
HighQSoft



Technical Reference Sheet

Version 1.2

Ascoba

Karst Schaap 2006/11/17

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Chapter 1

Introduction

Athos is a toolkit to build ASAM-ODS products from basic components. Today the name Athos is also very often used to refer to our ASAM-ODS Server (Athos Server) or even our entire ASAM-ODS product line (Athos System).

Based on our flexible Athos Toolkit HighQSoft has developed a wide variety of products for managing your test data on Linux and MS-Windows based operating systems.

Higher efficiency

By using our software products you have the possibility to work with all the data stored anywhere within your enterprise. Even old data, possibly no longer accessible due to migration to new hard- and/or software, may now be used and do not have to be recreated with great effort.

Distinct saving of time

The products of HighQSoft GmbH (or LLC) are based on standards and make development of often very time-consuming and risky individual solutions unnecessary.

Reduced costs

Due to many years of experience and close co-operation with our customers, we achieve safe results within a short time. These results are "on the point" and assure reduced costs in the future.

1.1 Introduction Athos Runtime System

The Athos Runtime System is the backbone and the working engine of all Athos based products. The runtime system provides basic ASAM ODS functionality, which is the same on all supported operating systems (single source). The Athos Runtime System is written in plain ANSI-C for maximum portability. The provided functionality is utilized within Athos-based client and server applications.

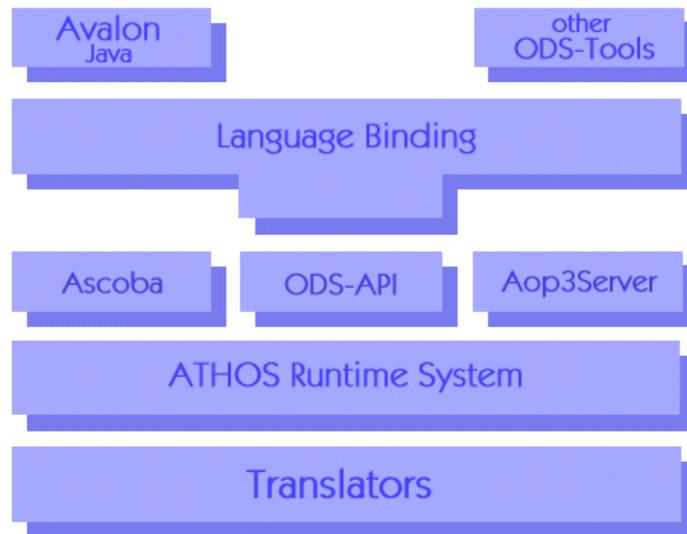


Figure 1.1: The Athos Runtime System

1.2 Introduction Ascoba

The ASAM-ODS Copy and Backup utility (Ascoba) is a standalone application based on the Athos Runtime System. The source code of this application is the same on all supported operating systems (single source). Ascoba is written in plain ANSI-C for maximum portability.

For a detailed description how to use Ascoba please refer to the Ascoba User's Guide.

Chapter 2

Requirements

No special software products are required. About 50 MB of free disk space is needed for a normal Athos installation. Volatile memory consumption of the Athos Runtime System depends on the application data volume plus approx. 1MB for the runtime system code. The required disk space for compilation and linking of the complete Athos System is 400 MB for all source, temporary and output files.

2.1 Requirements Athos Runtime System

There are no special requirements for the Athos Runtime System.

If the Athos Runtime System should run in multithreaded mode, only Microsoft Windows NT, Microsoft Windows 2000, Microsoft Windows XP, Microsoft Windows 2003 and Linux are supported.

2.2 Requirements Ascoba

No special software products besides the Athos Runtime System and the appropriate translators (drivers) are required. The disk space and volatile memory requirements of Ascoba do not add a significant amount to the Athos Runtime System (appr. 100 kByte only).



Chapter 3

Installation

The installation of the Athos Toolkit depends on the installation of the used components. The installation of the Athos Runtime System is required before the other components can be installed.

3.1 Installation Athos Runtime System

3.1.1 Win32

Normally the Athos Runtime System and the corresponding products are delivered with an installer, follow the directives of the installer.

However when the installer doesn't work, you can do the installation manually.

Copy the directory `athos` from the CD to your hard drive. Then go into the directory `athos` on your hard drive and execute the following command:

```
setupathos.bat 'drive and directory'\athos
```

This command will extend the path with the directory `athos\bin\win32`. The environment variable `ATHOS_ROOT` will be set. An entry in the registry for the eventlog will be added. The Windows registry key "HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Eventlog\\Application\\Athos" is added.

3.1.2 Unix

Unpack the `asamtools_<unix>_bin_x-xx` from the respective Unix directory of the ASAMTools CD. Set the environment variable `ATHOS_ROOT` and extend the `PATH` with `bin/unix` directory.

3.2 Installation Ascoba

The installation of Ascoba is an integral part of the Athos Runtime System installation. Due to the compact size of this application we decided not to set up a separate installation procedure. All required components are available when the Athos Runtime System has been installed. This is valid for all supported operating systems.



Chapter 4

Configuration

The configuration of the components of the Athos toolkit is generally done by setting environment variables and usage of an INI-File. Before the components are configured, the configuration of the Athos Runtime System must be done first. See: **Configuration Athos Runtime System**(p. 7).

4.1 Configuration Athos Runtime System

The Athos Runtime System is highly configurable and adaptable for a multitude of different requirements. The configuration may be done via environment variables and via definitions in initialization files. For most cases the built-in defaults of the Athos Runtime System will be sufficient. However, for special cases it may be necessary to configure some options for your requirements.

The environment variable `ATHOS_ROOT` is used to define the root directory of the Athos system. If this environment variable is not defined, the definition of `ATHOS_ROOT` in the INI-File is used as default. See: **Athos Runtime System Configuration variables**(p. 33).

The name of the INI-File or the name of the environment variable containing the INI-File name may be passed to the Athos Runtime System at time of initialization. This allows Athos-based applications to specify their own application initialization filename environment variable (e.g. `MYAPP_INI` instead of `ATHOS_INI`) to avoid collisions with other applications environment variables.

If no `ATHOS_ROOT` is defined, no INI-File name and no environment variable containing an INI-File name can be found, the Athos Runtime System tries to open the file `athos.ini` in the current working directory as default. If this also fails, a corresponding message is written to the Event Log on Win32 or the default log file `ATHOS_ROOT/log/asam_err.log`. If the log directory can not be located (e.g. because of missing `ATHOS_ROOT` definition) the log file `asam_err.log` is written to the current working directory. If the log file cannot be opened for any reason, the Athos messages are lost.

The table in this document shows all supported configuration variables including their names, descriptions, default values and source. The source of a configuration variable may be the system environment or the Athos INI-File. The global keyword denotes variables that may be defined in the global section of the Athos INI-File. The global section in the INI-File is marked by the string `[ATHOS]`.

The configuration variables of the Athos Runtime System are given in **Athos Runtime System Configuration variables**(p. 33).

AthosConfig is a tool which helps you to edit the INI-File. You can start the tool with the following

command:

```
java -jar\AthosConfig.jar
```

Note:

The tool will reorganize the INI-File.

4.2 Configuration of the Athos Runtime System on Linux

The Athos Runtime System switch automatically into multithreaded mode on Windows system. On Linux system there is no automatic switch into the multithreaded mode, so the configuration of the Athos Runtime System must explicit force the multithreaded mode.

The global INI-File variable `MULTITHREADABLE = yes` must be used to force the multithreaded mode and do the required initialization. The Athos Runtime System will probably crashes when multithreaded access is done without the initialization.

4.3 Configuration of the security in the Athos Runtime System

There are two configuration variables available for the security configuration. The two variables, `IGNORE_SECURITY` and `NOSECURITYACTIVE`, have the same meaning, but `IGNORE_SECURITY` tells the 'server' (AVALON or Aop3Server) to ignore the security and `NOSECURITYACTIVE` tells the Athos Runtime System not to check the objects added from the translators.

Disabling security is done by setting both variables to `YES` in the INI-File. Normally a server is available for the security, so the variable `NOSECURITYACTIVE = YES` will not change and the security will be activated by comment out of the variable `IGNORE_SECURITY`.

4.4 Configuration of the Windows event viewer

The Windows event viewer is able to show a textual explanation of the error message. The event viewer need a file with the text of the messages. This file is registered during setup or installation of the Athos Runtime System. However when the messages don't occur you can register athos at the event viewer also afterwards with the following commands executed in the Windows console.

```
cd %ATHOS_ROOT%  
bin\Win32\instsrc" Athos "%ATHOS_ROOT%\bin\win32\athos.dll" 2
```

This command is part of the batch file `setupathos.bat`

4.5 Configuration Ascoba

Ascoba is highly configurable and adaptable to a multitude of different requirements. The configuration may be done via an initialization file as described in the Athos Runtime System Technical Reference Sheet.

The table in this document shows all supported configuration variables including their names, descriptions, default values and source. The source of a configuration is the Ascoba INI-File. All



Athos Runtime System configuration variables are also considered since this server implementation is written on top of the Athos Runtime System.

Set the environment variable ASCOBA_INI and edit the file where this variable points to (as shown in the Ascoba Initialization File Example in this document).



Chapter 5

Initialization File Format

The Syntax of the INI-File is for all components of the Athos Toolkit identical. The configuration variables are given for each component and should be combined in one section.

5.1 Initialization File Format Athos Runtime System

An example of an INI-File is given below, this example will only show the syntax of the INI-File, the services given in this example are not complete and they might not work with the configuration given in this example.

```
[ATHOS] ; Global Athos Runtime System definitions.
ATHOS_ROOT = "/users/xenon1/conv/athos" ; Fallback if not in environment.
BASE_MODEL_URL = "///$(ATHOS_ROOT)/etc/ao_base.htm"

; Debug Level.
; 0 No debug output at all.
; 1 Entry calls and error messages.
; 2 As level 1 plus "in" and "out" parameters.
; 3 As level 2 plus all further information.
DEBUGLEVEL = 3

; Definition of a service.
[SERVICE "Test"]
DESCRIPTION = "ODBC access to a standard ASAM ODS relational database."
TYPE = "ASAM-ODS"
DRIVER = aod1
DIRECTORY = "///$(ATHOS_ROOT)/bin/$(OSTYPE)/"
ENVNAME = Test
DSN_NAME = LocalServer
DATABASE = ASAM
DB_USERNAME = sa
DB_PASSWORD =
WILDONE = _
WILDALL = %
DEPENDS_ON = DEP_LIST

; List with dependencies.
[LIST "DEP_LIST"]
portmap
MSSQLServer
SQLExecutive

; Definition of another service.
[SERVICE "Tire Testbed"]
```

```
DESCRIPTION = "Tire Testbed accessed via ASAM ODS 3"
DRIVER = avl3
DIRECTORY = "///$(ATHOS_ROOT)/bin/$(OSTYPE)/"
RPCNUMBER = 553652252
NODENAME = Jeannie
ENVNAME = TireTest
RPCTIMEOUT = 60
```

5.1.1 Athos Initialization File Syntax

The Athos Runtime System uses an INI-File for initialization. The INI-File may be different for each Athos-based client application. The client application and the Athos translators (drivers) both use the values of the INI-File. The INI-File has the following syntax conventions:

- Semicolon is the comment sign. The comment ends at the end of the line.
- Strings may optionally be enclosed in double quotes. If the double quotes are omitted, leading and trailing whitespaces are removed.
- German Umlauts (mutated vowels) and non-printable characters follow the ASAM Transport Format (ATF) conventions for maximum portability in heterogeneous environments.
- Only one entry per line is allowed.
- Variables may be constructed by using variables that are already defined. Substitutions are indicated by (similar to Unix make). Beware of recursive definitions. No respective checks are done in the actual code. Recursive substitutions will result in an infinite memory allocation loop.
- The first part of definitions marked by the keyword [ATHOS] are global and may be used by each service.
- Each service has its own section. A new service is defined by [SERVICE <servicename>].
- The name of the service must be unique within a configuration file.
- There are sections for lists. A section for list definitions is defined by [LIST <listname>].
- The entries in a list are only names, and not name value pairs such as a variable of a service sections.
- The value of a parameter can be a readonly value. You can define the readonly parameter by adding the string "readonly" to the parameter. E.g. DRIVER = "aod1 readonly". The value must be delimited by double quotes (").
- The value of a parameter can have another datatype as the default datatype DT_STRING. You can define the datatype of the parameter at the end of the value before the readonly attribute. E.g. SECURITY = "2 DT_LONG" or the read only variant SECURITY = "2 DT_LONG READONLY"
- The name of the variable is not case sensitive.

5.2 Ascoba Initialization File Example

```
[ATHOS] ; Global Athos Runtime System definitions.
ATHOS_ROOT = "/users/xenon1/conv/athos" ; Fallback if not in environment.
BASE_MODEL_URL = "///$(ATHOS_ROOT)/etc/ao_base.htm"

; Debug Level.
; 0 No debug output at all.
; 1 Entry calls and error messages.
; 2 As level 1 plus $inĀ and $outĀ parameters.
; 3 As level 2 plus all further information.
DEBUGLEVEL = 3

; Definition of a service.
[SERVICE "Test"]
DESCRIPTION = "ODBC access to a standard ASAM-ODS relational database."
TYPE = "ASAM-ODS"
DRIVER = aod1
DIRECTORY = "///$(ATHOS_ROOT)/bin/$(OSTYPE)/"
ENVNAME = Test
DSN_NAME = LocalServer
DATABASE = ASAM
DB_USERNAME = sa
DB_PASSWORD =
WILDONE = _
WILDALL = %

; Definition of another service.
[SERVICE "Tire Testbed"]
DESCRIPTION = "Tire Testbed accessed via ASAM ODS 3"
DRIVER = avl3
DIRECTORY = "///$(ATHOS_ROOT)/bin/$(OSTYPE)/"
RPCNUMBER = 553652252
NODENAME = Jeannie
ENVNAME = TireTest
RPCTIMEOUT = 60
```



Chapter 6

Usage

The usage of the component of the Athos Toolkit depends on the component. The usage of one component will have influence on the usage of the other components.

6.1 Usage Athos Runtime System

The Athos Runtime System is used always with the respective Athos Toolkit Component. No additional user interaction is required. Direct usage of the Athos Runtime System applies only to programmers who write their own translators (drivers). A separate Programmers Guide and appropriate training sessions are available for this special and sophisticated task.

