

NEC Reality v15.2 Online Documentation (Revision 4)

This Documentation Note summarises the changed topics in the Revision 4 release of the NEC Reality v15.2 Online Documentation, made in response to enhancements, bug fixes and Documentation Comments from our customers. Minor typographical corrections and indexing changes are omitted.

For more detailed information, refer to the Online Documentation itself.

DataBasic Objects


The topics devoted to DataBasic Objects have been extensively re-written and updated to cover:


- Java language objects
- .NET language objects
- Internal objects

In particular, the following special methods are now all documented.

Special method	Description
%Admin	This method is used to discover information about an object. %Admin can be used with a connection object or language object.
%Array	This special method either creates an array object (when applied to a connection object) or returns an attribute mark delimited dynamic array (when applied to a language array object).
%Connect	This special method connects to a language server and returns a connection object.
%Decode	This special method converts JSON string escape sequences to single characters and JSON numbers to DataBasic format.
%Encode	This special method converts non-printable and reserved characters to JSON escape sequences.
%Enum	This special method returns an attribute mark delimited string that lists the field names in an internal object. However, it does not recurse through nested objects.
%GetError	This special method returns the error string returned by the last DBO exception.

Special method	Description
%GetErrorNum	This special method returns the error number returned by the last DBO exception.
%Import	This special method imports a Java package or a .NET assembly.
%Is	This special method tests an object, or a field of an object, to determine its type or what it contains.
%Length	This special method returns the length of an array object or element. Array indices start at 0 and end at %Length()-1.
%New	This special method returns a new object, either by instantiating a class (for language objects) or by creating an object from a JSON document or by copying an existing object (for internal objects). In addition, elements within an internal object — fields, arrays and nested objects — can also be copied.
%Null	This special method creates a reference to a null object.
%ObjMgr	This special method initialises a Object Manager and returns a connection object (also known as a manager object).
%Set	This special method is used with a connection object to modify the operation of the connection, or with an internal object to enable or disable various options that apply to that object.
%Static	This special method returns a reference to the static elements of a class object on the language server.
%Template	This special method populates the non-object elements of an internal object — fields and array items — from either a JSON document or a dynamic array.
%This	This special method is used to refer to elements in an array object.
%ToJSON	This special method converts an internal object to a JSON string.
%ToMV	This special method converts the <i>non-object</i> fields of an internal object to an attribute- and value-mark delimited multi-value string. (Object fields are ignored.)
%ToXML	This special method converts an internal object to an XML string.
%Type	This special method returns a string describing the type of a field.
%TypeOf	This special method returns a string describing the type of an object, field, or any other element.



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