

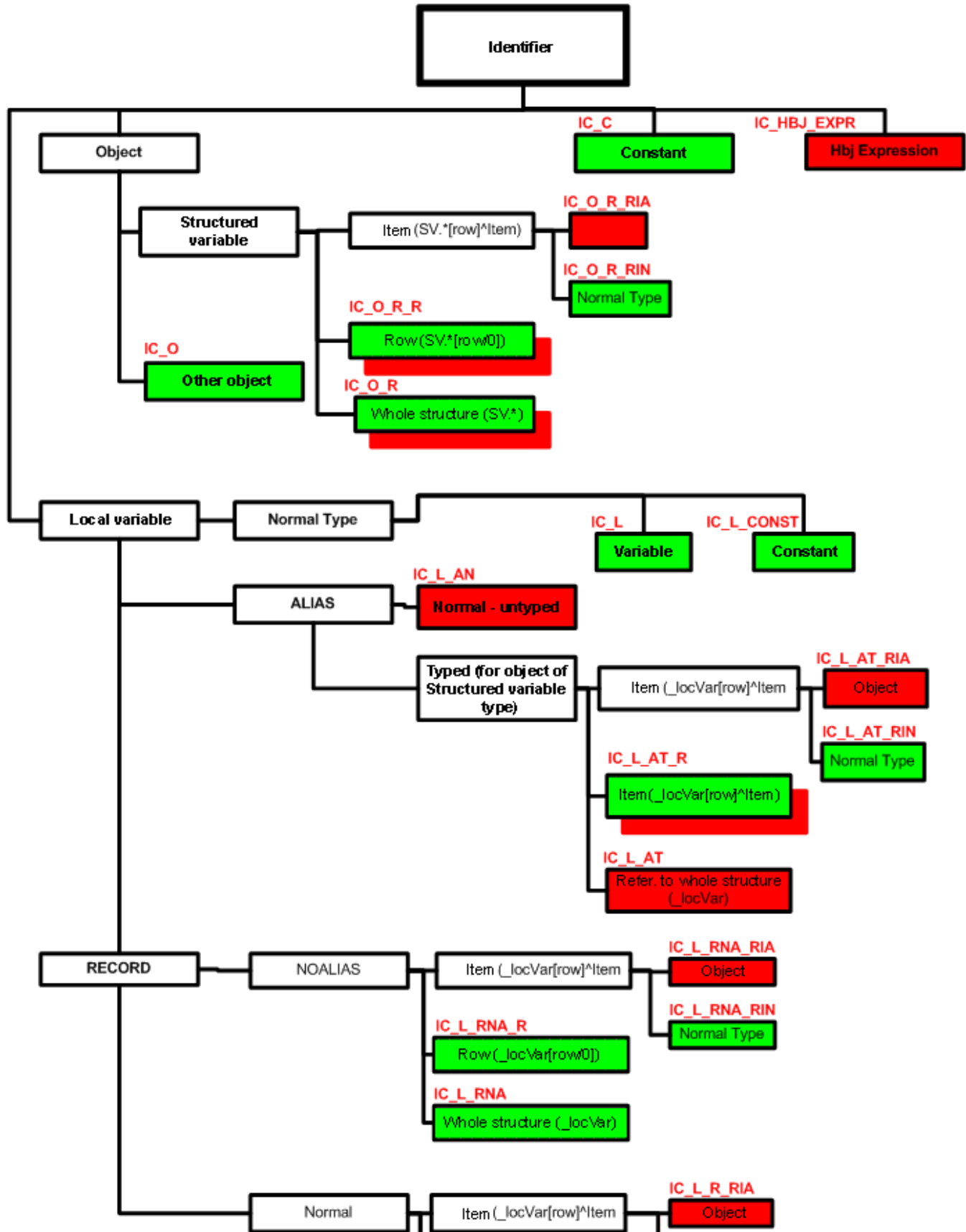
Identifiers in ESL

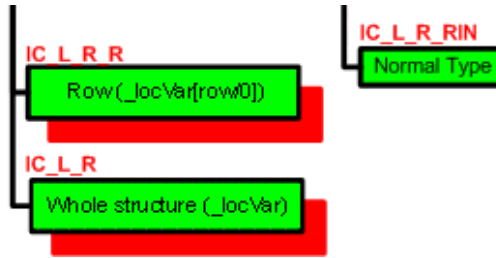
Identifiers

Identifiers in the script provide the access to the value of an object or a local variable. In the case of a structured value, it is possible to access the whole value, the row of a structured variable, or its item through an identifier.

The following figure shows and names all possible methods of reference to a value, which are used in ESL:

Normal Type = INT, TEXT, BOOL, REAL, TIME, ...





Notes:

- Only colored boxes show a value.
- A green-colored box represents a value (group of values in case of a structure), with no references to other objects (ALIAS or column of the *Object* type).
- A red-colored box represents a value (group of values in case of a structure), with references to other objects (ALIAS or column of the *Object* type).
- A combination of red and green colors represents a value (group of values in case of a structure) where values and references may be combined.
- Each method of reference to value is named (red text above box).