6.2 Datatype of Id's in Athos Runtime System.

ASAM ODS has defined that the Id's of the application and instance elements are of the type `T_LONGLONG`, a 64 Bit integer. Until the version 3.3 in Athos all Id's were of the type `T_LONG`, a 32 Bit integer, there was a defined type `AO_Id` which was used for the Id.

Since the version 3.3 Athos have changed the type of the `AO_Id` to an `__int64` on Windows an 64 Bit integer. The `printf` functions and also the decaration of the Id could be `long` or `Int4` which will not metsch anymore.

Therefor the following definitions are made in Athos since the version 3.3.

AO_ApplElem, application element

The Id of the application element stays a 32 Bit Id of the type `Int4`. The prototype of the functions `AE_GetId` and `AE_SetId` are changed from `AO_Id` to `Int4`. We do not expect Id's of the application elements outside the 32 bit range.

AO_BaseElem, base element

The Id of the base element stays a 32 Bit Id of the type `AO_BE_Id`. Nothing is changed.

AO_ApplAttr, application attribute

The application attribute have only the Id of the unit, this Id is the Id of an instances element and is changed to an 64 Bit integer. The prototype of the functions still use the `AO_Id`. Although we use now the 64 Bit we don't expect that the range will be outside the 32 bit range.

AccessControlList

The Id's of the application elements are changed to `Int4`, the Id's of the instances element stays `AO_Id`. See also the structures `ACLEntry`, `InitialRightEntry`, `KeyEntry` will use the usergroup Id as an `AO_Id`. Although we use now the 64 Bit, we don't expect that the range will be outside the 32 bit range.

AO_InstAttr, instance attribute

The instance attribute have only the Id of the unit, this Id is the Id of an instances element and is changed to an 64 Bit integer. The prototype of the functions still use the `AO_Id`. Although we use now the 64 Bit we don't expect that the range will be outside the 32 bit range.

AO_InstElem, instance element

The Id of the instances element is of type `AO_Id`, this is a 64 Bit integer. The functions take care for the datatype of the Id baseattribute and the reference attributes. There are new functions added for handling the Id. The functions `IE_GetIdLow` and `IE_SetIdLow` handle only with the low part of the Id, these are equivalent with the functions `IE_GetId` and `IE_SetId` incase the type of `AO_Id` was 32 bit integer. The function `IE_GetIdString` returns the Id as a string.

AO_SubMat, submatrix

The type of Id and unique Id is an `AO_Id`, this is a 64 Bit integer. The functions `SM_GetIdLow`, `SM_GetUniqueIdLow`, `SM_SetIdLow` and `SM_SetUniqueIdLow` handle only with the low part of the Id, these are equivalent with the functions `SM_GetId`, `SM_GetUniqueId`, `SM_SetId` and `SM_SetUniqueId` incase the type of `AO_Id` was 32 bit integer.

AO_LocalColumn, localcolumn

The type of Id and unique Id is an `AO_Id`, this is a 64 Bit integer. The functions `LC_GetIdLow` and `LC_SetIdLow` handle only with the low part of the Id, these are equivalent with the functions `LC_GetId` and `LC_SetId` incase the type of `AO_Id` was 32 bit integer.

There are new helper functions to convert between the ASAM ODS type , the Athos type `AO_Id` and `Int4`

- `LongLongToAO_Id`, converts from `T_LONGLONG` to `AO_Id`.
- `AO_IdToLongLong`, converts from `AO_Id` to `T_LONGLONG`.
- `AO_IdToInt4`, converts from `AO_Id` to `Int4`, low part.
- `Int4ToAO_Id`, converts from `Int4` to `AO_Id`, low part.
- `AO_IdToString`, converts from `AO_Id` to `String`.
- `LongLongToString`, converts from `T_LONGLONG` to `String`.
- `StringToAO_Id`, converts from `String` to `AO_Id`.
- `StringToLongLong`, converts from `String` to `T_LONGLONG`.

6.3 Ascoba Manual

6.3.1 General Information

This manual should give the reader a short overview of the Ascoba software and it's features.



- **The Purpose of Ascoba**(p. 17), The Purpose of Ascoba, explains what Ascoba is and what it does.
- **The ini-files**(p. 18), The ini-files, should give a survey of the use of ini-files.
- **The Ascoba Syntax**(p. 18), The Ascoba Syntax, describes the syntax of the various functions.
- **Ascoba Examples**(p. 24), Examples, shows some examples how Ascoba works.
- **Known Problems and Restrictions**(p. 25), Known Problems and Restrictions.

For the purpose of clarity of the text, filenames are shown in italic letters; commands and programme examples are shown in the following font

`Courier`

6.3.2 The Purpose of Ascoba

With the development of the ASAM standard many people have in the meantime experienced the problem - when working with ASAM conform data - to transport the information from one database to any other, eventually on a different computer or even in a different company.

Generally speaking Ascoba is an import and export tool for ASAM conform data. The programme offers the possibility to export, import, delete, or list any ASAM conform data or parts thereof.

Dynamic driver linking at runtime is supported.

6.3.3 The Start of Ascoba

Ascoba has a variety of minimum system requirements depending on which computer it will be installed. The programme is available at the moment for Windows NT, HP-UX, VAX (under VMS 6.2 and UCX 4.1).

The commands given below are only valid for the VAX.

| | |
|-------------------|---|
| - ascoba.exe | is the executable file of Ascoba |
| - setupascoba.com | the last two lines define the logical name and symbol and is the absolute minimum requirement: <pre>\$ ascoba := '\$dsknam'['dirnam']ascoba.exe \$ define ASCOBA_INI 'dsknam'['dirnam']ascoba_demo.ini</pre> |
| - ascoba_demo.ini | holds the initial statements and definitions for Ascoba |

When you are ready to start Ascoba simply type

```
@setupascoba
```

.

6.3.4 The ini-files

For a proper and efficient use of Ascoba various adjustments have to be determined. This prevents that certain recurrent definitions such as e.g. RPC numbers, services etc. have to be specified again and again.

These adjustments are listed in an ini-file. The corresponding current ini-file has to be specified somewhere for Ascoba. This is made by defining an environment variable - here `ascoba_ini` (see picture below). On VAX machines the variable is defined with the file `setupascoba.com` (see chapter 3, (The Start of Ascoba)).

For the demo version this ini-file is called `ascoba_demo.ini`. The following shows an example of such an ini-file:

```
[ATHOS]                                ; Athos system definitions.
BASE_MODEL_URL   = ao_base.htm
MAX_RUN_INST     = 10
[SERVICE "ASAM ODS Protocol Level Version 3"]
RPCNUMBER       = 553652250
NODENAME        = Atlas
ENVNAME         = Your Choice
[SERVICE "ASAM Transport Format (ATF)"]
FILENAME        = ascoba.atf
```

The line "`BASE_MODEL_URL ...`" defines the path to the file "`ao_base.htm`" which contains the Athos system definitions.

When defining the service name please note that the names have to be unique. The attributes of the last service in the ini-file will overwrite the attributes of the previous entry.

The node name and RPC number has to be changed according to your environment. The environment name "`ENVNAME`" is optional and will be overwritten when the environment is successfully opened.

A special Ascoba definition in the ini-file is

```
MAX_RUN_INST=10;
```

This value gives the maximum number of selected instances for each run and is checked before the references are loaded. Please note: It has only influence when the command is started with the "with reference" - clause. Depending on the structure of the server data it can take a long time to load the references:

`ascoba select "Versuch" where {"*Id" LT "100"} with reference using "wk.atf"` This would cause that for the 100 instances the references are loaded. With the given variable `MAX_RUN_INST` the command is split into 10 different commands. The performance difference between the total command and the split command can be enormous. If the command is split the ATF-filename is automatically generated for a unique filename, the new filename will get a continuous number append to the filename.

```
e.g. wk.atf ->wk.atf.001
wk.atf.002
wk.atf.003 etc.
```

6.3.5 The Ascoba Syntax

The functions used in Ascoba have to follow a certain syntax. This chapter should give the user an overview which syntax has to be adhered to.



These paragraphs describe the currently valid commands and their syntax.

```
ascoba VERBOSE FUNCTION "Application element" WHERE {Condition} WITH REFERENCE
FROM "SERVICE1" TO "SERVICE2" USING [Filename | Modifier]
AT "Instance element" IGNORE
```

The verbose keyword is an optional keyword and must not necessarily be included in each command. In case it is included the processing information is shown when executing the command.

FUNCTIONS

select selects data from first service of ini-file to second service

insert inserts data from second service of ini-file to first service

modify modify an attribute of an instance element of first service

delete delete data information from first service

list list data information from first service

help shows help

Select Selects the elements from the first service of the ini-file and save the elements in the second service. The first and second service are the order of the services in the INI-file and can be overwritten by the FROM and TO clause. The FROM service is the source service the TO service is the target service (ATF). The application and instance elements are saved. If there is only one service specified in the ini-file the Select command cannot be used.

The name of the atf-file from the second service will be overwritten with the filename specified in the USING clause.

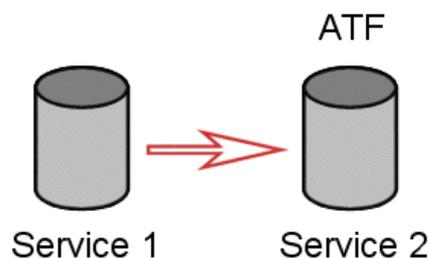


Figure 6.1: Select

There are some INI-file variables which can be defined at the second service to modify the number of selected application elements and instances. An INI-file variable (ASCOBA_COMPLETE_MODEL) forces ascoba to append all the application elements from the first service to the list with selected objects, which will be stored in the second service. Another INI-file variable (ASCOBA_COPY_ALL_INSTANCES_OF) forces ascoba to append the application element and all the instances of the application element to the list with selected objects. This last INI-file variable overwrites the select of the instances in the select clause. When a select is given for the application element this last INI-file variable select all instances of that element.

Insert Inserts the selected instance elements from the second service into the first service at the specified application element. The first and second service are the two services of the INI-file and can be overwritten by the FROM and TO clause. The FROM service is the source service (ATF) the TO service is the target service. The name of the atf-file from the second service will be overwritten with the filename specified in the using clause. If there is only one service specified in the ini-file the Insert command cannot be used. The Id's of the instances will be given new at the TO service. The references will be updated to the Id's of the TO service. The referenced instances will be search by the ASAM Path. ASCOBA first checks if the instance (ASAM Path) exist already in the TO service before the instance will be inserted.

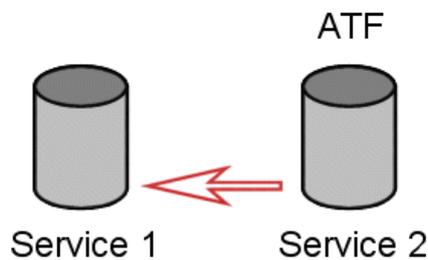


Figure 6.2: Insert

Modify Modifies an attribute of the selected instance element of the first service. The first service is the first service in the INI-File and can be overwritten with the FROM clause. The name of the attribute and the new value are specified in the using clause.

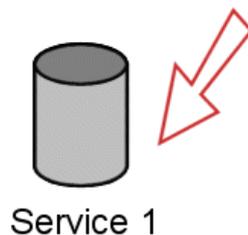


Figure 6.3: Modify

Delete Deletes the selected instance elements from the first service. The name of the atf-file from the first service will be overwritten with the filename specified in the USING clause. The first service is the first service in the INI-file and can be overwritten by the FROM clause.

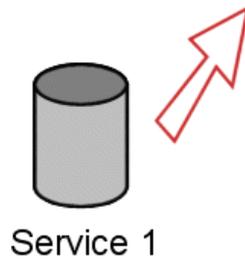


Figure 6.4: Delete

List Lists the names of the selected application elements and the selected instance element to the standard output from the first service. The first service is the first service in the INI-file and can be overwritten by the FROM clause. In case there is no "WHERE"-clause specified only the application elements are listed.

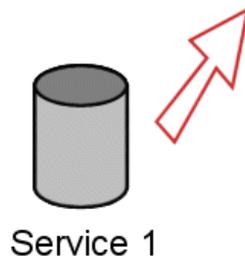


Figure 6.5: List

Help Shows a short help information on Ascoba.

6.3.6 Application Element

"Application element" The name of an application element is needed. Wildcard characters may be used to specify the name (see description WILDCARD).

{CONDITION} Ascoba can use a variety of conditions and condition operators which are listed below. Conditions always have to be parenthized with curved brackets. A condition with a condition operator would have to look like:

```
{"Attribute name" CONDITION OPERATOR "Attribute value"}
```

A condition with condition and logical operator would have to look like

```
{"Attribute name" CONDITION OPERATOR "Attribute value" LOGICAL OPERATOR
 "Attribute name" CONDITION OPERATOR "Attribute value"}
CONDITION OPERATOR = EQ equal
                    NE not equal
                    LT less than
                    GT greater than
                    LE less or equal
```

```

                                GE greater or equal
LOGICAL OPERATION = AND
                                OR
                                NOT
                                XOR exclusive or

```

"Attribute name" Name of the application attribute. The name can be specified with wildcard character (see description WILDCARD). If there is no application attribute with the specified name, ASCOBA try to find an application attribute with a base attribute which name corresponds the given attribute name. The search for the base attribute name is case blind, but no wildcards are allowed.

"Attribute value" Value of the attribute. The value can be specified with wildcard character (see description WILDCARD).

WILDCARD Ascoba offers the possibility to use wildcard characters with application elements and attribute values. When using wildcard characters the name or value has to be put in doublequotes. It is recommended to always use the doublequotes - although only necessary with wildcard characters - thus bypassing a typical syntax error. There are two different kinds of 'wildcarding'.

```

WILDCARD = * to substitute several characters
WILDCARD_ONE = ? to substitute just one character

```

Filename The name of the atf-file. Using the functions select or insert the filename at the second service listed in the ini-file is changed. With the other functions the name of the first service is changed. The services are defined in the ini-file. With the USING clause it is allowed to use wildcard characters, e.g. "wk.atf.*" (see description WILDCARD). When using wildcards all matching filenames will be handled in separate commands of Ascoba. These commands will be generated automatically.

Modifier The name of an attribute and its new value (attribute="value"). Using the function modify the attribute of the selected instance is set to the new value.

WITH REFERENCE using the select or list function this means that the elements referenced by and referring to the application or instance elements are also included.

When using the function insert it means all the instance elements referring to the selected instance element are also inserted. When using the function delete it means that it is the server's obligation to delete the references.



