DATAMANAGER
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5.0

Siemens UDS Interface

Technical Documentation from msp

DATAMANAGER SYNTAX SUMMARY (Release 5.0) FOR Siemens UDS INTERFACE

This card contains the formats of Siemens UDS Interface commands and data definitions implemented in DATAMANAGER Release 5.0.
For the full specifications of any command or data definition statement, reference should be made to the DATAMANAGER Siemens UDS Interface manual together with current User Notices.

SYNTAX NOTATION

variable	shown in lower case	{clause-1 / clause-2}	choice of one from many
KEYWORD	shown in upper case with underscored truncation limit *	[clause]	optional clause
		...	optional repetition
member-name	may be coded in quotes		

* Truncation limits may be affected if the DATAMANAGER User Defined Syntax facility or the CONTROLMANAGER User Defined Commands facility is in use.

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Siemens UDS Data Definitions

DATABASE

```
SUDS-DATABASE

AREAS area-name [,area-name]...

[SETS set-name [,set-name]...]

[PRIVACY-LOCK 'password' [,'password' [,'password']]]

[common clauses]

{;}
{.}
```

AREA

```
SUDS-AREA

[TEMPORARY]

[common clauses]

{;}
{.}
```

RECORD

```
SUDS-RECORD

WITHIN area-name [AND area-name [,area-name]...
                          AREA-ID identifier-1]

[LOCATION-MODE

     {DIRECT {ID identifier-2                                  }]
             {KEY item-name {IN} record-name                   }
             {              {OF}                               }
     {CALC [PROCEDURE module-name] USING item-name             }
                                     [,item-name]...           }
     {                                                         }
     {                          DUPLICATES {ALLOWED    }       }
     {                                     {DISALLOWED}       }

[SEARCH KEY item-name [,item-name]...

            USING {CALC [PROCEDURE module-name]}
                  {INDEX                       }

            [NAME table-name] DUPLICATES {ALLOWED    }]...
                                         {DISALLOWED}

CONTAINS content [,content]...

[DATABASE-KEYS item-name [,item-name]...]

[TRANSLATION-TABLE [SIZE j] [LOCATED-IN area-name]]

[POPULATION k FOR area-name [,k FOR area-name]...]

[PLACEMENT-SET set-name]

[INDEX table-name [PLACED-IN area-name]

        [TYPE {DB-KEY-LIST                                  }]]...
              {REPEATED-KEY [INDEX-REORGANIZATION m]        }

[COMPRESSION]

[common clauses]

{;}
{.}
```

Where content is:

```
{[(n)] item-name [version]} [ALIGNED] [KNOWN-AS local-name]
{(n) group-name            }
```

SET

```
SUDS-SET

[DYNAMIC]

ORDER {FIRST                                                  }
      {LAST                                                   }
      {NEXT                                                   }
      {PRIOR                                                  }
      {IMMATERIAL                                             }
      {SORTED [INDEXED [NAME table-name]]                     }
      {        {DATABASE-KEY                                  }
      {        {DEFINED-KEY DUPLICATES {ALLOWED    }          }
      {        {                       {DISALLOWED}          }

[OWNER record-name]

[MEMBER record-name [{MANDATORY}] [{AUTOMATIC}]
                     {OPTIONAL  }  {MANUAL   }

          [SORT KEY item-name [,item-name]... {ASCENDING }]
                                              {DESCENDING}

          [SEARCH KEY item-name [,item-name]...

             USING {CALC [PROCEDURE module-name]}
                   {INDEX                        }

             [NAME table-name] DUPLICATES {ALLOWED    }]...
                                          {DISALLOWED}

          [SELECTION {CURRENT                                 }]]
                     {OWNER [NAME id-name-1 IS id-name-2]...  }

[MODE

  {CHAIN [LINKED-PRIOR]                                       }]
  {{POINTER-ARRAY} {ATTACHED                                  }
  {{LIST         } {DETACHED [WITHIN area-name] [PHYSICAL]    }

[POPULATION j [INCREASE k]]

[REORGANIZATION m]

[INDEX table-name [PLACED {ATTACHED                }]
                          {DETACHED [IN area-name]}

            [TYPE {DB-KEY-LIST                          }]]...
                  {REPEATED-KEY [INDEX-REORGANIZATION n]}

[LINKED-OWNER]

[common clauses]

{;}
{.}
```

SUBSCHEMA

```
SUDS-SUBSCHEMA

ACCESSES database-name

[PRIVACY-LOCK 'password' [,'password' [,'password']]]

[PRIVACY-KEY 'password']

{ALL-AREAS                                  }
{AREAS area-name [,area-name]...            }

{ALL-RECORDS                                                }
{RECORDS {record-name} [,{record-name}]...                  }
{        {view-name  }   {view-name  }                     }

[{ALL-SETS                          }]
 {SETS set-name [,set-name]...      }

[common clauses]

{;}
{.}
```

VIEW

```
SUDS-VIEW

RECORD record-name

CONTAINS content [,content]...

[common clauses]

{;}
{.}

Where content is:

[(n)] {item-name [version]} [ALIGNED] [KNOWN-AS local-name]
      {group-name           }
```