Examples for individual types of references to value:

Reference type (name)	Value description	Example
IC_C	Constant.	"Text", 1, ...
IC_HOBJ_EXPR	Expression of INT type that is interpreted as the reference to an object. The object is enclosed in brackets on the position where the identifier is expected.	(20), (Sec\HBJ)
IC_VOBJ_EXPR	Three comma-separated expressions enclosed in brackets: 1. unique identifier - an expression of HOBJ type 2. row number - an expression of the INT type 3. column number - an expression of the INT type Note: The reference may only be used as a reference to a historical value for the GETARCHVAL , GETARCHARR , and SETDT_LINEOBJ actions.	(H.Struct\HBJ, 2, 3)
IC_O	An object of a type other than the Structured variable .	Sec, SysTime, I/O tag, ...
IC_O_R	An object of Structured variable type.	SV.Structure
IC_O_R_R	The row of object Structured variable type. If the index is 0, it means the whole value, like IC_O_R.	SV.Structure[2] , SV.Structure[0]
IC_O_R_RIA	The row item of objects of the Structured variable type. The item is <i>Object</i> type (a reference to an object).	SV.Structure[2]^Object
IC_O_R_RIN	The row item of objects of the Structured variable type. The item is not an <i>Object</i> type (a reference to an object).	SV.Structure[2]^Text
IC_L	A local variable of BOOL , INT , TEXT , TIME , or REAL types.	
IC_L_CONST	A constant (initialized) local variable of BOOL , INT , TEXT , TIME , or REAL type.	
IC_L_AN	A local variable of ALIAS type (untyped).	ALIAS _a
IC_L_AT	A local variable of typed ALIAS type (without index or access to item).	ALIAS (SD.RecordDef) _recA
IC_L_AT_R	The row of objects of the Structured variable type, to which the typed ALIAS currently refers. If the index is 0, it means the whole value.	_recA[1] or the whole value _recA[0]
IC_L_AT_RIA	The row item of an object of Structured variable type, to which the typed ALIAS currently refers. The item is <i>Object</i> type (a reference to an object).	_recA[1]^Object
IC_L_AT_RIN	The row item of an object of Structured variable type, to which the typed ALIAS currently refers. The item is not an <i>Object</i> type (a reference to an object).	_recA[1]^Text
IC_L_RNA	A local variable of the <i>Record</i> type. Reference to the whole value.	RECORD NOALIAS (SD.RecordDef) _recNA

IC_L_RNA_R	A local variable row of the <i>Record</i> type. If the index is 0, it means the whole value similar to IC_L_RNA.	_recNA[1] or the whole value _recNA[0]
IC_L_RNA_RIA	The row item of a local variable of <i>Record</i> type. The item is <i>Object</i> type (a reference to an object). Considering forbidden references to objects, the item represents a simple value (without predefined value type).	_recNA[1]^Object
IC_L_RNA_RIN	The row item of a local variable of <i>Record</i> type. The item is <i>Object</i> type (a reference to an object). Unlike IC_L_RNA_RIA, the value type of the item is defined.	_recNA[1]^Text
IC_L_R	A local structured variable. Reference to the whole value.	RECORD (SD . RecordDef) _rec
IC_L_R_R	A row of local variables of the <i>Record</i> type. If the index is 0, it means the whole value, like IC_L_R.	_rec[1] or the whole value _rec[0]
IC_L_R_RIA	The row item of a local variable of the <i>Record</i> type. The item is <i>Object</i> type (a reference to an object).	_rec[1]^Object
IC_L_R_RIN	The row item of a local variable of the <i>Record</i> type. The item is not an <i>Object</i> type (a reference to an object).	_rec[1]^Text
IC_L_NR	A local variable of the <i>Record</i> type (the structure type is not defined). The reference to the whole value.	RECORD () _rec
IC_L_NR_R	The row of local variables of the <i>Record</i> type (the structure type is not defined). If the index is 0, it is the whole value like IC_L_NR.	_rec[1] or the whole value _rec[0]
IC_L_NR_RII	The row item of local variables of the <i>Record</i> type (the structure type is not defined). The column is defined by the number.	_rec[1]^_iCol
IC_L_NRNA	A local variable of the <i>Record</i> type (the structure type is not defined). The reference to the whole value.	RECORD NOALIAS () _recNA
IC_L_NRNA_R	The row of local variables of the <i>Record</i> type (the structure type is not defined). If the index is 0, it is the whole value like IC_L_NRNA.	_recNA[1] or the whole value _recNA[0]
IC_L_NRNA_RII	The row item of local variables of the <i>Record</i> type (the structure type is not defined). The column is defined by the number.	_recNA[1]^_iCol



Related pages:

[Script actions](#)
[Terms used to describe actions](#)