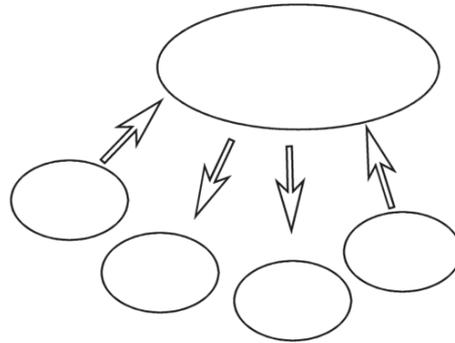


Figure 6.6: With reference

6.3.7 Instance Element

Instance element

The name of an instance element is needed. Wildcard characters are not allowed.

AT

means the father instance element of the first service specified by an ASAM-path at which the inserted instance is connected.

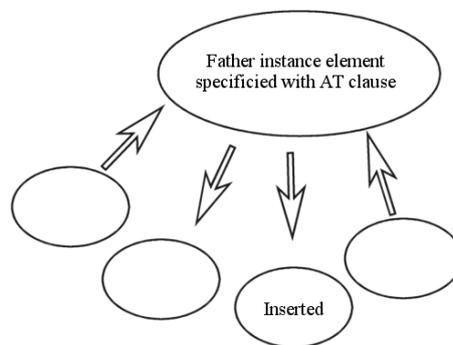


Figure 6.7: At clause

6.3.8 Mandatory clauses

FROM

This clause is mandatory. The defined service name is the source service. In case no service is given see **The Ascoba Syntax**(p. 18), Functions, which explains which services are opened.

TO

This clause is mandatory. The defined service name is the target service. In case no service is given see **The Ascoba Syntax**(p. 18), Functions, which explains which services are opened.

IGNORE

This clause is mandatory and only use with the function 'insert' (see **The Ascoba Syntax**(p. 18)). ASCOBA will stop the operation if an instance element exist already in the target service. If this clause is set ASCOBA will continue the operation with the next instance and report only a messages to the user in VERBOSE mode (**The Ascoba Syntax**(p. 18)).

6.3.9 Ascoba Examples

The following examples show various Ascoba commands with their correct syntax and a description of what they should do. As previously pointed out in this manual these examples use for the adjustments the file athos.ini.

6.3.10 Creating an atf-file using a condition operator

Create an atf-file with the name ascoba.atf. The instance from the application element Messungen with an attribute named *Id and a value equal 100 will be written to the atf-file. The references from or to the selected application and instance element are also stored in the atf-file. ascoba select "Messungen" where {"*Id" EQ "100"} with reference using ascoba.atf

6.3.11 Creating an atf-file using a condition and a logical operator

Create an atf-file with the name ascoba.atf. The instance from the application element Messungen with an attribute named *Id and a value greater than 100 and less than 110 will be written to the atf-file. ascoba select "Messungen" where {"*Id" GT "100" and "*Id" LT "110"} using ascoba.atf

6.3.12 List application elements

List all application elements with the attributes from the service. ascoba list "**"

6.3.13 List instances which fulfill a certain condition

List all instances from the application element Messungen with an attribute named *Id and a value greater than 100. ascoba list "Messungen" where "*Id" GT "100"

6.3.14 List instances which fulfill a certain condition using wildcard characters

List all instances from the application element Messungen with an attribute named *Name and a value equal E34*. ascoba list "Messungen" where "*Name" EQ "E34*"

6.3.15 Delete instances which fulfill a certain condition

Delete all instances from the application element Messungen with an attribute named *Id and a value greater than 100. The references to the instances are also deleted, but not the referencing

instances. ascoba delete "Messungen" where "*Id" GT "100"

6.3.16 Delete instances without a reference

Delete all instances from the application element Messungsgrößen without a reference to a Messung. ascoba delete "Messungsgr*" where "Messung" EQ 0

6.3.17 Copy instances from one service to another service

Copy all instances of "Versuch" with "ID" greater than 100 from service "Rad" to "ATF-Target". In case there are more instances of "Versuch" than in the variable MAX_RUN_INST defined the atf-files ascoba.atf.001, ascoba.atf.002 etc. will be created automatically. ascoba select "Versuch" where "ID" GT 100 with reference from "Rad" to "ATF-Target" using ascoba.atf

6.3.18 Modify an instance attribute

Set the attribute "Status" of the Instance of Test with Id = 100 to "finished". ascoba modify "Test" where Id EQ 100 from "Rad" using Status="finished"

6.3.19 Insert all instances from an ATF-File in a service

Insert all the instances given in an ATF-File into a service. The service of the ATF-File is called 'ATF-Source', the target service is called 'Motor'. The ATF-File is called 'Motor1234.ATF'

```
ascoba insert "*" where {"*" EQ "*"} from "ATF-Source" to Motor using Motor1234.ATF
```

6.3.20 Known Problems and Restrictions

- The AVL protocol level server version 2 does not support the datatype 'Date'. Therefore, date and time based selections are not supported for this server type.
- The AVL protocol level server version 3 reports datatype 'String' instead of 'Date'. Therefore, date and time based selections are not supported for this server type.
- Ascoba uses only one term of Select-conditions for server side selects. Therefore, e.g. range checking is not yet done completely in the server.



Chapter 7

Error reporting and Logging

The error reporting in the Athos Toolkit is a fixed program. With configuration variables you can set the level of logging in the Athos Toolkit. The higher the level the more will be logged to the logging device, this logging device is normally standard output.

7.1 Error reporting Athos Runtime System

The error reporting on Win32 and Unix systems are different. On Win32 systems the event viewer of the system will be used, this event viewer is not available on the other operating systems, they use a file for the error reporting

7.1.1 Error reporting on Win32 system

The Athos Toolkit implements its own event log system. The Athos event viewer uses the Windows NT event viewer **How to use the event log**(p. 30) on Win32 systems by default. On all other operating systems the Athos event logger writes the messages into a file. See also `ERR_DEVICE` in the configuration variable description of **Athos Runtime System Configuration variables**(p. 33).

Messages are written in the Application Protocol of the Windows NT event viewer and can be browsed with the default Windows NT event viewer. For Windows systems without an event viewer (Windows 95/98) refer to the entry `ERR_DEVICE` in the configuration variable description `ERR_DEVICE`.

On all other operating systems the messages are written to the file `asam_err.log`. At startup the file `asam_err.log` will be opened. If the file exists it is copied to `asam_err.bak`, the existing file `asam_err.bak` will be deleted. If a server and client are running on the same system, the last started program deletes the error output file of the earlier started programs. Use the environment variable `ERR_PATH` to set the path of the error output device. For more details refer to the entry `ERR_PATH` in the configuration variable description **Athos Runtime System Configuration variables**(p. 33).

The first message of the Athos Toolkit is the message with the ID 1000. (`AO_CONNECT_-EVENTLOG`) which will be written as soon as the event viewer is activated. The last message is the message with the ID 1001 (`AO_CLOSE_EVENTLOG`), which will be automatically written before the event viewer is closed.

If the maximum number of identical error messages is detected, the error messages are suppressed and not reported. The start and end of suppression are reported with the messages with ID 1002

(AO_SUPPRESS_REPORT) and ID 1003 (AO_REPORT_ALL_EVENT). The total number of and the last identical messages are reported at the end.

The usages of the event viewer is explained in **How to use the event log**(p. 30).

The DEBUGLEVEL defines which kinds of events are reported to event viewer, this protects the event log-file from getting filled to fast, so the events of other applications are not found anymore. The events which are ERROR will always be reported. The events which are WARNING will be reported when the DEBUGLEVEL is above the definition DBG_ERROR_WARNING_LEVEL. The events which are INFORMATIONAL will be reported when the DEBUGLEVEL is above the definition DBG_ERROR_INFO_LEVEL. The events are always reported in the log-file.

You can configure the Athos Runtime System to write the events also in the Athos-logging device, see logging_kerenl. The configuration variable LOG_EVENTS sets which type of events will be reported in the logging system. This has the advantage that the direct relation between the events and the logging messages will be available in the log device. The INI-File variable LOG_EVENTS is a service variable so the last open service defines if the event is logged in the Athos-logging system.

On Win32 system using the Eventviewer has the advantage, in case the eventviewer is configured correctly **Configuration of the Windows event viewer**(p. 8), the messages are explained with clear text and the system configuration guarantee the size of the eventlog don't exceed. However writing to the windows system event log is slower as writing to the file asam_err.log. Also when different athos applications runs at the same time it is hard to find out, in the event viewer, which messages belongs to which application. In such a case use the configuration variables ERR_DEVICE and ERR_PATH to configure for each application an own file asam_err.log in a separate directory.

7.1.2 Error reporting on none Win32 system

On none Win32 systems or when the Environment variable ERR_DEVICE=FILE is set, the file asam_err.log will be created. All lines in this file with the error messages have the same format. The field of the line are comma-separated.

The fields are:

- The severity, **I** means information, **W** means warning and **E** means error.
- Date and time.
- The name of the program.
- The error number.
- The name of the computer.
- The name of the user.
- The version of the program.
- The identification of the source location where the event is reported. The source file, the revision of the source file and the line in the source file.
- The parameter of the event. This parameter fits at the %4 place of the error message (**Athos Error Messages**(p. 66)).

The following line is an example, split just before the parameter.

```
I,"2003-07-21 16:44:26","OdsApi",00905,"ODIN","karst","V3.0", "ac_loadinitfile.c $Revision: 1.15 $ 265",
"Inifile "D:\athos.ini"."
```



7.1.3 Control the size of the files.

The files, log-file or error-file can grow fast. Depending of the usage of the software, running as server or client development the size of the files must be controlled. Next to the `DEBUGLEVEL` the 2 other main core variables used to control the behavior of the error-logging-process are `LOG_MAX_LINES` and `ERR_LMAX_LINES`. `LOG_MAX_LINES` controls the size of the logfile. Setting this value to 0 forces new log entries to append at the end of the logfile.

BEWARE: If not handled properly, this can lead to a very large logfile. If set to a value > 0 , the logfile will be closed when reaching the defined amount of lines and a new logfile will be created.

`ERR_MAX_LINES` behaves similar to the `LOG_MAX_LINES`. When set to 0, the errorfile will grow until deleted or moved. Otherwise the errorfile will be closed at the specified amount of lines and a successor file will be created.

7.1.4 Logging

Normally the Athos Runtime System does not report any messages except the error, warning and information messages into the eventlog (**Error reporting on Win32 system**(p.27)). However you can force the Athos Runtime System to report messages to the standard output or for some applications redirect the standard output into a file. The number and kind of messages of the Athos Runtime System depends on the configuration variable `DEBUGLEVEL`.

If there is no file opened by the application the 'standard output' will be used.

The values of the `DEBUGLEVEL` is documented in the online documentation "ODS definition" - "Modules" - "The debuglevel definitions" and in the appendix of this document.

An example of the log file content is given below

```
20080507 17:09:56 diff: 15 Thread 9b0 ApplicationElement_GetName()
20080507 17:09:56 diff: 0 Thread 9b0 Application Element: CommitTest (1AAEC950)
20080507 17:09:56 diff: 0 Thread 9b0 Return ApplicationElement_GetName(): CommitTest
20080507 17:09:56 diff: 16 Thread ac0 ApplicationElement_GetRelatedElementsByRelationship()
20080507 17:09:56 diff: 0 Thread ac0 Application Element: CommitTest (1AAEC950)
20080507 17:09:56 diff: 0 Thread ac0 relShip: 0
20080507 17:09:56 diff: 0 Thread ac0 Return ApplicationElement_GetRelatedElementsByRelationship():
20080507 17:09:56 diff: 0 Thread ac0 Number of objects in list: 0
```

- The date E.g. 20080507.
- The time E.g 17:09:56.
- The number following the term 'diff' is the time difference to the previous line in milliseconds. In this example it took 16 milliseconds after the return of the method `ApplicationElement_GetName` until the new request `ApplicationElement_GetRelatedElementsByRelationship` was recieved at the server.
- The number following the term "Thread" is the thread Id in the server, to synchronize the messages of each thread or request.
- The message is given E.g. '`ApplicationElement_GetName()`' or '`Return ApplicationElement_GetName(): CommitTest`' which logs the start and return of the method `ApplicationElement_GetName()`. The lines following the start of a method are normally the parameters of the method, in this example '`Application Element: CommitTest (1AAEC950)`' which shows it is an application element with the name "CommitTest" and an internal memory adres of 1AAEC950. The Oracle SQL Commands and the file access is also logged as messages.

7.2 How to use the event log

The Athos event logger uses the Windows NT event logger on Win32 systems by default. The Windows event viewer can be found in the 'Manage'-tab of the 'My Computer'-icon (context-menu). The Windows event viewer with a detailed message display is shown below:

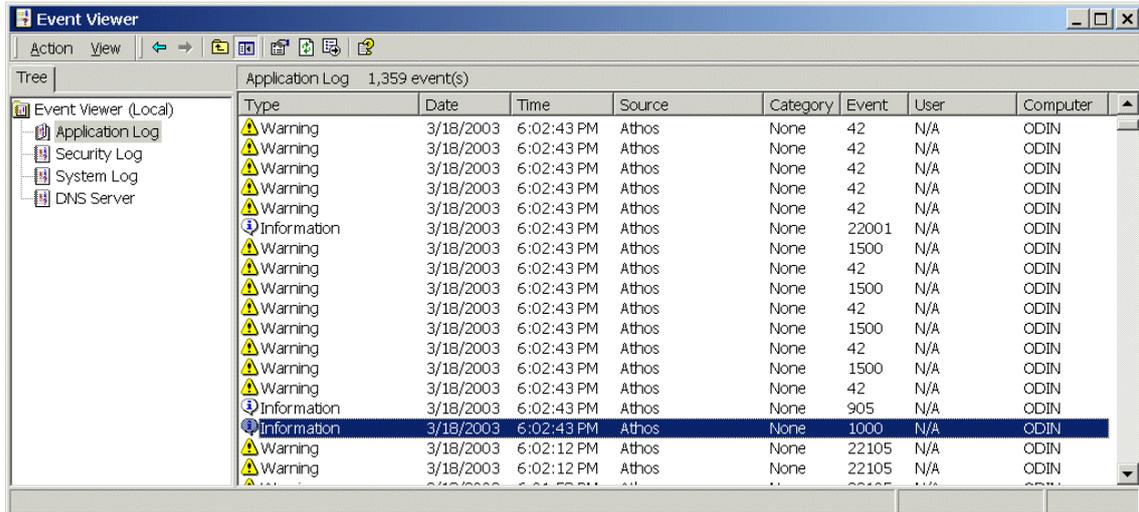


Figure 7.1: Windows Event viewer

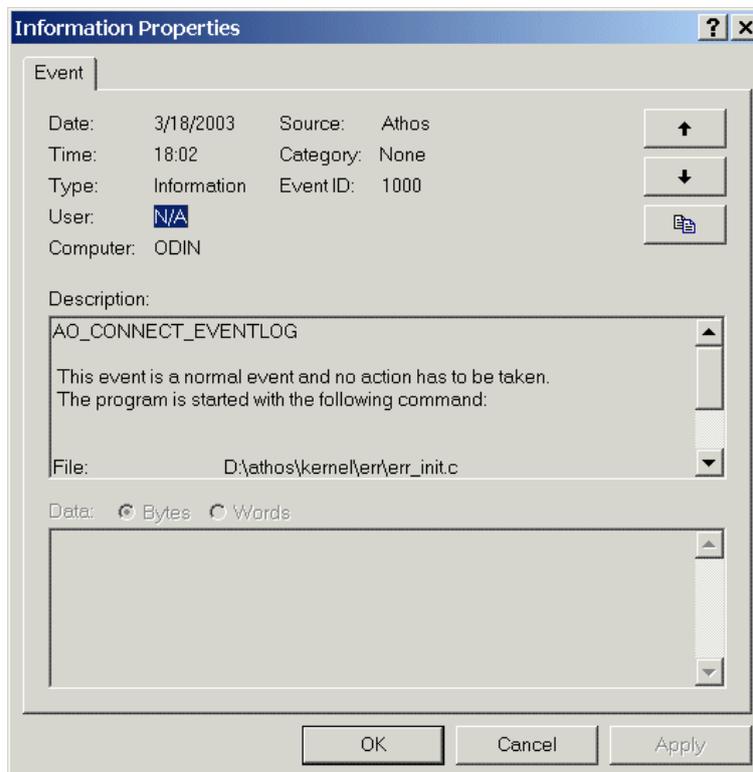


Figure 7.2: Detail of eventviewer

To analyze the Athos behavior it is very important for HighQSoft to receive the event log with the interesting logs. If an error can be reproduced, please clear the event log, reproduce the error, save the event log in a file (*.evt) and send the event log to HighQSoft. The way how to clear and save the event log is shown below.

