
```

Handling PDS dump files

A PDS is a type of "library" containing elements known as "members" exported from a **z/OS system** (eg. Cobol programs, copybooks, JCL etc.) Each member in the PDS is preceded by a banner containing the member's name (among other information) and is concatenated with other elements in text format. Since **AIP Console 1.19**, it is possible to deliver source code via a PDS dump. As with the legacy CAST Delivery Manager, AIP Console only supports one type of member and one banner prefix per PDS dump file. If there are several types of members they must be delivered through multiple dump files and if several banner prefixes are used for the same type of members, then the source code delivery must also be done through multiple dump files.

If you want to deliver **PDS dump files** (containing the Mainframe source code) in the ZIP or the source code folder location, you will need to configure AIP Console to recognise them. This can be done using the [Administration Center - Settings - Mainframe libraries - PDS Dump](#) option available in [Administration Center - Global Configurations](#):

^  Mainframe libraries (PDS Dump) + ADD

| Library extension | Library content | Banner prefix | Left margin | Line maxLength | |
|-------------------|-----------------|---------------|-------------|----------------|---|
| COPYX | Cobol Copybook | VMEMBER NAME | 1 | 80 |   |

Rows per page: 10 ▾ 1 - 1 of 1 ← →

Out of the box, AIP Console will have one PDS library extension predefined. This will ensure that AIP Console is able to recognise PDS dump files provided in the source code configured as follows:

- with the extension .COPYX
- Containing Cobol Copybooks
- With the banner prefix VMEMBER NAME
- With the left margin set to 1
- with the line max length set to 80

| Library extension | Library content | Banner prefix | Left margin | Line maxLength |
|-------------------|-----------------|---------------|-------------|----------------|
| COPYX | Cobol Copybook | VMEMBER NAME | 1 | 80 |

You can leave this predefined PDS type as is, or you can delete/edit as necessary.

Each PDS dump file that is recognised by AIP Console will be extracted: one file (that the CAST Mainframe Analyzer can analyze) will be created per element in the PDS dump file and these files are then analyzed when an analysis is run.

Using legacy CAST Delivery Manager Tool

How do I add a source code package to my delivery

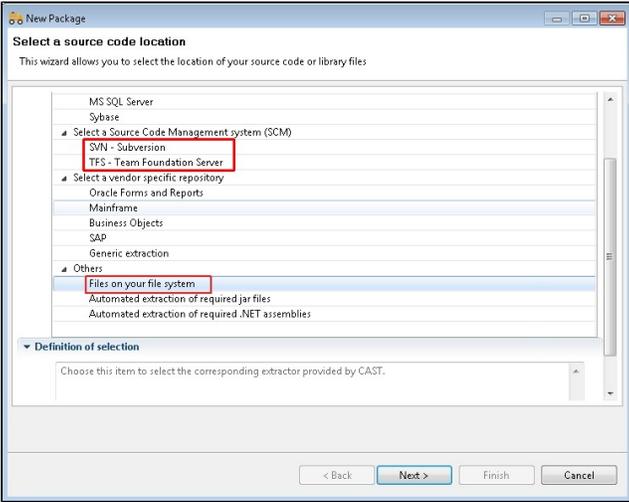
See [How do I add a source code package to my delivery.](#)

What you should package?

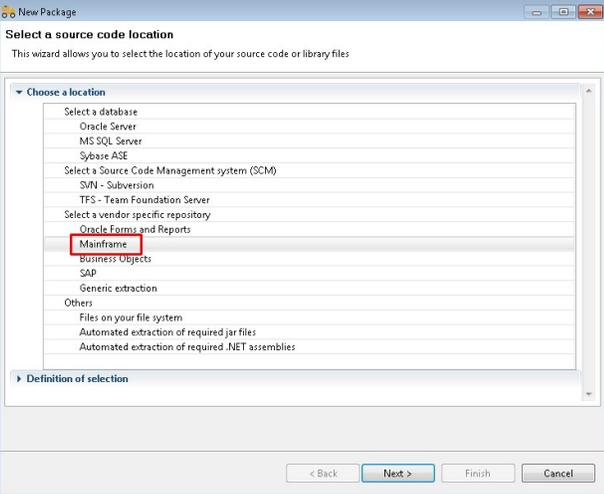
When creating packages to discover and extract your Mainframe application you should create them as listed below

If you already have Mainframe files on disk (.cob, .jcl etc.)