Siemens UDS Processes Definition

PROCESSES

```
{SYSTEM}
{PROGRAM}
{MODULE}

    [PROCESSES SUDS SUBSCHEMAS
         subschema-name [, subschema-name]...]

    [CONTAINS member-name [, member-name]...]

    [INPUTS data-name [, data-name]...]

    [OUTPUTS data-name [, data-name]...]

    [UPDATES data-name [, data-name]...]

    [{CALLS process-name [, process-name]...}]
     {calls-clause-2...                      }

    [{PARAMETERS data-name [, data-name]...     }]
     {entry-point-clause...                     }

    [LANGUAGE 'string']

    [AUTHOR 'text'] [INSTALLATION 'text']

    [DATE-WRITTEN date] [SOURCE-COMPUTER 'text']

    [OBJECT-COMPUTER 'text'] [SPECIAL-NAMES 'text']

    [I-O-CONTROL 'text'] [ASSIGNMENT 'text']

    [EDIT-INPUT 'text'] [EDIT-OUTPUT 'text']

    [EDIT-UPDATE 'text']

    [common-clauses]

{;}
{.}

where

member-name identifies a member at the same or a lower level in
    the member type hierarchy

process-name identifies a process member at the same or a lower
    level in the member type hierarchy

data-name identifies a data member

calls-clause-2 is:

    CALLS process-name [AT 'string']
        [PASSING data-name [, data-name]...]

entry-point-clause is:

    ENTRY-POINT 'string' [PARAMETERS data-name
                                     [, data-name]...]
```

COMMON CLAUSES

> Common clauses apply to all MANAGER Product member types. Thus, for DATAMANAGER they apply to the basic set (SYSTEM through ITEM); to COMMAND-STREAM and OBSOLETE-DEFINITION; to database-specific sets (ADABAS, DL/I, IMS, IDMS, Siemens UDS, SYSTEM 2000/80, TOTAL); to the MARK IV set; and to User Defined sets (EDPS, SAS, SDS, user). Keyword truncation limits depend on the other keywords available in the data definition in which they appear; the limits shown below are unambiguous in any DATAMANAGER basic member definition. Further truncation may be acceptable if the truncated form remains unambiguous for the particular member type.

common-clauses is any of the following clauses:

```
ACCESS-AUTHORITY 'name' [ {READ-ONLY        } ]
                          {UPDATE           }
                          {SECURITY-CONTROL }

     [, 'name' [ {READ-ONLY        } ]]...
                 {UPDATE           }
                 {SECURITY-CONTROL }

ADMINISTRATIVE-DATA 'text'

ALIAS [alias-type] 'alias' [, [alias-type] 'alias']...

CATALOGUE 'classification' [, 'classification']...

COMMENT 'text'

DESCRIPTION 'text'

EFFECTIVE-DATE date

FREQUENCY {frequency                                                  }
          {{ACCESS } frequency [ {ACCESS } frequency]...              }
          {{RUN    }             {RUN    }                            }
          {{UPDATE }             {UPDATE }                            }
          {{BACK-UP}             {BACK-UP}                            }

where frequency is:

     {{MONTHLY} [{number  }]}
     {{WEEKLY }  {'string'}  }
     {{DAILY  }              }
     {{HOURLY }              }
     {number                 }
     {'string'               }

NOTE 'text'

OBSOLETE-DATE date

QUERY 'text'

SECURITY-CLASSIFICATION 'string' [FROM date]
     [, 'string' [FROM date]]...

SEE member-name [FOR 'string'] [, member-name [FOR 'string']]...
```

PRODUCE

```
PRODUCE UDS-DB

{ { SSL    } FROM database-name  }
{ { SCHEMA }                     }
{ SUBSCHEMA FROM subschema-name  }

[ { ONTO filename    } ]
  { NO GENERATION    }
  { NO-GEN           }

[ { PRINT    } ]      [ { WITH-ALIAS } [ { number     } ]]
  { NO-PRINT }         { ALIAS       }  { alias-type }
  { NOPRINT  }

{ ; }
{ . }
```

Siemens UDS Interrogation

The following keywords are available for use with the VIA clause of the DATAMANAGER interrogation commands, WHICH and WHAT:

ACCESSES
AREAS
DATABASE-KEYS
IN
KEYS
LOCATED-IN
MEMBER
OF
OWNER
PLACED-IN
PLACEMENT-SET
POPULATION-FOR
PROCEDURE
PROCESSES-SUDS
RECORD
RECORDS
SEARCH-KEYS
SETS
SORT-KEYS
WITHIN

The following keywords are allowed for SUDS member-types in the GIVING clause of the DATAMANAGER GLOSSARY command:

SUDS-SUBSCHEMAS

ACCESSES
AREA-SELECTION
AREAS
PRIVACY-KEY
PRIVACY-LOCK
RECORD-SELECTION
RECORDS
SET-SELECTION
SETS

SUDS-DATABASES

AREAS
PRIVACY-LOCK
SETS

SUDS-SETS

CALC
CHAIN
DEFINED-KEY
DETACHED
DUPLICATES
IN
INCREASE
INDEX
INDEX-REORGANIZATION
INDEXED
IS
KEY
LIST
MEMBER
MEMBER-NAME
MEMBERSHIP-ESTABLISHMENT
MEMBERSHIP-TERMINATION
MODE
NAME
OF
ORDER
OWNER
OWNER-LINKAGE
PLACED
POINTER-ARRAY
POPULATION
PROCEDURE
REORGANIZATION
REPEATED-KEY
SEARCH
SELECTION
SELECTION-METHOD
SET-TYPE
SORT
SORT-KEY-DIRECTION
SORT-METHOD
SORTED
TYPE
USING
WITHIN

SUDS-RECORDS

AREA-ID
CALC
CONTAINS
DATABASE-KEYS
DIRECT-KEY
DUPLICATES
FOR
ID
IN
INDEX
INDEX-REORGANIZATION
ITEM-COMPRESSION
KEY
LOCATED-IN
LOCATION-MODE
NAME
OF
PLACED-IN
PLACEMENT-SET
POPULATION
PROCEDURE
REPEATED-KEY
SEARCH
SIZE
TRANSLATION-TABLE
TYPE
USING
WITHIN

SUDS-VIEWS

CONTAINS
RECORD

SUDS-AREAS

AREA-TYPE