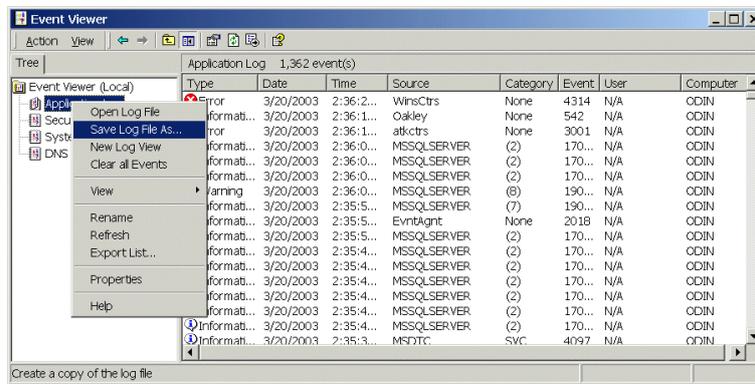


Figure 7.3: Eventviewer save

Using the event logger in the default configuration will sooner or later result in the following message:

The Application Log File is full.

This message indicates that the application log-file is full and no more messages can be stored. It has no consequences for the Athos functionality, but tracking down errors may be very complicated or even impossible without this information. Change the Log Settings of the application protocol and the newest messages will always be stored. A recommended log setting is shown below:

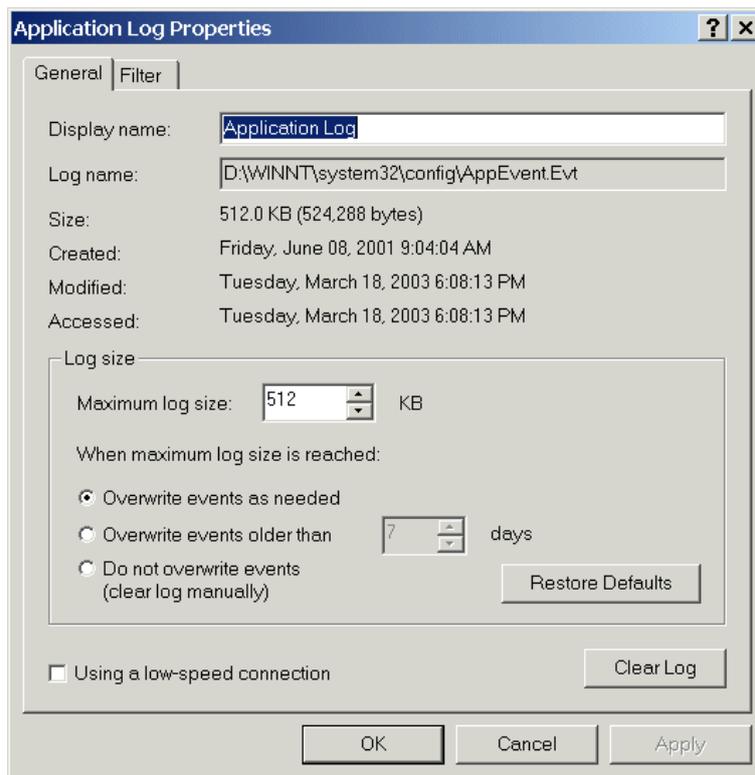


Figure 7.4: Eventviewer protocol properties

7.3 LogViewer

On none windows systemer there is no event log and the event viewer can not be used to look at the event. The Athos Runtime System writes the event normally in the directory \$ATHOS_ROOT/log, if the directory not exist in the current directory.

LogViewer is a tool which help you to examine the log files. The tool is started with the following command

```
java -jar jar/LogViewer.jar
```

The tool is able to show the file `asam_err.log` and the normal log-file.

7.4 Error reporting and logging Ascoba

Ascoba used the Athos Runtime System, so the error reporting and logging of the Athos Runtime System is used. For the logging there is an additional global INI-Variable to set the LOG-File for Ascoba. The INI-File variable `ASCOBA_LOGFILE` force ascoba to open the Log-File. For more details refer to the entry `ASCOBA_LOGFILE` in the configuration variable description **Ascoba Configuration variables**(p. 42).

Chapter 8

Configuration Variables

Configuration variables

8.1 Athos Runtime System Configuration variables

ATHOS_CHARACTERSET

An environment variable which defined the character set used in ATHOS. Only 8-bit character sets are supported. The character set must match with the character set of the storage (Oracle character set). The character set must be supported by iconv. The names of the character set must match the names of the character set supported by iconv.

| | |
|-----------------|------------|
| Default: | ISO-8859-1 |
| Source: | INI-File |

ATHOS_DELETE_THREAD_COUNTER

The current counter value of the delete Thread. Each time the delete thread runs, the counter is increased. The delete thread cleans the object to delete from the Athos Runtime System. This variable is a **READONLY** variable.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

ATHOS_NUMBER_OF_OBJECTS_TO_DELETE

The number of objects currently waiting to be deleted from the memory of the ATHOS Runtime System. This number is only an indication whether the ATHOS Runtime System is able to cleanup the internal memory. The number of objects are the objects used in the ATHOS Runtime System but not the number of objects to delete from the storage. This variable is a **READONLY** variable.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

ATHOS_ROOT

The root directory of the Athos System. If **ATHOS_ROOT** is not an environment variable, the entry in the INI-File is used. The name of the INI-File can be passed to the Athos Runtime System at the time of creation. The **ATHOS_ROOT** definition in the INI-File is used as a fallback in case the environment variable is not defined.

| | |
|-----------------|---------------------------------|
| Default: | No default |
| Source: | Environment or INI-File, global |

ATHOS_VERSION

The version of the ATHOS Runtime system. This variable is a READONLY variable.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

BASE_MODEL_URL

The URL where the ASAM ODS base model definition of the Athos Runtime System is located. The flexible design pattern of Athos allows that the internal object engine parameters are provided by a configuration file. The base model has been designed as an HTML-File. This allows easy navigation through the defined objects via any HTML browser. The object engine disregards the HTML tags. This file is intended to be modified by the developers only. Modifications in this file should be done only with great care and detailed knowledge about the Athos object engine.

| | |
|-----------------|---|
| Default: | file:///\$(ATHOS_ROOT)/etc/ao_-base50.htm |
| Source: | INI-File, global |

BIN_EXT

Extension of the binary (component) files.

This variable is checked every put of an instance element of type AoMeasurement, so this variable can be changed during runtime.

| | |
|-----------------|----------|
| Default: | BTF |
| Source: | INI-File |

BIN_PATH

Path of the binary (component) files.

The directories for the binary files must be created externally. This driver does not create this directory. If the directory not exist the driver is not able to connect to the storage and no user will get access to the server. The system user which runs the server need read, write and execute rights for this directory.

This variable is checked every put of an instance element of type AoMeasurement, so this variable can be changed during runtime.

The default is the current directory. **This variable is only used when the FILE_MODE is ABSOLUTE** use the For compatabillity when BIN_PATH is found the FILE_MODE will be set to ABSOLUTE and the FILE_NOTATION is set to URL, when these variables are not set. When this variable is not given the FILE_ROOT is used for the absolute files.

| | |
|-----------------|----------|
| Default: | |
| Source: | INI-File |

BIN_SUBDIR

Subdirectory of the path of the binary files.

This string can be a 'pattern', the pattern will be used as date specification. The following date specification is supported, 'YYYY' = Year, 2 or 4 characters required. 'MM' = Month, 2 characters are required. 'DD' = Day, 2 characters are required. 'HH' = Hour, 2 characters are required. 'WW' = Week of the year, 2 characters are required. You can put any other character in this string except the directory separator-character or other not allowed director name character defined by your system. Eg. AYYYYBWW (A2004B05) will use a differnt subdirectory for each week of the year. When the directory doesn't exist, the directory will be created. The created directory will have all rights on UNIX systems, umask can be used to reduce the rights of the directory, the system user which runs the server need read, write and execute rights for the directory.

This variable is checked every put of an instance element of type AoMeasurement, so this variable can be changed during runtime.

The default is no subdirectory write to the directory given at BIN_PATH. This works only when the BIN_PATH or FILE_ROOT is given.

| | |
|-----------------|----------|
| Default: | |
| Source: | INI-File |

CHECK_ID_ALWAYS

This variable tells the Athos Runtime System always to check the ID of the instance elements, because the ID of the datastorage is not unique. The check will reduce the performance. If this variable is set to YES the check will be performed for every new added instance element.

| | |
|-----------------|----------|
| Default: | No |
| Source: | INI-File |

CHECKDATEFORMAT

Activate the check of the date format of the input parameter. When the check is activated the server checks the date format during the input otherwise the date format is checked at the commit transaction by the database engine.

| | |
|-----------------|----------|
| Default: | NO |
| Source: | INI-File |

DATABASE

Name of the database in the MSQL server. Do not set this variable for Oracle based systems, it will cause to an error.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

DB_PASSWORD

User password for database logon.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

DB_SERVER

Name of the computer/server on which the database runs. This keyword is optional and only used in connection with the keyword ODBC_DRIVER.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

DB_USERNAME

User name for database logon.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

DEBUGLEVEL

The trace level of the server. The higher the level the more details are printed out - lowering the performance of the server.

0 = No output at all.

1 = Entry calls and error messages.

2 = Like 1 plus "in" and "out" parameter.

3 = Like 2 plus other available information.

4 = Like 3 plus all other available information. This level gives also search and compare information.

5 = Like 4 plus the error messages also in the log output device.

On Windows NT: The server or operating system will allocate memory for the file buffers. When the value is high a lot of messages will be produced and the requested memory will grow.

More details about the different levels is given in a separate section.

| | |
|-----------------|------------------|
| Default: | 0 |
| Source: | INI-File, global |

DIRECTORY

The directory where the executable of the driver is located. For system and installation independent directory definitions use c: and win32 in the directory name string.

| | |
|-----------------|----------------------------------|
| Default: | file:///\$(ATHOS_ROOT)/bin/win32 |
| Source: | INI-File |

DRIVER

The name of the Athos driver (translator) to be loaded for this service. The name of the executable will be built from the driver name and the executable extensions which depend on the operating system. After the driver has been loaded, a symbol with the same name is used to determine the driver entry points.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

DRIVER_FACTOR

The maximum factor of volatile memory the driver needs to load a localcolumn. This factor is used by the Athos Runtime System to estimate the amount of memory a driver needs to load a localcolumn.

| | |
|-----------------|----------|
| Default: | 1 |
| Source: | INI-File |

DSN_NAME

Name of the ODBC-Server or the name given at the ODBC-Manager as user- or system-DNS. Previous version this keyword was called <SERVER>, this keyword is still accepted.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

ERR_DEVICE

On the Windows NT operating systems the system environment variable ERR_DEVICE is used to redirect the Athos messages to the log file. If this variable is set to the string "FILE" the Athos messages are written to the file asam_err.log.

The default is that the messages are written to the event viewer.

| | |
|-----------------|-------------|
| Default: | |
| Source: | Environment |

ERR_MAX_LINES

The maximum number of lines of the error messages output file. If this value is 0 there is no maximum and all messages will be appended to the same file. This file can grow to a huge file. If the maximum number of lines is reached, the asam_err.log file will be copied to the asam_err.bak file and the file will be reopened. There will be always twice the number of error messages available.

| | |
|-----------------|------------------|
| Default: | 100000 |
| Source: | INI-File, global |

ERR_PATH

The directory path of the file asam_err.log. This variable is only used when the error messages are written to a file. If the Athos Runtime System is not able to write to the given directory, the file asam_err.log will be written in the current working directory. This variable is an environment variable.

| | |
|-----------------|--------------------|
| Default: | \$(ATHOS_ROOT)\log |
| Source: | Environment |

FILE_MODE

The mode how the files are stored. Possible strings are ABSOLUTE or SINGLE_VOLUME or MULTI_VOLUME.

ABSOLUTE each file location is stored with an absolute path.

SINGLE_VOLUME the absolute path has to be created by concatenating the file prefix with the stored file location information. The file prefix information is not stored in the database. For BaseAttributes of AoExternalComponent the file prefix information is stored with the context variables FILE_ROOT. For BaseAttributes externals_references.location the file prefix information is stored with the context variable FILE_ROOT_EXTREF.

