

GETARCHSTRUCT

GETARCHSTRUCT actions

Functions

Bulk read of archive values.

Declaration

```
GETARCHSTRUCT archIdent, locRecDstIdent, timeIdent_TmA, statusIdent_Int
```

Parameters

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

Description

The parameter *archIdent* represents structure or structured historical value. For each item, the action generates a request for reading its historical value in given time (the parameter *timeIdent_TmA*). 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. **Local variable of „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 *Object* type).

2. **Object of Structured variable type**
Example:

```
GETARCHSTRUCT SV.Struct, ...
```

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

3. **Local variable of 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 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. **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](#).

Value of parameter *archivInstance_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.](#)



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