## **Defining NaturalX Objects**

General syntax of DEFINE DATA OBJECT:

| [ | OBJECT | USING     | local-data-area                  |  |
|---|--------|-----------|----------------------------------|--|
|   | •      | data-defi | parameter-data-area 】}<br>nition |  |

This chapter covers the following topics:

- Function
- Syntax Description

For an explanation of the symbols used in the syntax diagram, see Syntax Symbols.

## Function

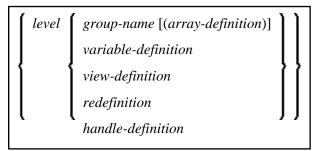
The DEFINE DATA OBJECT statement is used in a subprogram or class in conjunction with NaturalX. For further information, refer to the section *NaturalX* in the *Programming Guide*.

## **Syntax Description**

| USING local-data-area        | A local data area (LDA) contains data elements which are to be used in<br>a single Natural module. You may reference more than one data area;<br>in that case you have to repeat the reserved words OBJECT and<br>USING, for example:<br>DEFINE DATA<br>OBJECT USING DATX_L<br>OBJECT USING DATX_P<br><br>END-DEFINE ;<br>For further information, see also Defining Fields in a Separate Data<br>Area in the Programming Guide. |  |
|------------------------------|--|--|
| USING<br>parameter-data-area | A data area defined with DEFINE DATA OBJECT may be a<br>parameter data area (PDA). By using a PDA as an object data area you<br>can avoid the extra effort of creating an object data area that has the<br>same structure as the PDA.  |  |
| data-definition              | Data can also be defined directly using the syntax shown in the section <i>Direct Data Definition</i> below.   |  |
| END-DEFINE                   | The Natural reserved word END-DEFINE must be used to end the DEFINE DATA statement.  |  |

## **Direct Data Definition**

Data can also be defined directly using the following syntax:



For further information, see also *Defining Fields within a DEFINE DATA Statement* in the *Programming Guide*.

| level               | Level number is a 1- or 2-digit number in the range from 01 to 99 (the leading zero is optional) used in conjunction with field grouping. Fields assigned a level number of 02 or greater are considered to be a part of the immediately preceding group which has been assigned a lower level number. |
|---------------------|--|
|                     | The definition of a group enables reference to a series of fields (may also be only 1 field) by using the group name. With certain statements (CALL, CALLNAT, RESET, WRITE, etc.), you may specify the group name as a shortcut to reference the fields contained in the group.                        |
|                     | A group may consist of other groups. When assigning the level numbers for a group, no level numbers may be skipped.  |
|                     | A view-definition must always be defined at Level 1.   |
| group-name          | The name of a group. The name must adhere to the rules for defining a Natural variable name. See also the following sections:  |
|                     | • <i>Naming Conventions for User-Defined Variables</i> in the <i>Using Natural</i> documentation.  |
|                     | • Qualifying Data Structures in the Programming Guide.   |
| array-definition    | With an <i>array-definition</i> , you define the lower and upper bounds of dimensions in an array-definition. See <i>Array Dimension Definition</i> .  |
| variable-definition | A <i>variable-definition</i> is used to define a single field/variable that may be single-valued (scalar) or multi-valued (array). See <i>Variable Definition</i> .  |
| view-definition     | A <i>view-definition</i> is used to define a view as derived from a data definition module (DDM). See <i>View Definition</i> .   |
| redefinition        | A <i>redefinition</i> may be used to redefine a group, a view, a DDM field or a single field/variable (that is a scalar or an array). See <i>Redefinition</i> .  |
| handle-definition   | A handle identifies a dialog element in code and is stored in handle variables. See <i>Handle Definition</i> .   |