MULTI_VOLUME the absolute path has to be created by substituting the symbol name with it's value. The symbol name is stored within the file location in the database, and is enclosed within \$(symbol name). Example: (in case of UNC_WIN) filename_url=data.xls MyVolume_1=c:
This variable is defined by ASAM ODS. **Don't modify this variable during life time of the storage**

| | |
|-----------------|----------|
| Default: | ABSOLUTE |
| Source: | INI-File |

FILE_NOTATION

defines in which notation the file locations are stored, shortly it's an issue of / vs. \. Possible strings are UNC_WIN or UNC_UNIX or URL.

UNC_WIN (Universal Naming Convention): uses Windows UNC format with windows specific "\" backslash delimiters; \hostname

UNC_UNIX uses Unix UNC format with unix specific "/" slash delimiters; //hostname/path

URL (Uniform Resource Locator) protocol://hostname/path Currently only 'file' is supported as protocol

This variable is defined by ASAM ODS. Use the file notation according to the operating system.

| | |
|-----------------|----------|
| Default: | URL |
| Source: | INI-File |

FILE_ROOT

define the root path for external component file Urls (filename_url, flags_filename_url). This is the root path for writing (no matter whether single or multi volume mode) any file of external components and also the root path for reading them in single volume mode.

This variable is defined by ASAM ODS.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

FILE_ROOT_EXTREF

define the root path for external references location attribute e.g. "d:\data\externalreferences"). This is the root path for writing (no matter whether single or multi volume mode) any file of external references and also the root path for reading them in single volume mode.

This variable is defined by ASAM ODS.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

FILE_SYMBOLS

returns a list of comma-separated symbol names. In case of SINGLE_VOLUME, there are two symbols predefined : FILE_ROOT, FILE_ROOT_EXTREF The symbol names must be maintained by the user in the INI-File, each time the FILE_ROOT is modified add the new symbol used in the FILE_ROOT to this list.

This variable is defined by ASAM ODS.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

FILTER_VARIABLES

The name of the attribute or variable or list of variable which should be filtered out. The variables given overhere are not reported to the client with the context variables functions.

| | |
|-----------------|-------------|
| Default: | DB_PASSWORD |
| Source: | INI-File |

FREE_NUMBER_LC

The number of localcolumn which will be unloaded if the number of localcolumn exceeds the maximum number of localcolumns, see also MAX_NUMBER_LC. This variable is an Athos global variable.

The default is MAX_LC_NUMBER/2.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

GUESS_FOR_INV_REF

Guess for the inverse reference. If this variable is set to 'YES' ATHOS will guess which reference is the inverse reference of a reference. When an inverse reference names is given or the base reference is given, these information is used to find the inverse reference. When both informations are not available, ATHOS searches at the target application element for a reference to the own application element the first reference without a base reference and no no inverse reference name will be used.

| | |
|-----------------|----------|
| Default: | NO |
| Source: | INI-File |

INI_FILE_VARIABLES

For the INI-file variables of this driver, see the driver 'mmd3'.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

KNOWN_RELATIONS_FILE

Filename with the known relations and corresponding inverse relations. ATHOS tries to find the inverse relation, normally the inverse relation is given in the application model, there are some storage (ATF/CLA) or RPC-API which don't support this information. In this file the information can be added to the application model. Each line in the file is one relation. There are two element / attribute name pairs in each line. The first element / attribute name pair is the reference, the second element / attribute name pair is the inverse reference. The element and attribute names are combined with a dot (.). The element name can also be a basetype.

E.g

AoUnit.reference AoQuantity.invReference

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

LOAD_NEXT_ID

Load the next ID for a new instance element. If the ID cannot be supported by the translator, such as avl3 or atf13, Athos tries to load all the instances and determine the maximum current

ID and the next ID will add one. If the client does not need the ID of the instance element until the commit of the transaction. It is not required to load the next ID, which can save the loading time of all instances.

| | |
|-----------------|----------|
| Default: | YES |
| Source: | INI-File |

LOAD_SUBMATRIX

Set this configuration variable to "Yes" if the driver is not able to load one single localcolumn alone. The Athos Runtime System is informed by this variable that the driver always loads an entire submatrix if one localcolumn is requested.

| | |
|-----------------|----------|
| Default: | No |
| Source: | INI-File |

LOG_EVENTS

Log the events which can be errors, warnings or information messages also to the Athos logging system. If one service sets the level, the level will be globally set until a next service modifies the level again. The level will be only modified if this variable is available in the service.

- 0 - No messages in log system.
- 1 - Error messages in log system.
- 2 - Error and Warnings messages in log system.
- 3 - All messages in log system.

The default is leave the actual level, the default level = 0.

| | |
|-----------------|----------|
| Default: | |
| Source: | INI-File |

LOG_MAX_LINES

The maximum number of lines of the messages output file. If this value is 0 there is no maximum and all messages will be appended to the same file. This file can grow to a huge file. If the maximum number of lines is reached, a new file with the same name will be created.

| | |
|-----------------|------------------|
| Default: | 32000 |
| Source: | INI-File, global |

LOGFILE

Name of log file. In this log file the message for special logging, independent of the debuglevel will be stored. This file is only used for tracking special effects by messages in the code. If no file is given the messages will not printed out, this is the default.

Normally the developers send a special version of the code, otherwise this variable should not be used.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

MAX_LC_MEMORY

The maximum memory available for the values and flags of the localcolumn values in Megabytes. If no value is set, the check if the available memory is turned off, it is left to the system resources how much memory is available. Was MAX_LOCALCOLUMN_MEMORY in Athos 1.40.

| | |
|-----------------|------------------|
| Default: | 0 |
| Source: | INI-File, global |

MAX_NUMBER_LC

The maximum number of localcolumns in the localcolumn cache. If no value is set there is no check for the maximum number of localcolumns. If the number of localcolumns exceed the maximum number, only a certain number of localcolumns will be unloaded and not that amount

of column that the number of column is below the maximum, see also FREE_NUMBER_LC. Be careful that the maximum number is higher than the number of localcolumns of a measurement, otherwise the cache of the localcolumn will have no advantage. This variable is an Athos global variable.

| | |
|-----------------|----------|
| Default: | 0 |
| Source: | INI-File |

MAXBLOBLLEN

Maximum size of a blob element in byte. See also the driver specific explanation.

| | |
|-----------------|----------|
| Default: | 254 |
| Source: | INI-File |

MAXBYTESTRLLEN

Maximum size of a bytestream element in byte. See also the driver specific explanation.

| | |
|-----------------|----------|
| Default: | 254 |
| Source: | INI-File |

MAXDATELEN

Maximum size of the date string element in byte. See also the driver specific explanation.

| | |
|-----------------|----------|
| Default: | 24 |
| Source: | INI-File |

MAXSTRLEN

Maximum size of a string element in byte. See also the driver specific explanation.

| | |
|-----------------|----------|
| Default: | 254 |
| Source: | INI-File |

MULTITHREADABLE

Run the Athos Runtime System in the multithreaded mode. This flag has only influence on Win32 systems. On other operating systems the flag is not checked and the Athos Runtime System will run always in a singlethreaded mode. Use this flag only if the server runs in the singlethread mode and the translator needs the Athos Runtime System as a multithreaded object storage.

The default is 'NO' for Win32 systems, 'NO' for all other operating systems.

| | |
|-----------------|----------|
| Default: | NO |
| Source: | INI-File |

NOSECURITYACTIVE

Deactivate the security. There are some drivers, such as AVL3, which always deactivate the security. The driver expects that the security will be done by the server to which it is connected as a client. If this server does not support security the driver is not able to load the needed security information from there. Was NOSECURITYACTIV in Athos 1.40

This variable switch the security check between the translator and the Athos Runtime System, normally the security is done at the server side so there is no security check required at this level, even when the security is active at the server level this variable must be "YES".

| | |
|-----------------|----------|
| Default: | YES |
| Source: | INI-File |

OSTYPE

The name of the operating system. This variable is expected to be defined in the environment. It is used to properly react to operating system dependencies at run time. This variable is necessary because it is not desirable to handle all operating system dependencies at compile

time. OSTYPE cannot be overwritten by the INI-File. Attempts to do this are ignored by the Athos Runtime System. This variable can be used for system independent INI-File writing. If the expression win32 is found in the INI-File it will be substituted by the content of this variable.

| | |
|-----------------|-------------|
| Default: | No default |
| Source: | Environment |

PASSWORD

ASAM ODS user password.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

RUN_SINGLETHREADED

Suppress the automatic change of the Athos Runtime System into the multithreaded mode. The performance of the singlethreaded mode is better than the multithreaded mode. Use this parameter only for singlethreaded applications like ASCOBA. There are some drivers that start a second thread, this thread never use the Athos Runtime System but let the system change into multithreaded mode. When this variable is available the system stays in the single threaded mode. The avl3 driver on Windows 2000 starts in Windows Socket software a second thread and there are also some Oracle ODBC drivers that start a second thread. The default is not set, starts the Athos Runtime System automatic in multithreaded mode.

| | |
|-----------------|----------|
| Default: | |
| Source: | INI-File |

SEARCH_FOR_BASE_REF

Search for the base relations if no base relation is given. If this variable has the value 'NO' there is no automatic search for base relations. The relations between two elements, without a base relation which have in the base model a relation becomes that base relation. Set this variable to 'NO' when all the relations of the model are correctly assigned to a base relation. The model in the early days of ASAM ODS did not have the relations assigned to a base relation so athos can search for these base relations and upgrade the relations.

| | |
|-----------------|----------|
| Default: | YES |
| Source: | INI-File |

USE_UNIQUE_REFNAME

Create an unique attribute name for N:M references. The refname of an N:M reference is not always unique at an application element. The physical storage don't force this uniqueness. When this variable is set to name of the target application element and the refname are combined with '@' to create an unique attribute name. If the model guarantees that the refnames are unique at the application element only the refname can be used.

| | |
|-----------------|----------|
| Default: | YES |
| Source: | INI-File |

USER

ASAM ODS user.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

write_mode

The ASAM ODS defined variable, which tells the translator where to write the flags and values of the local columns. If this variable is set to 'file' the translator writes the values of the explicit channels in a file. The name of the file is concatenated from a fixed part and

the Id of the measurement. The extension of the file is given in the variable BIN_EXT. The directory of the file is given in the variable BIN_PATH.

| | |
|-----------------|----------|
| Default: | database |
| Source: | INI-File |

8.2 Ascoba Configuration variables

ASCOBA_COMPLETE_MODEL

Ascoba copies at select only the selected instances with there application elements. There are some services which need the complete model to be a valid application model and so a valid ASAM ODS storage (E.g. ATF/XML). When this switch is dset to 'YES' in the target service (TO) all application elements from the source service (FROM) are copied into the target services.

| | |
|-----------------|----------|
| Default: | NO |
| Source: | INI-File |

ASCOBA_COPY_ALL_INSTANCES_OF

Ascoba copies at select only the selected instances of the selected application elements. In some cases all instances of a certain application element should be copied independent of the selected instances (E.g. AoEnvironment or AoUnit). The application elements can be given in the target service (TO) with this variable. The names of the application elements are separated by spaces. When the name of the application element start with 'Ao' the element name is used as base type. The base type is case blind, the name of the application element is case sensitive. When the application element is used in the select, this variable will overwrite the select condition.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

ASCOBA_COPY_SECURITY

Ascoba copies all access control security informations of the current application Element and its instances from the ACLA, ACLI ACLTEMPLATE and the security level to the new service.

| | |
|-----------------|----------|
| Default: | NO |
| Source: | INI-File |

ASCOBA_INI

The environment variable, with the name of the INI-File.
The default is the file "athos.ini" in current directory.

| | |
|-----------------|-------------|
| Default: | |
| Source: | Environment |

ASCOBA_LOGFILE

Name of the log-file for the messages of the program.

Caution: With a high debuglevel the file may become very large.

The default is no output in a file, but at the console the stdout-device.

| | |
|-----------------|------------------|
| Default: | |
| Source: | INI-File, global |

LASSO

List with names of the application elements at which ascoba stops adding successors. The name of each application element must be given within '<' '>'. E.g. <Measurement><MeasurementQuantity>. The default is that all successors will be added.

| | |
|-----------------|------------|
| Default: | No default |
| Source: | INI-File |

MAX_RUN_INST

The maximum number of selected instance, before ascoba starts to split the result ATF-Files.

| | |
|-----------------|------------------|
| Default: | 10 |
| Source: | INI-File, global |



Chapter 9

Athos version

9.1 How to determine the Athos version

The compile-time versions of the current shared libraries of the Athos Toolkit are shown with the command. You can give more than one name of the shared library. This program can also be used to determine which other shared libraries or executables of third parties will be used.

```
athosversion <name or path of the shared library>
```

Example of the odsapi.dll for Win32:

```
athosversion odsapi.dll
Load shared library 'odsapi.dll'
  odsapi with version 3.0
  athos with version 3.0
  Name of file <d:\athos\bin\win32\odsapi.dll>
  The internal name is <odsapi Release>
```

The example for Win32 shows that the odsapi.dll is compiled and linked in the release mode. An alternative of the release mode is the debug mode. If there is a mixture of files with release mode and debug mode, the system will crash.

Example of the libodsapi.so for Linux:

```
athosversion libodsapi.so
Load shared library 'libodsapi.so'
  odsapi with version 3.3
  athos with version 3.3
```



Chapter 10

Compiling

The compiler settings are for all the modules of Athos identical. Some times an additional library or include files are required. The compiler settings differ for the different operating systems. The settings for the Win32 and Linux operating system are supported by HighQSoft, for other operating system it might be required to build up separate makefiles.

10.1 Compiler settings for Visual C/C++ 6.0

The development is done with the Visual C/C++ compiler of the Microsoft Visual Studio 6.0. This version of the Visual C/C++ compiler is also known as the version Visual C/C++ 6.0. There are to many different workspaces for a one-button compilation, so there is a command which compiles the total Athos source tree. The project files (*.dsp) are part of the Athos source deliverable.

The description in this Chapter is only for Windows NT and the Visual C/C++ compiler, for other operating systems and with other compilers a separate setting is required.

10.1.1 Including path setting

The include files of the Athos system are given in the directory "%ATHOS_ROOT%\include". If you use RPC another include path "%ATHOS_ROOT%\tools\rpcgen" must be added. This setting is found at the menu 'tools' the entry 'options'.

