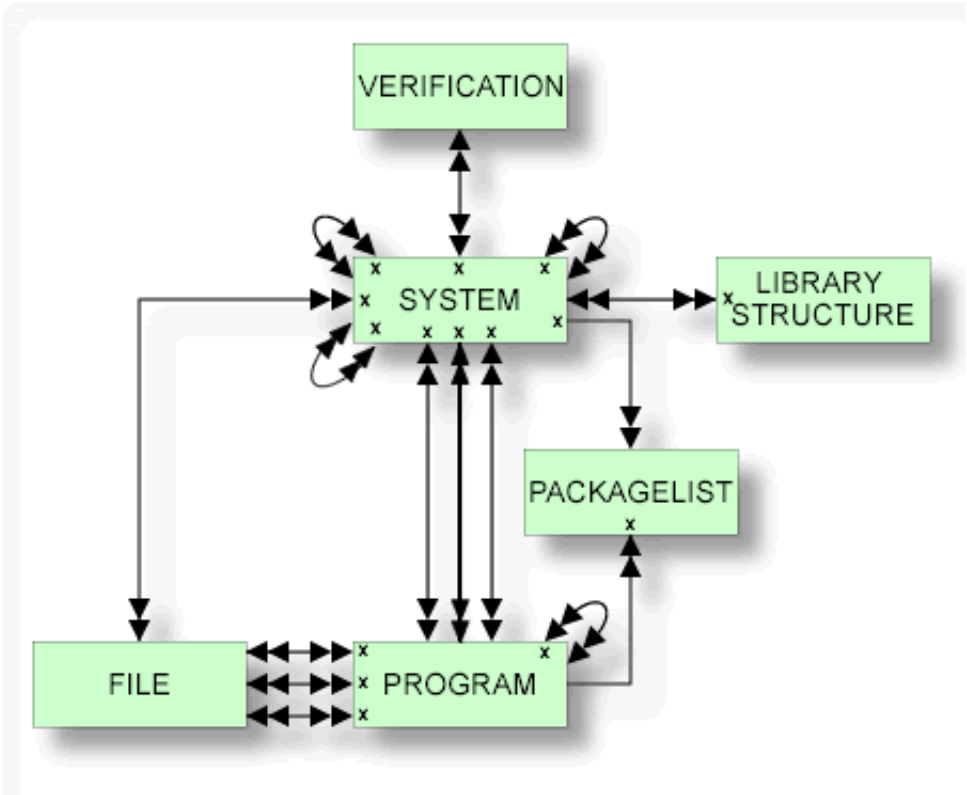
System

An application can be documented with a Predict object of type System. See parameters in the section System Maintenance Menu for a list of possible system types.

In the predefined Predict metastructure, a system can have passive and active associations of the following types:

Valid passive associations:	*Contained in LS* *Is subappl. of SY* *Is library of SY*
Valid active associations:	*Uses PR concept.* (default active association) *Uses PG* *Has subappl. SY* *Has component PR* *Has component VE* *Has component FI* *Has library SY*



This section covers the following topics:

- System Maintenance Menu
- System-Specific Maintenance
- System Retrieval

System Maintenance Menu

The System Maintenance menu is called with function code M and object code SY in a Predict main menu or the command MAINTAIN SYSTEM.

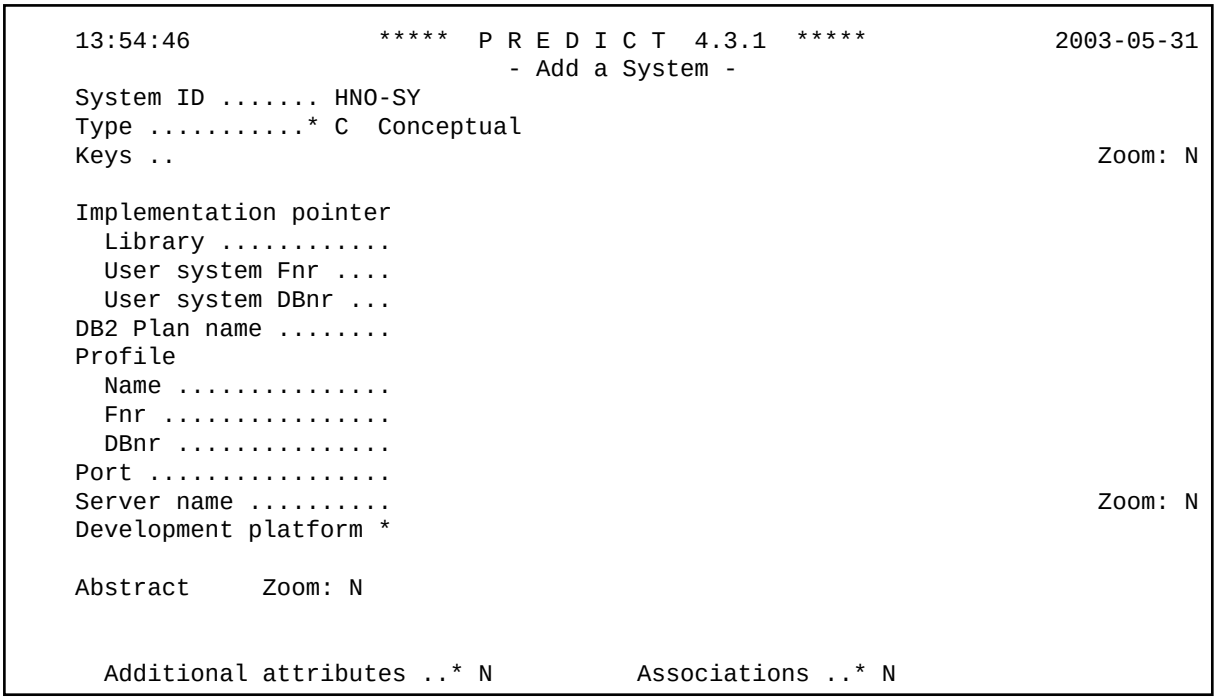
```
13:51:33            *****  P R E D I C T  4.3.1  *****            2003-05-31
Plan   0               - (SY) System Maintenance -               Profile HNO

 Function                              Function

 A  Add a system                       D  Display system
 C  Copy system                        L  Link children
 M  Modify system                      S  Select system from a list
 N  Rename system
 P  Purge system


Function .........

System ID ........                                 Attributes ........*
Copy ID ..........                                 System of type ....*
Library ..........                                 User system Fnr ....
                                                   User system DBnr ...

Restrictions ....*   Profile HNO,used              Association .......*

Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Next  Stop  Last  LnkEl Flip  Print Impl  AdmFi SelFi Prof  Main
```

