

# GETARCHSTRUCT

## GETARCHSTRUCT actions

Functions

Declaration

Parameters

Description

Bulk read of archive values.

GETARCHSTRUCT archIdent, locRecDstIdent, timeIdent\_TmA, statusIdent\_Int

archIdent	in	<div>Reference to:<ul style="list-style-type: none"><li>an object of the <a>Structured variable</a> type,</li><li>a <a>local variable</a> of the <i>Record</i> type,</li><li>a <a>structured historical value</a>.</li></ul></div>
locRecDstIdent	output	<div>Local variable - read result.</div>
timeIdent_TmA	in	<div>Identifier of the <i>Absolute time</i> type.</div>
statusIdent_Int	output	<div>Read success.</div>
archiveInstance_Int	in	<div>Optional identifier of the <i>Int</i> type - identification of <a>archive instance</a>. If the parameter is not defined, the value 0 will replace it.</div>

The parameter *archIdent* represents structure or structured historical value. For each item, the action generates a request for reading its historical value in the given time (the parameter *timeIdent\_TmA*). The read result of each item is written into corresponding item of the local variable *\_locRecDstIdent*. The action resizes the local variable if necessary. The structure types of the parameters *archIdent* and *\_locRecDstIdent* must be the same.

The parameter *archIdent* can be defined by one of the following ways:

1. A local variable of the „typed ALIAS“ type

Example:

ALIAS (structure definition) \_IAT  
SET \_IAT AS SV.Struct  
GETARCHSTRUCT \_IAT, ...

Individual read requests are ALWAYS addressed to items of the structure *SV.Struct* (even if any of the items are of the *Object* type).

2. An object of the *Structured variable* type

Example:

GETARCHSTRUCT SV.Struct, ...

Request addressing is the same as described in the article 1.

3. A local variable of the *Record* type

Example:

RECORD (structure definition) \_IRec  
REDIM \_IRec[1]  
  
SET \_IRec[1]^Item1 AS Sec  
SET \_IRec[1]^Item2 AS SysTime  
SET \_IRec[1]^Item3 AS M.MeranyBod  
.....  
  
GETARCHSTRUCT \_IRec, ...

All the columns of the structure definition must be of the *Object* type. Individual read requests are to be addressed to the objects the row items refer to.  
If any item does not refer to object, the action is to be terminated and returns the ERR\_NO\_ASSIGNED\_ALIAS error.

4. A structured archive object

Example:

GETARCHSTRUCT H.Struct, ...

Individual read requests are to be gradually addressed to all items. The object *H.Struct* cannot be a one-column historical value.

The value of parameter *archiveInstance\_Int* defines the instance of archive which executes the request. If the parameter is not defined (or the value is 0), the active instance of archive will execute the request.

#### Example

[GETARCH\\* actions - example.](#)



#### Related pages:

[Script actions](#)