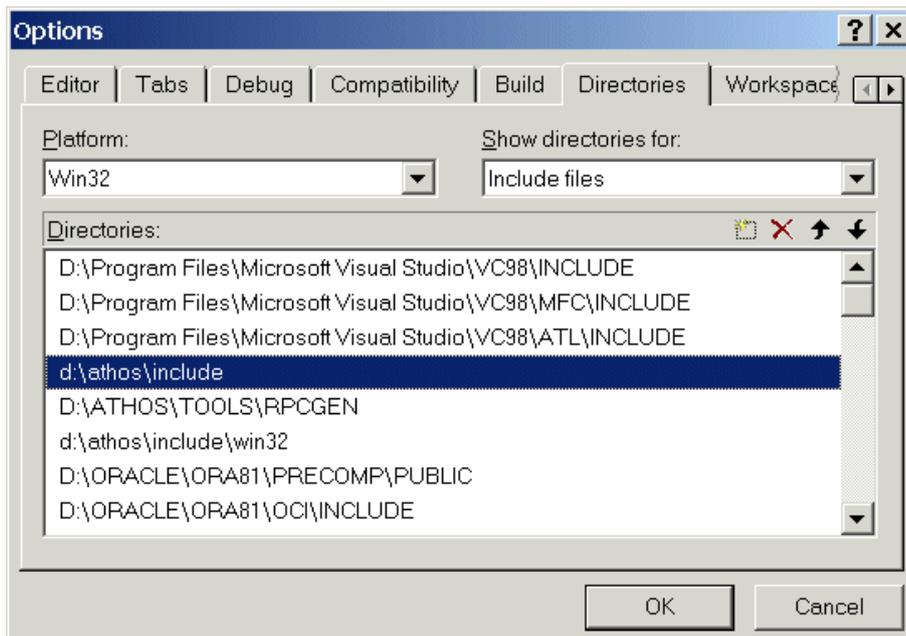


Figure 10.1: MSVC Options

10.1.2 Project specific compiler settings for Visual C/C++ 6.0

The following settings are project specific, open an existing project or create a new project and go to the Settings of the project. For all code using the Athos Runtime System the project settings are required to prevent Microsoft specific runtime errors.

10.1.3 C/C++ settings

The code of the Athos system must be compiled as:

```
'(DEBUG) Multithreaded DLL'
```

This setting is found in the menu 'project' the entry 'settings'. The precompiler setting "WIN32" is also required. We have only seen that the compiler option 'code generation' is changed in the new Visual C/C++ Version 6.0 project files, so check after the conversion of the projects from Visual C/C++ 5.0 to Visual C/C++ 6.0 that the "code generation" is installed correctly.

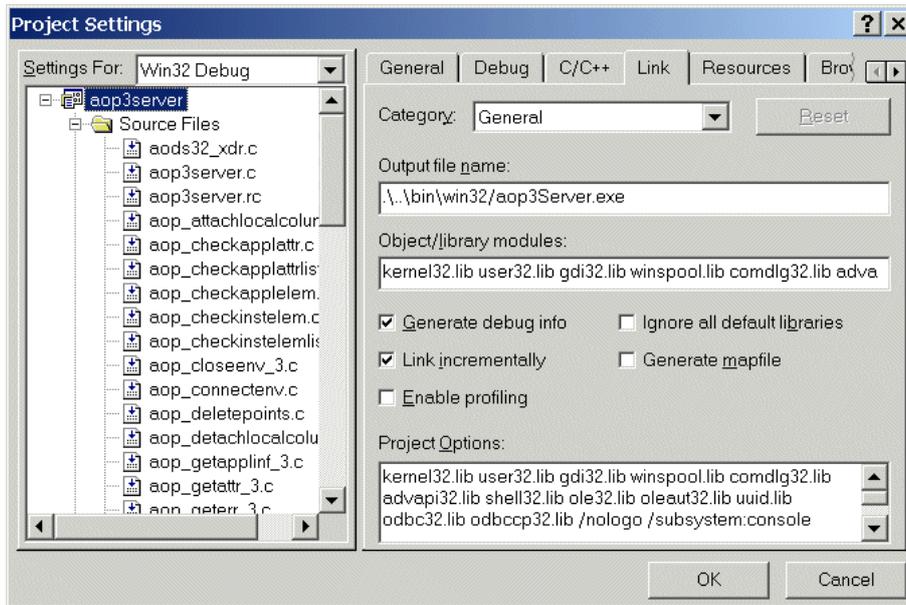


Figure 10.3: MSVC Link options

10.1.5 Set the output directory

The output directories of the "Debug" and "Release" are both in the same directory. Be careful that the directory has to start with '.',\' as the current directory.

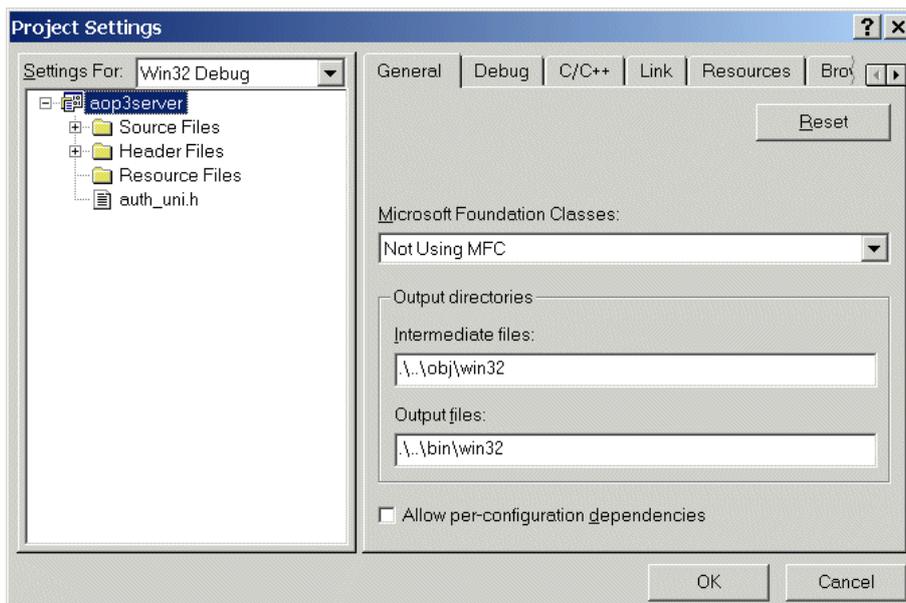


Figure 10.4: MSVC General options

10.1.6 Add additional system libraries

To add additional system libraries like `wsock32.lib`.

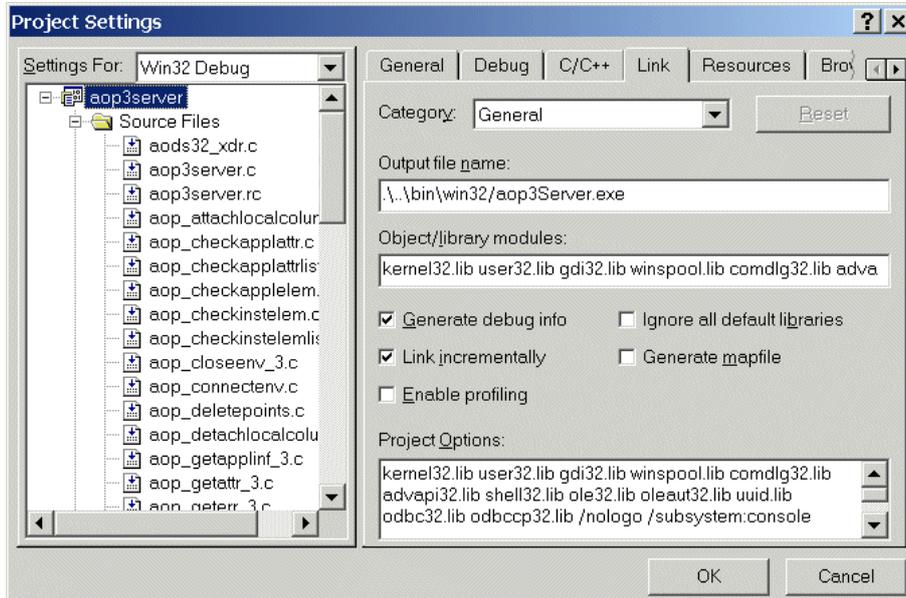


Figure 10.5: MSVC Link options

10.1.7 Athos Runtime System

The Athos Runtime System contains a lot of different projects, the compiling order of the projects is important. For the different operating systems there are files available that allow you to compile and link the total Athos Runtime System in the correct order.

10.1.8 Using the compile command "abuild"

There is a batch file called `abuild.bat` that will compile all the projects started from the current directory. When this command is started in the directory `%ATHOS_ROOT%` all projects will be compiled. This command uses the Project dependencies and makefiles of the visual studio projects.

Export the makefiles. Write the dependencies in the makefile at Microsoft Visual Studio 6.0.

Set the environment variables `MSVCDIR`, `INCLUDE` and `LIB`. Be careful that the `PATH` environment variable has the `'%ATHOS_ROOT%\bin\win32'` and for the C-Compiler `c1.exe` everything set. The best you can do is to register the environment variables during the installation of the Microsoft Visual Studio.

- The environment variable `MSVCDIR` must be set the to the root of the C/C++ compiler. The Installation of Microsoft Visual Studio 6.0 sets the variable `MSVCDIR` to the common directory, this will cause the `win32.mak` to not be found.

An example of the environment variables `MSVCDIR`, `LIB` and `INCLUDE` are given below, Visual Studio is installed in the directory `"C:\\Programme\\Microsoft Visual Studio"`. A part of the

environment variable PATH is also given for this location.

- MSVCDIR=C:\Programme\Microsoft Visual Studio\vc98
- PATH=C:\Programme\Microsoft Visual Studio\Common\MSDev98\Bin;C:\Programme\Microsoft Visual Studio\VC98\bin;d:\athos\bin\win32
- LIB= C:\Programme\Microsoft Visual Studio\vc98\lib
- INCLUDE= C:\Programme\Microsoft Visual Studio\vc98\include

Call 'abuild' in the directory %ATHOS_ROOT% and the total ATHOS system will be compiled.

Abuild has three possible different parameters:

- Debug (Default) compile / link in debug mode.
- Release compile / link in release mode.
- Clean cleans the projects.

Example of the Makefile.NT file:

```
!include etc\Win32\machinedep.mk
```

Debug:

```
aCheck $(ATHOS_ROOT)\util Debug
```

Release:

```
aCheck $(ATHOS_ROOT)\util Release
```

Clean:

```
aCheck $(ATHOS_ROOT)\util Clean
```

Another example of the Makefile.NT:

```
!include ..\etc\Win32\machinedep.mk
```

Debug:

```
$(MAKE) /NOLOGO /F util.mak CFG="util - Win32 Debug"
```

Release:

```
$(MAKE) /NOLOGO /F util.mak CFG="util - Win32 Release"
```

clean:

```
$(MAKE) /NOLOGO /F util.mak CFG="util - Win32 Release" clean
```

The file 'util.mak' is the exported makefile from the Visual C/C++ developer studio. You can export a makefile at the menu 'project' the entry 'export makefile'.



10.1.9 Compiling on UNIX systems

On the UNIX-operating systems we have also the command 'abuild' to compile the whole Athos software products. Before the command can be called some environment settings are required. These setting will be done by the script 'setupathos'. This script must be called differently depending on the type of shell. The call is shown in the following table.

```
Shell Command
Sh source setupathos
Csh source setupathos.csh
```

The command can change for each operating system, ask your system administrator for the correct command to execute the command shell.

On the operating systems with the GNU C/C++ compiler the 'abuild' command works fine to compile the complete source system.

There are some operating systems installed with there own C compiler, on these operating systems we don't guarantee the 'abuild' command will work properly. There is a special command created for the HP-UX operating system with the HP C compiler called 'hpbuild'. There are no special dependencies for the HP-UX so if the 'abuild' command does not work, you can always try the command 'hpbuild'.



Chapter 11

Appendices

11.1 Athos Error Link List

- 0 AO_UNKNOWN_ERROR
- 1 AO_ACCESS_DENIED
- 2 AO_BAD_OPERATION
- 3 AO_BAD_PARAMETER
- 4 AO_CONNECT_FAILED
- 5 AO_CONNECT_REFUSED
- 6 AO_CONNECTION_LOST
- 7 AO_DUPLICATE_BASE_ATTRIBUTE
- 8 AO_DUPLICATE_NAME
- 9 AO_DUPLICATE_VALUE
- 10 AO_HAS_INSTANCES
- 11 AO_HAS_REFERENCES
- 12 AO_IMPLEMENTATION_PROBLEM
- 13 AO_INCOMPATIBLE_UNITS
- 14 AO_INVALID_ASAM_PATH
- 15 AO_INVALID_ATTRIBUTE_TYPE
- 16 AO_INVALID_BASE_ELEMENT
- 17 AO_INVALID_BASETYPE
- 18 AO_INVALID_BUILDUP_FUNCTION
- 19 AO_INVALID_COLUMN
- 20 AO_INVALID_COUNT

- 21 AO_INVALID_DATATYPE
- 22 AO_INVALID_ELEMENT
- 23 AO_INVALID_LENGTH
- 24 AO_INVALID_ORDINALNUMBER
- 25 AO_INVALID_RELATION
- 26 AO_INVALID_RELATION_RANGE
- 27 AO_INVALID_RELATION_TYPE
- 28 AO_INVALID_RELATIONSHIP
- 29 AO_INVALID_SET_TYPE
- 30 AO_INVALID_SMATLINK
- 31 AO_INVALID_SUBMATRIX
- 32 AO_IS_BASE_ATTRIBUTE
- 33 AO_IS_BASE_RELATION
- 34 AO_IS_MEASUREMENT_MATRIX
- 35 AO_MATH_ERROR
- 36 AO_MISSING_APPLICATION_ELEMENT
- 37 AO_MISSING_ATTRIBUTE
- 38 AO_MISSING_RELATION
- 39 AO_MISSING_VALUE
- 40 AO_NO_MEMORY
- 41 AO_NO_PATH_TO_ELEMENT
- 42 AO_NOT_FOUND
- 43 AO_NOT_IMPLEMENTED
- 44 AO_NOT_UNIQUE
- 45 AO_OPEN_MODE_NOT_SUPPORTED
- 46 AO_SESSION_LIMIT_REACHED
- 47 AO_SESSION_NOT_ACTIVE
- 48 AO_TRANSACTION_ALREADY_ACTIVE
- 49 AO_TRANSACTION_NOT_ACTIVE
- 50 AO_HAS_BASE_RELATION
- 51 AO_HAS_BASE_ATTRIBUTE
- 52 AO_UNKNOWN_UNIT
- 53 AO_NO_SCALING_COLUMN