Note:
Parameters not listed here are described under Global Attributes.

Parameters	
Function	Standard functions are described in the section Maintenance in the Predict Reference documentation. Functions Purge system and Rename system are described under System-Specific Maintenance.
System of type	For the Select function: a system type can be specified as a selection criterion. For the Add and Copy functions: the system type can be specified here. This type will be passed to the add System or copy System screen. Valid values: **A** Application Library **B** Base Application **C** Conceptual. Used to outline the preliminary description of an application in the design phase. **G** 3GL Application **O** Compound Application **P** DB2 plan. Used to document a DB2 application. **blank** all
Library, User system Fnr/DBnr	For the select function: Implementation pointer values can be used to restrict the scope of objects to be processed. Only those Predict system objects will be processed that document libraries meeting the specified Library/Fnr/DBnr parameters.

Add/Copy/Modify System Screen

The screen is displayed for the Add a System function. The Copy and Modify screens are similar.



Note:
Parameters not listed here are described under Global Attributes.

Parameters	
System ID	The ID of the Predict system object. A read-only field.
Type	System type. Enter asterisk to display valid values or see list in the section System Maintenance Menu above.
Implementation pointer	
Library	The name of the library. For type G: The library can not be changed if XRef data exists (the library is used by a 3GL program).
User system Fnr	The file number of the user system file (FUSER).
User system DBnr	The database number of the user system file.
DB2 plan name	Unique DB2 plan name. Only applicable to DB2 plans (systems of type P).
Profile	
Name	The name of the profile.
Fnr	The number of the user system file.
DBnr	The number of the database in which the user system file is located.
Port	The port number.
Servername	The name of the server.
Development platform	The development platform. Enter one of the following values: • MAINFRAME • UNIX • PC • VMS. This parameter specifies, which type of server the application is developed for.

System-Specific Maintenance

Identifying Systems

Systems documented with Predict objects of type System can be identified with three parameters: library, file number and database number. The three possible combinations of these parameters are shown below.

Library	Y	Y	Y
File number		Y	Y
Database number			Y

Purge System - Code P

The following rules apply to this function:

- A system of type A (Application Library) cannot be deleted if it is linked to one or more systems via association *Has library SY*.
- A system of type G (3GL application) cannot be deleted if XRef data exist.
- If you confirm the function with **DELETE**, the following objects are deleted:

  - the system object
  - all links to child objects
  - all links from parent objects
- If you confirm with **SCRATCH**, the following objects are deleted additionally:
  - Programs linked to the system via association *Belongs to SY*
    (programs that are linked to packagelists via *Contained in PG* are not deleted)
  - all links to/from objects that are deleted together with the system
  - XRef data for the system (including DBRMs and system programs)
  - XRef data for scratched programs (parameter Language = Ada, BAL, COBOL, FORTRAN, PL/I, Static SQL, System Program).

Rename System - Code N

Use this function to change the ID and/or type of a system object. The following restriction applies:

- You cannot change the type of a system of type 3GL application for which XRef data exists.
- You cannot change the type of a system of type A (Application Library) if it is linked to one or more systems via association *Has library SY*.

System Retrieval

System-Specific Retrieval Parameter

All system-specific retrieval parameters are described in the section System Maintenance Menu.

Systems with Children - Code T, with Child Type Program

The retrieval function Systems with Children (with association *Uses PR concept.*) evaluates only documentation data. If you require information on an implemented system, use the active retrieval function Systems containing programs.

Layout of System Lists

```
13:40:59            *****  P R E D I C T  4.3.1  *****            2003-05-31
                               - List System -                      Page:   1

 Cnt  System ID                              Type Library  Fnr DBnr

    1 ADABAS                                   C
    2 ARH-LO                                   C
    3 * ARH-SYS                                A  ARH
    4 ARH-SYS-P                                P
```

Meaning of Columns	
System ID	ID of the system object. If the output option Mark implementation is set to Y implemented objects are marked with an asterisk. 'Implemented' in this case means that XRef data exists for at least one program contained in a library documented by the system object.
Type	The type of system. See list of valid types and codes under System Maintenance Menu.
Library, Fnr, DBnr	Information on where a system is implemented: Library, file number and database number of the user system file.

Output Options for System Retrieval

The output options valid for this object type are identical to those for object type Dataspace. See Output Options for Dataspace Retrieval.