| Package | Package name/type | Mandatory? | Location /path | Notes |
|---------|-------------------|------------|----------------|-------|
|---------|-------------------|------------|----------------|-------|

| | | | | |
|---|-------------|---|-------------------------|---|
| 1 | Source code | ✓ | Source code root folder | <p>Use one of the options described in Packaging source code for file technologies in the CAST Delivery Manager Tool (example below):</p> <p><i>Click to enlarge</i></p>  |
|---|-------------|---|-------------------------|---|

If you have a PDS dump on disk

| Package | Package name /type | Mandatory? | Location /path | Notes |
|---------|--------------------|------------|-------------------|--|
| 1 | Source code | ✓ | PDS dump location | <p>Use the "Mainframe" option in the CAST Delivery Manager Tool:</p> <p><i>Click to enlarge</i></p>  <p>The Mainframe PDS dump option is designed for target Mainframe source code (Cobol, JCL etc.) that is the result of a PDS (Partitioned Data Set) dump.</p> <p>A PDS is a type of "library" containing elements known as "members" exported from a z/OS system (eg. Cobol programs, copybooks, JCL etc.) Each member is in text format. The CAST Delivery Manager Tool package for PDS dumps only supports one type of members and one banner prefix per file. If you have multiple members of the same type, then the source code delivery must be done through multiple dump files.</p> <p>The CAST Delivery Manager Tool enables you to specify one or more PDS dumps - each dump that is specified will be extracted: one file (that the CAST Delivery Manager Tool packages ready for analysis).</p> <div style="border: 1px solid gray; padding: 5px; margin-top: 10px;"> <p> The PDS dump file does not need to be available during the analysis process in the CAST Management Studio because the CAST Delivery Manager Tool packages ready for analysis.</p> </div> <p>When configuring the package, use the Add button to add the PDS dump file.</p> |

Where is your source code?

Choose the type of SCM or File system you want to target in the drop down list. Depending on the

◆ Repository targeted

Selected Mainframe library files (PDS dump) description

◆ Mainframe libraries files (all PDS dump)    

| Library file path (PDS dump) | Library content |
|------------------------------|-----------------|
| d:\cast2.pds | Cobol Copybook |
| d:\cast.pds | Cobol Program |

A dialog box will enable you to configure the settings for the PDS dump file:

[Click to enlarge](#)

^  Mainframe libraries (PDS Dump) + ADD

| Library extension | Library content | Banner prefix | Left margin | Line maxLength | |
|-------------------|-----------------|---------------|-------------|----------------|---|
| COPYX | Cobol Copybook | VMEMBER NAME | 1 | 80 |   |

Rows per page: 10 1 - 1 of 1  

| | |
|-------------------------------------|--|
| Library file path (PDS dump) | Allows you to select the absolute location of your PDS dump file. Use the browse button to select the PDS dump file on |
| Library content | This option enables you to choose the content of the PDS dump file that will be extracted and packaged - i.e selecting C accepted by the Mainframe Analyzer. |
| Banner prefix | Indicates the left hand part of the banner in the PDS dump excluding the member name. This determines the start of ea |
| Left margin | Indicates the line column(s) in which system characters are present. This column (or columns) are ignored during the ex |
| Line max size | For each member line that will be extracted, this value indicates the line max size that will be retained during the extracti packaging process and are not transferred to file. |

How do I fine-tune my Version ?

See [How do I fine-tune my Version](#) for more information.

How do I deliver the Version for analysis?

See [How do I deliver the Version for analysis](#) for more information.

Delivery acceptance

See [Validate and Accept the Delivery](#) for more information.