- [54](#) AO_QUERY_TYPE_INVALID
- [55](#) AO_QUERY_INVALID
- [56](#) AO_QUERY_PROCESSING_ERROR
- [57](#) AO_QUERY_TIMEOUT_EXCEEDED
- [58](#) AO_QUERY_INCOMPLETE
- [59](#) AO_QUERY_INVALID_RESULTTYPE
- [60](#) AO_INVALID_VALUEMATRIX_STRUCTURE
- [100](#) AO_LAST_ODS_ERROR
- [902](#) AO_HAS_ELEMENTS
- [903](#) AO_SYNTAX_ERROR_IN_ASAMPATH
- [904](#) AO_UNABLE_OPEN_FILE
- [905](#) AO_FILE_OPEN
- [1000](#) AO_CONNECT_EVENTLOG
- [1001](#) AO_CLOSE_EVENTLOG
- [1002](#) AO_SUPPRESS_REPORT
- [1003](#) AO_REPORT_ALL_EVENT
- [1004](#) AO_THREAD_START
- [1005](#) AO_THREAD_STOP
- [1006](#) AO_ERROR_THREAD_CREATE
- [1100](#) AO_DRIVER_LOAD_SUCCESSFUL
- [1500](#) AO_EVENT
- [2500](#) AO_UNKNOWN_UNICODE_CHAR
- [2501](#) AO_UNKNOWN_KEYWORD_VALUE
- [3000](#) AO_NO_OBJECT
- [3001](#) AO_WRONG_OBJECT
- [3002](#) AO_UNKNOWN_DATATYPE
- [3003](#) AO_NO_ARRAY
- [3004](#) AO_ARRAY_ERROR
- [3005](#) AO_NO_VALUES_ARRAY
- [3006](#) AO_NO_COPY_FUNCTION
- [3007](#) AO_NO_VALUE
- [3008](#) AO_IS_READONLY
- [3009](#) AO_NO_NAME

- 3010 AO_NO_PUT_OBJECT
- 3011 AO_NO_DISCONNECT
- 3013 AO_NO_OPENENV
- 3014 AO_NO_GET_OBJECT
- 3015 AO_NO_DRIVERNAME
- 3016 AO_NO_SHAREOBJECT
- 3017 AO_LOAD_DRIVER
- 3018 AO_ERROR_MSG
- 3019 AO_NO_VALUE_SIZE
- 3020 AO_OUT_OF_RANGE
- 3021 AO_NO_DRIVER
- 3022 AO_NO_ENVIRONMENT
- 3023 AO_UNABLE_LOAD_DRIVER
- 3025 AO_IS_SAME_POINTER
- 3026 AO_NO_BASEREF
- 3027 AO_NO_BASEATTR
- 3028 AO_NO_ATTROBJ
- 3029 AO_NO_REFOBJECT
- 3030 AO_NO_APPLELEM
- 3031 AO_ONLY_ONE_ENV
- 3032 AO_NO_BASEELEM
- 3033 AO_WRONG_BA_DATATYPE
- 3034 AO_NO_SERVICE
- 3035 AO_NO_SRV_FOUND
- 3036 AO_NO_DESTRUCTION
- 3038 AO_UNABLE_WRITE_FILE
- 3039 AO_NO_INIT_FILE
- 3040 AO_DIM_ALREADY_SET
- 3041 AO_NO_MATRIX
- 3042 AO_NO_SEQUENCE
- 3043 AO_NO_COLLECTION
- 3044 AO_WRONG_NUMBER_IN_COLUMN
- 3045 AO_NO_SUBMAT

- 3046 AO_NO_MEA_BASEELEM
- 3047 AO_NO_ID
- 3048 AO_NO_INSTELEM
- 3049 AO_NO_REFERENCE_FOUND
- 3050 AO_ALREADY_IN_LIST
- 3051 AO_WRONG_DATE
- 3053 AO_NO_LC_FOUND
- 3054 AO_NO_TARGET_FOUND
- 3055 AO_UNABLE_INIT_SOCKET
- 3056 AO_WRONG_ASAMPATH
- 3057 AO_NO_UNIQUE_ASAMPATH
- 3058 AO_NO_DATATYPE
- 3059 AO_NO_LC_FOR_MEQ
- 3060 AO_NOTHING_TO_SET
- 3061 AO_WRONG_ENVIRONMENT
- 3062 AO_NO_RELATION_FOUND
- 3063 AO_INVALID_REQUEST
- 3064 AO_WRONG_DATATYPE
- 3065 AO_ORPHAN_APPLICATION_ELEMENTS
- 3066 AO_NO_FATHER
- 3067 AO_NO_UNIQUE_INSTANCE
- 3068 AO_NO_SUB_BASEELEM
- 3069 AO_NO_LCC_BASEELEM
- 3070 AO_WRONG_BASEELEM
- 3071 AO_NOT_IN_SAME_STRUCTURE
- 3072 AO_NO_LOCALCOLUMN
- 3073 AO_NO_COLUMN
- 3076 AO_NO_APPLELEMS
- 3077 AO_NO_SMATLINK
- 3078 AO_MORE_INDEP_CHANNEL
- 3080 AO_NO_INSTANCE_ATTRIBUTE
- 3081 AO_RELATED_INST_LEFT
- 3082 AO_WRONG_APPLELEM

- 3083 AO_FOUND_DIFFERENCE
- 3084 AO_NO_TARGET
- 3085 AO_UNKNOWN_RELATIONSHIP
- 3086 AO_NO_INVERSE_REFERENCE
- 3087 AO_TO_MUCH_FATHER
- 3088 AO_NO_SPACE_LEFT
- 3089 AO_NO_PASSWORD
- 3090 AO_WRONG_PASSWORD
- 3091 AO_WITHOUT_PASSWORD
- 3092 AO_UNKNOWN_NUMBER_OF_VALUES
- 3093 AO_TO_MUCH_ELEMENTS
- 3094 AO_WRONG_USERNAME
- 3095 AO_NOT_IN_USERGROUP
- 3096 AO_UNSUPPORTED_MODE
- 3097 AO_WRONG_NAME
- 3098 AO_DIFFERENT_ENV_NAMES
- 3099 AO_OLD_BASE_MODEL
- 3100 AO_NO_STRUCTURE
- 3101 AO_WRONG_STRUCTURE
- 3102 AO_WRONG_LENGTH
- 3103 AO_WRONG_CONFIG
- 3104 AO_WIN32_ERROR
- 3105 AO_SVCTABLE_ERROR
- 3106 AO_BASE_ATTRIBUTE_REQUIRED
- 3107 AO_ATTRIBUTE_AUTO_GENERATED
- 3108 AO_NO_INV_REFERENCE
- 3109 AO_NO_BASE_REFERENCE
- 3110 AO_DEADLOCK_DETECT
- 3111 AO_WRONG_ATTRIBUTE
- 3112 AO_DIVISION_BY_ZERO
- 3200 AO_NULL_POINTER
- 3300 AO_WRONG_FILETYPE
- 3500 AO_NO_BASEELEMENT

- 3501 AO_WRONG_BASEATTR
- 3600 AO_NO_TIMESTAMP
- 4000 AOP_UNEXPECTED_STATE
- 4001 AOP_RETVAL_ZERO
- 4002 AOP_DELETE_NOTHING
- 4003 AOP_DT_MISMATCH
- 4004 AOP_NO_ENVIRONMENT
- 4005 AOP_NO_LOCALCOLUMN
- 4006 AOP_UNKNOWN_DATATYPE
- 4007 AO_FILEVERSION_NOT_SUPPORTED
- 4008 AO_FILETYPE_NOT_SUPPORTED
- 4010 AOP_SVC_ERROR
- 4011 AO_NOT_CLOSED
- 4500 AO_DRIVER_CRASHED
- 5000 AO_UNKNOWN_CLIENT
- 5050 AO_NO_CLASS
- 5051 AO_NO_FIELDID
- 5052 AO_NO_METHODID
- 6000 AO_NO_ENV_ELEM
- 6001 AO_SYNTAX_NAME
- 6002 AO_SYNTAX_BAN
- 6003 AO_SYNTAX_BADT
- 6004 AO_SYNTAX_BASK
- 6005 AO_SYNTAX_BRFN
- 6006 AO_SYNTAX_BRCN
- 6007 AO_SYNTAX_BRIN
- 6010 AO_ORPHAN_BASE_ELEMENTS
- 7000 AO_NO_DRIVER_INFO
- 7003 AO_OPEN_ENV
- 7004 AO_ENV_NOT_OPEN
- 7005 AO_NO_CARD
- 7006 AO_CLOSE_ENV
- 7500 WINNT_SERVICE_CONTROL

- 7501 WINNT_UNABLE_REGISTER
- 7502 WINNT_OPEN_SERVICECONTROLMANAGER
- 7503 WINNT_OPEN_SERVICE
- 7504 WINNT_START_SERVICE_ERROR
- 7505 WINNT_START_SERVICE
- 7506 WINNT_CONTROL_SERVICE_ERROR
- 7507 WINNT_SERVICE_WRONG_STATE
- 7508 WINNT_SERVICE_STATE
- 7509 WINNT_SERVICE_STATE_ERROR
- 8000 ATF_MISSING_QUOTE
- 8001 ATF_TOKEN_TOO_LONG
- 8002 ATF_NO_ATF_FILE
- 8003 ATF_WRONG_ATF_VERSION
- 8004 ATF_NO_TERMINATOR
- 8005 ATF_WRONG_TOKEN
- 8006 ATF_MISSING_IDENTIFIER
- 8007 ATF_ALREADY_DEFINED
- 8008 ATF_SEEK_ERROR
- 8500 XATF_ERROR_FOUND
- 8501 XATF_ERROR_REPORT
- 8502 XATF_WARNING_FOUND
- 9000 AO_NO_ENVNAME
- 9002 AO_NO_APPLELEMS_LOAD
- 9003 AO_NO_APPLATTRS_LOAD
- 9004 AO_WRONG_ARGUMENTS
- 9005 AO_NO_INSTATTR_LOAD
- 9006 AO_NO_SUBMAT_LOAD
- 9007 AO_NO_LOCALCOLUMN_LOAD
- 9008 AO_NO_VALUES_LOAD
- 9009 AO_UNKNOWN_SAVE_MODE
- 9050 AO_SQL_ERROR_STATE
- 9051 AO_SQL_NATIVE_ERROR
- 9052 AO_SQL_ERROR_MSG

- [9053](#) AO_USE_DATABASE
- [9055](#) AO_ERROR_IN_SQL
- [9056](#) AO_SQL_INFORMATION
- [9060](#) AOD_UNABLE_PUT_APPLELEM
- [9061](#) AOD_UNABLE_CREATE_TABLE
- [9062](#) AOD_UNABLE_CHANGE_APPLELEM
- [9063](#) AOD_NO_MEQ
- [9064](#) AOD_UNABLE_TO_INSERT
- [9065](#) AOD_NO_APPLELEM
- [9066](#) AO_STMT_TO_LONG
- [9070](#) AO_ORACLE_ERROR_STATEMENT
- [9071](#) AO_ORACLE_NATIVE_ERROR
- [9072](#) AO_ORACLE_ERROR_MSG
- [9073](#) AO_NOT_ALL_INSTANCE_LOADED
- [9999](#) AO_SUPERUSER_LOGIN
- [10000](#) AOC_WRITE_DENY
- [10001](#) AOC_UNKNOWN_MODE
- [21000](#) P3D_CANNOT_LOAD_VIEW
- [21001](#) P3D_CANNOT_LOAD_MODEL
- [21002](#) P3D_CANNOT_LOAD_CONTROL
- [21003](#) P3D_CANNOT_UPDATE_VIEW
- [21004](#) P3D_CANNOT_UPDATE_MODEL
- [21005](#) P3D_CANNOT_UPDATE_CONTROL
- [21006](#) P3D_COMPONENT_IS_NOT_REGISTERED
- [21050](#) P3D_NO_PARENT_NODE
- [21051](#) P3D_ILLEGAL_SHARING
- [21100](#) P3D_CAPABILITY_NOT_SET
- [21150](#) P3D_COMPONENT_ARRAY_INDEX_OUT_OF_BOUNDS
- [21200](#) P3D_WRONG_AXIS_TYPE_VALUE
- [21201](#) P3D_CANNOT_SET_AXIS_DEFAULTS
- [21202](#) P3D_CANNOT_SET_CHANNEL_DEFAULTS
- [21203](#) P3D_CANNOT_SET_TEXT_DEFAULTS
- [21204](#) P3D_CANNOT_SET_LINE_DEFAULTS

- 21205 P3D_CANNOT_SET_PLOT_DEFAULTS
- 21300 P3D_INVALID_CHANNEL_NAME
- 21400 P3D_CANNOT_CAST_TO_AXIS
- 21401 P3D_CANNOT_CAST_TO_CHANNEL
- 22001 FWK_CLASS_INSTANTIATION_SUCCESSFUL
- 22002 FWK_SERVICE_CONTROL_MANAGER_START_SUCCESSFUL
- 22003 FWK_ASAM_ODS_SERVICE_CREATION_SUCCESSFUL
- 22004 FWK_ASAM_ODS_FACTORY_CREATION_SUCCESSFUL
- 22005 FWK_ORB_CREATION_SUCCESSFUL
- 22006 FWK_NAME_SERVICE_CREATION_SUCCESSFUL
- 22007 FWK_NAME_SERVICE_FOUND
- 22008 FWK_BIND_TO_NAME_SERVICE_SUCCESSFUL
- 22009 FWK_NAME_SERVER_UP
- 22010 FWK_NO_ROOT_NAMING_CONTEXT
- 22011 FWK_NO_NAMING_CONTEXT
- 22050 FWK_SERVICE_STATE_REPORT
- 22101 FWK_CLASS_INSTANTIATION_FAILED
- 22102 FWK_CLASS_NOT_FOUND
- 22103 FWK_CONSTRUCTOR_NOT_FOUND
- 22104 FWK_DOCUMENT_NODE_UNKNOWN
- 22105 FWK_INPUT_FAILED
- 22106 FWK_METHOD_INVOCATION_FAILED
- 22107 FWK_METHOD_NOT_FOUND
- 22108 FWK_OUTPUT_FAILED
- 22109 FWK_XML_PARSER_PROBLEM
- 22110 FWK_UNKNOWN_HOST
- 22111 FWK_UNABLE_TO_JOIN_INFOBUS
- 22112 FWK_WRONG_LISTENER_CONTROLLER_TYPE
- 22113 FWK_CANNOT_CREATE_DATAFLAVOR
- 22114 FWK_ARRAY_INDEX_OUT_OF_BOUNDS
- 22115 FWK_HELPSET_NOT_FOUND
- 22116 FWK_PROPERTY_VETO
- 22117 FWK_IS_ETERNAL_AND_ALREADY_REGISTERED

