

Database Interfaces

This section covers the following topics:

- Natural for Adabas
 - Natural for DB2
 - Natural for DL/I
 - Natural for VSAM
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Natural for Adabas

Natural Version 4.1 will require at least Adabas Version 7.1. Consequently, Adastar will no longer be supported.

The following Adabas-related enhancements will be provided with Natural Version 4.1:

- Dynamic change of reading direction within an active READ or HISTOGRAM processing loop.
- Dynamic repositioning within a READ processing loop.
- New comparators LESS/GREATER THAN and LESS/GREATER EQUAL for READ and HISTOGRAM statements.
- Support of Multi-Fetch in FIND, HISTOGRAM and READ statements.
- ENDING AT value in HISTOGRAM and READ statements controlled by the database itself.
- Universal Encoding Support (UES) to support unicode code pages.
- Support of the Adabas Transaction Manager.

Natural for DB2

The following DB2-related enhancements will be provided with Natural Version 4.1:

- The SQL syntax enhancements provided by DB2 Versions 6 and 7 will be supported.
- At present, you have to use Natural format A for SQL data types DATE and TIME. With Version 4.1, it will be possible to use Natural variables of formats D and T; these will automatically be converted to SQL data types DATE and TIME.
- Large objects (alphanumeric and binary variables of up to 1 GB) will be supported.
- In addition to the two existing DB2 parameter styles, the new parameter style "DB2SQL" for the passing of data to stored procedures will be supported.
- It will be possible to write "user-defined functions" in Natural.
- Support of insensitive and sensitive static scrollable cursors in the Natural SQL statement SELECT.
- New comparators LESS/GREATER THAN and LESS/GREATER EQUAL for READ and HISTOGRAM statements.
- ENDING AT value in HISTOGRAM and READ statements controlled by the database itself.
- Dynamic change of reading direction within an active READ or HISTOGRAM processing loop.

Natural for DL/I

The following DL/I-related enhancements will be provided with Natural Version 4.1:

- Dynamic repositioning within a READ processing loop.
- New comparators LESS/GREATER THAN and LESS/GREATER EQUAL for READ and HISTOGRAM statements.
- ENDING AT value in HISTOGRAM and READ statements controlled by the database itself.

Natural for VSAM

The following VSAM-related enhancements will be provided with Natural Version 4.1:

- Support of "Transactional VSAM".
- Dynamic repositioning within a READ processing loop.
- New comparators LESS/GREATER THAN and LESS/GREATER EQUAL for READ and HISTOGRAM statements.
- ENDING AT value in HISTOGRAM and READ statements controlled by the database itself.