

XRef Considerations

All cross-reference (XRef) data stored in the Predict system file for a cataloged programming object can be processed with SYSMAIN.

The Predict system file is determined by the value assigned to the profile parameter `FDIC` (see *FDIC - Predict System File* in the *Parameter Reference* documentation) in the parameter file or at the start of the Natural Studio session.

You can override the current `FDIC` settings for the duration of the current SYSMAIN function by using the **FSEC/FDIC** button and changing the entries in the **FDIC** group boxes (see *File Security in Remote Environments*) or specifying the `DIC` keyword in a SYSMAIN command (see also *where-clause* in *Using SYSMAIN with Subprogram*).

The **XREF** check box in the **Code** group box or the `XREF` keyword in a SYSMAIN command indicates whether SYSMAIN should process XRef data.

If Predict has not been installed, you can clear the **XREF** check box (or set `XREF` to `N`) to not perform a validation of Predict files. This is the default setting.

The section below covers the following topics:

- Processing of XRef Data
 - XRef Processing Errors
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Processing of XRef Data

No XRef data is processed if the **XREF** check box is cleared or if the `XREF` keyword is set to `N` when using a SYSMAIN command.

XRef data is processed if the **XREF** check box is selected or if `XREF` is set to `Y`.

Regardless of what setting you choose, XRef data is always deleted when a programming object is deleted.

If XRef data is to be processed, the following actions are applied during SYSMAIN processing:

- SYSMAIN checks whether XRef data exists in the Predict source system file for the specified programming object.
- If a programming object is to be deleted from the target environment, XRef data is deleted from the Predict target system file.
- If a programming object is copied to a new environment, the XRef data of the programming object is copied from the Predict source system file to the Predict target system file. The library name is changed accordingly and, in the case of the rename function, the object name is also changed.
- If the move function is executed, the XRef data of the programming object is deleted from the Predict source system file.

XRef Processing Errors

If any of the following inconsistencies occur during SYSMAIN processing of XRef data, all processing for the object or function is terminated and an error message is displayed:

- The value of the XREF option in Natural Security is set to Y and you cleared the **XREF** check box or set XREF to N respectively.
- The **XREF** check box is selected (or XREF set to Y) and the FDIC file(s) being used are not valid Predict files.