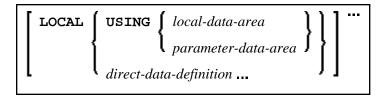
Defining Local Data Defining Local Data

Defining Local Data

General syntax of DEFINE DATA LOCAL:



This chapter covers the following topics:

- Function
- Restriction
- Syntax Description

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

Function

The DEFINE DATA LOCAL statement is used to define the data elements that are to be used exclusively by a single Natural module in an application. These elements or fields can be defined in different ways:

- either within the DEFINE DATA LOCAL statement itself, using the direct-data-definition syntax (see Direct Data Definition)
- or outside the program in a separate LDA (*Local Data Area*) or PDA (*Parameter Data Area*), with the DEFINE DATA LOCAL USING statement referencing that data area.

Restriction

The LDA and the objects which reference it must be contained in the same library (or in a steplib).

Syntax Description

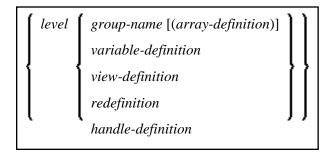
Defining Local Data Direct Data Definition

Syntax Element	Description
local-data-area	LDA Name:
	Specify the name of the local data area (LDA) to be referenced.
	An LDA is created using the <i>Data Area Editor</i> . It contains predefined data elements which can be included in the DEFINE DATA LOCAL statement.
	You may reference more than one data area; in that case you have to repeat the reserved words LOCAL and USING, for example:
	DEFINE DATA LOCAL LOCAL USING DATX_L LOCAL USING DATX_P
	END-DEFINE ;
	For further information, see also <i>Defining Fields in a Separate Data Area</i> and <i>Local Data Area</i> , <i>Example 2</i> in the <i>Programming Guide</i> .
parameter-data-area	PDA Name:
	Specify the name of a parameter data area (PDA).
	Note: A data area referenced with DEFINE DATA LOCAL may also be a parameter data area (PDA). By using a PDA as an LDA you can avoid the extra effort of creating an LDA that has the same structure as the PDA.
	A PDA is created using the <i>Data Area Editor</i> .
	For further information, see <i>Parameter Data Area</i> in the <i>Programming Guide</i> .
direct-data-definition	Direct Data Definition:
	For information on how to define elements or fields within the statement itself, that is, without using an LDA or PDA, see the section <i>Direct Data Definition</i> below.
END-DEFINE	End of DEFINE DATA Statement:
	The Natural reserved word END-DEFINE must be used to end the DEFINE DATA statement.

Direct Data Definition

Local data can be defined directly within a program or routine. For direct data definition, the following syntax applies:

Direct Data Definition Defining Local Data



For further information, see

- Example 1 DEFINE DATA LOCAL (Direct Data Definition)
- Defining Fields within a DEFINE DATA Statement in the Programming Guide
- Local Data Area, Example 1 in the Programming Guide

Syntax Element Description for Direct Data Definition:

Syntax Element	Description
level	Level Number:
	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	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:
	• Naming Conventions for User-Defined Variables in Using Natural.
	• Qualifying Data Structures in the Programming Guide.

Defining Local Data Direct Data Definition

Syntax Element	Description
array-definition	Array Dimension Definition:
	With an array-definition, you define the lower and upper bounds of dimensions in an array-definition.
	See Array Dimension Definition.
variable-definition	Variable Definition:
	A variable-definition is used to define a single field/variable that may be single-valued (scalar) or multi-valued (array).
	See Variable Definition.
view-definition	View Definition:
	A view-definition is used to define a view as derived from a data definition module (DDM).
	See View Definition.
redefinition	Redefinition:
	A redefinition 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 Redefinition.
handle-definition	Handle Definition:
	A handle identifies a dialog element in code and is stored in handle variables. See <i>Handle Definition</i> .