Defining NaturalX Objects

General syntax of DEFINE DATA OBJECT:

[OBJECT	USING	local-data-area	
	•	data-defi	parameter-data-area 】} 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

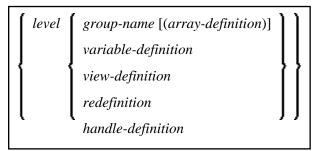
The DEFINE DATA OBJECT statement is used in a subprogram or class in conjunction with NaturalX. For further information, refer to the section *NaturalX* in the *Programming Guide*.

Syntax Description

USING local-data-area	A local data area (LDA) contains data elements which are to be used in a single Natural module. You may reference more than one data area; in that case you have to repeat the reserved words OBJECT and USING, for example: DEFINE DATA OBJECT USING DATX_L OBJECT USING DATX_P END-DEFINE ; For further information, see also Defining Fields in a Separate Data Area in the Programming Guide.	
USING parameter-data-area	A data area defined with DEFINE DATA OBJECT may be a parameter data area (PDA). By using a PDA as an object data area you can avoid the extra effort of creating an object data area that has the 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> .