- [22118](#) FWK_CANNOT_START_FRAME
- [22119](#) FWK_WRONG_STRING_FORMAT
- [22120](#) FWK_PROPERTY_CAST_FAILED
- [22121](#) FWK_NO_AUTOSTART
- [22501](#) FWK_LOAD_LIBRARY_NOT_FOUND
- [22502](#) FWK_SERVICE_CONTROL_MANAGER_START_FAILED
- [22503](#) FWK_UNABLE_START_VM
- [22504](#) FWK_ASAM_ODS_SERVICE_CREATION_FAILED
- [22505](#) FWK_ASAM_ODS_FACTORY_CREATION_FAILED
- [22506](#) FWK_ORB_CREATION_FAILED
- [22507](#) FWK_NAME_SERVICE_CREATION_FAILED
- [22508](#) FWK_NAME_SERVICE_NOT_FOUND
- [22509](#) FWK_BIND_TO_NAME_SERVICE_FAILED
- [22510](#) FWK_PORT_ADDRESS_IN_USE
- [23000](#) INFOBUS_REJECTED_JOIN
- [23001](#) INFOBUS_INVALID_NAME
- [23002](#) INFOBUS_MISSING_SEPARATOR_IN_NAME
- [23003](#) INFOBUS_UNABLE_TO_LEAVE
- [23004](#) INFOBUS_UNABLE_TO_CREATE_DATAFLAVOR
- [30000](#) PUMA_INVALID_HOSTNAME
- [30001](#) PUMA_INVALID_PORT
- [30002](#) PUMA_NO_SESSION_FOUND
- [30003](#) PUMA_WRONG_MSG_TYPE
- [30004](#) PUMA_WRONG_STATUS
- [30005](#) PUMA_WRONG_ERROR
- [30006](#) PUMA_WRONG_SEVERITY
- [30007](#) PUMA_WRONG_DESTINATIONBITS
- [30008](#) PUMA_ENGINE_FAILURE
- [31000](#) CONVERTER_UNABLE_OPEN_FILE
- [65535](#) EXTERNAL_ERROR
- [65535](#) EXTERNAL_INFO
- [65535](#) EXTERNAL_WARNING

11.2 Athos Error Messages

AO_UNKNOWN_ERROR

This error should not occur. If it does, it shows that there is a problem in the implementation. Use 0 as unknown error to avoid confusing error messages if no error code set.

| | |
|----------------|----------------|
| Event number | 0 |
| Event synopsis | No error code. |
| Event type | Error |

AO_ACCESS_DENIED

Access denied.
Access deny for %4

| | |
|----------------|----------------|
| Event number | 1 |
| Event synopsis | Access denied. |
| Event type | Error |

AO_BAD_OPERATION

A method is invalid in a marshalling operation.

| | |
|----------------|--|
| Event number | 2 |
| Event synopsis | Method invalid in marshalling operation. |
| Event type | Error |

AO_BAD_PARAMETER

A bad parameter was passed to the called method.
The bad parameter is: %4

| | |
|----------------|--------------------------------------|
| Event number | 3 |
| Event synopsis | Bad parameter passed as an argument. |
| Event type | Error |

AO_CONNECT_FAILED

The connection failed. With the following information the system tried to make the connect: %4

| | |
|----------------|-----------------|
| Event number | 4 |
| Event synopsis | Connect failed. |
| Event type | Error |

AO_CONNECT_REFUSED

The connection is refused.

| | |
|----------------|------------------|
| Event number | 5 |
| Event synopsis | Connect refused. |
| Event type | Error |

AO_CONNECTION_LOST

The connection to the server was lost.

| | |
|----------------|------------------|
| Event number | 6 |
| Event synopsis | Connection lost. |
| Event type | Error |

AO_DUPLICATE_BASE_ATTRIBUTE

The application structure check has detected two application attributes within an application element that are derived from the same base attribute.

| | |
|----------------|---------------------------|
| Event number | 7 |
| Event synopsis | Duplicate base attribute. |
| Event type | Error |

AO_DUPLICATE_NAME

Duplicate name is not allowed. The name must be unique.

The duplicate name is found:

%4

| | |
|-----------------------|----------------|
| Event number | 8 |
| Event synopsis | Duplicate name |
| Event type | Error |

AO_DUPLICATE_VALUE

Duplicate attribute names are not allowed.

The duplicate value found at:

%4

| | |
|-----------------------|--|
| Event number | 9 |
| Event synopsis | Duplicate attribute names are not allowed. |
| Event type | Error |

AO_HAS_INSTANCES

The current application element has instances and the requested operation cannot be performed when instances are present.

| | |
|-----------------------|------------------------------------|
| Event number | 10 |
| Event synopsis | Application element has instances. |
| Event type | Error |

AO_HAS_REFERENCES

The current element has relations and the requested operation cannot be performed when relations are present.

| | |
|-----------------------|------------------------|
| Event number | 11 |
| Event synopsis | Element has relations. |
| Event type | Error |

AO_IMPLEMENTATION_PROBLEM

The implementation encountered a none ASAM ODS problem. Please see the following description for details.

Detailed description of the implementation problem: %4

| | |
|-----------------------|-------------------------------------|
| Event number | 12 |
| Event synopsis | Implementation problem encountered. |
| Event type | Error |

AO_INCOMPATIBLE_UNITS

The units are incompatible. No conversion rules known.

| | |
|-----------------------|--|
| Event number | 13 |
| Event synopsis | Incompatible units. No conversion rules known. |
| Event type | Warning |

AO_INVALID_ASAM_PATH

The specified ASAM path is invalid.

The given ASAM path is: %4

| | |
|-----------------------|--------------------|
| Event number | 14 |
| Event synopsis | Invalid ASAM path. |
| Event type | Warning |

AO_INVALID_ATTRIBUTE_TYPE

The requested attribute type is invalid.

| | |
|-----------------------|-------------------------|
| Event number | 15 |
| Event synopsis | Invalid attribute type. |
| Event type | Warning |

AO_INVALID_BASE_ELEMENT

The application structure check has detected an application element that is derived from an invalid base element.

| | |
|-----------------------|-----------------------|
| Event number | 16 |
| Event synopsis | Invalid base element. |
| Event type | Error |

AO_INVALID_BASETYPE

The specified base type is invalid. The invalid base type is found at:

%4

| | |
|-----------------------|--------------------|
| Event number | 17 |
| Event synopsis | Invalid base type. |
| Event type | Warning |

AO_INVALID_BUILDUP_FUNCTION

The specified build-up function is invalid.

| | |
|-----------------------|----------------------------|
| Event number | 18 |
| Event synopsis | Invalid build-up function. |
| Event type | Warning |

AO_INVALID_COLUMN

The specified column is invalid.

| | |
|-----------------------|-----------------|
| Event number | 19 |
| Event synopsis | Invalid column. |
| Event type | Warning |

AO_INVALID_COUNT

The specified number of points is invalid.

| | |
|-----------------------|---------------------------|
| Event number | 20 |
| Event synopsis | Invalid number of points. |
| Event type | Warning |

AO_INVALID_DATATYPE

The specified datatype is invalid.

The invalid datatype is:

%4

| | |
|-----------------------|-------------------|
| Event number | 21 |
| Event synopsis | Invalid datatype. |
| Event type | Warning |

AO_INVALID_ELEMENT

The element is not valid in this context.

| | |
|-----------------------|------------------|
| Event number | 22 |
| Event synopsis | Invalid element. |
| Event type | Error |

AO_INVALID_LENGTH

The given length is invalid. More details are:

%4

| | |
|-----------------------|-----------------|
| Event number | 23 |
| Event synopsis | Invalid length. |
| Event type | Warning |

AO_INVALID_ORDINALNUMBER

The ordinal number is either already used or less than zero.

| | |
|-----------------------|-------------------------|
| Event number | 24 |
| Event synopsis | Invalid ordinal number. |
| Event type | Warning |

AO_INVALID_RELATION

The found relation between two elements is unknown. There is no description about this relation in the ASAM base model. The base ID of the application elements can be wrong or an application defined relation is found.

Relation found from:%t%4

The relation is ignored.

| | |
|-----------------------|---------------|
| Event number | 25 |
| Event synopsis | Invalid type. |
| Event type | Warning |

AO_INVALID_RELATION_RANGE

The specified relation range is invalid.

| | |
|-----------------------|-------------------------|
| Event number | 26 |
| Event synopsis | Invalid relation range. |
| Event type | Warning |

AO_INVALID_RELATION_TYPE

Invalid relation type.

| | |
|-----------------------|------------------------|
| Event number | 27 |
| Event synopsis | Invalid relation type. |
| Event type | Error |

AO_INVALID_RELATIONSHIP

The specified relationship is invalid.

| | |
|-----------------------|-----------------------|
| Event number | 28 |
| Event synopsis | Invalid relationship. |
| Event type | Warning |

AO_INVALID_SET_TYPE

The specified set-type is invalid.

| | |
|-----------------------|-------------------|
| Event number | 29 |
| Event synopsis | Invalid set-type. |
| Event type | Warning |

AO_INVALID_SMATLINK

The submatrix link is invalid.

| | |
|-----------------------|-------------------------|
| Event number | 30 |
| Event synopsis | Invalid submatrix link. |
| Event type | Warning |

AO_INVALID_SUBMATRIX

The specified submatrix is invalid.

More details: %4

| | |
|-----------------------|--------------------|
| Event number | 31 |
| Event synopsis | Invalid submatrix. |
| Event type | Warning |

AO_IS_BASE_ATTRIBUTE

The attribute is an base attribute.

| | |
|-----------------------|------------------------------|
| Event number | 32 |
| Event synopsis | Attribute is base attribute. |
| Event type | Error |

AO_IS_BASE_RELATION

Properties of base relations may not be changed.

| | |
|-----------------------|--|
| Event number | 33 |
| Event synopsis | Unable to modify base relation properties. |
| Event type | Warning |

AO_IS_MEASUREMENT_MATRIX

It is not allowed to modify composed measurement matrixes.

| | |
|-----------------------|---|
| Event number | 34 |
| Event synopsis | Unable to modify composed measurement matrixes. |
| Event type | Warning |

AO_MATH_ERROR

A computation error occurred.

| | |
|-----------------------|--------------------|
| Event number | 35 |
| Event synopsis | Computation error. |
| Event type | Warning |

AO_MISSING_APPLICATION_ELEMENT

The application element is missing.

| | |
|-----------------------|------------------------------|
| Event number | 36 |
| Event synopsis | Missing application element. |
| Event type | Error |

AO_MISSING_ATTRIBUTE

The application structure check has detected an application element that does not have all attributes required by the base structure.

The missing attribute is: %4

| | |
|-----------------------|--------------------------------|
| Event number | 37 |
| Event synopsis | Missing application attribute. |
| Event type | Error |

AO_MISSING_RELATION

The application structure check has detected an application element that does not have all relations required by the base structure.

The missing relation is: %4

| | |
|-----------------------|-------------------------------|
| Event number | 38 |
| Event synopsis | Missing application relation. |
| Event type | Error |

AO_MISSING_VALUE

An obligatory value is missing.

| | |
|-----------------------|---------------------------|
| Event number | 39 |
| Event synopsis | Missing obligatory value. |
| Event type | Warning |

AO_NO_MEMORY

There is no more memory available.

| | |
|-----------------------|---------------------------|
| Event number | 40 |
| Event synopsis | No more memory available. |
| Event type | Error |

AO_NO_PATH_TO_ELEMENT

The application structure check has detected an application element that cannot be reached via an ASAM path. The element is not properly hooked into the application structure.

| | |
|-----------------------|---------------------------------|
| Event number | 41 |
| Event synopsis | No path to application element. |
| Event type | Error |

AO_NOT_FOUND

The requested object was not found.

The object searched for was: <%4>

| | |
|-----------------------|-------------------|
| Event number | 42 |
| Event synopsis | Object not found. |
| Event type | Warning |

AO_NOT_IMPLEMENTED

This feature is not yet implemented.

The not implemented feature is: <%4>

Please inform the developers which features is required.

| | |
|-----------------------|------------------------------|
| Event number | 43 |
| Event synopsis | Feature not yet implemented. |
| Event type | Warning |

AO_NOT_UNIQUE

This error occurs if the instances of a property are required to be unique.

%4

| | |
|-----------------------|-----------------------------|
| Event number | 44 |
| Event synopsis | Attribute value not unique. |
| Event type | Warning |

AO_OPEN_MODE_NOT_SUPPORTED

The requested open mode is not supported.

| | |
|-----------------------|--------------------------|
| Event number | 45 |
| Event synopsis | Open mode not supported. |
| Event type | Error |

AO_SESSION_LIMIT_REACHED

The number of sessions is limited for this server. No more sessions available.

Try again later.

| | |
|-----------------------|------------------------|
| Event number | 46 |
| Event synopsis | Session limit reached. |
| Event type | Error |

AO_SESSION_NOT_ACTIVE

The requested session is not active. It may have been closed earlier.

Anyway: You are beating a dead horse!

| | |
|-----------------------|---------------------------|
| Event number | 47 |
| Event synopsis | Session no longer active. |
| Event type | Error |

AO_TRANSACTION_ALREADY_ACTIVE

Tried to start a transaction in a session where a transaction is already active. Please check the calling program.

| | |
|-----------------------|-----------------------------|
| Event number | 48 |
| Event synopsis | Transaction already active. |
| Event type | Warning |

AO_TRANSACTION_NOT_ACTIVE

Tried to changed the ASAM ODS data storage without starting a transaction. Start a transaction before you create or modify any data in the ASAM ODS data storage. When you commit the transaction the changes become permanent and visible for the other users.

| | |
|-----------------------|-------------------------|
| Event number | 49 |
| Event synopsis | Transaction not active. |
| Event type | Warning |

AO_HAS_BASE_RELATION

Base relation found. It is not allowed to modify the relationtype, -range or -ship of an application relation derived from a base relation.

The name of the application relation is: %4

| | |
|-----------------------|----------------------|
| Event number | 50 |
| Event synopsis | Base relation found. |
| Event type | Error |

AO_HAS_BASE_ATTRIBUTE

Base attribute found. It is not allowed to modify the datatype, unique- or obligatory flag .

The name of the application attribute is: %4

| | |
|-----------------------|-----------------------|
| Event number | 51 |
| Event synopsis | Base attribute found. |
| Event type | Error |

AO_UNKNOWN_UNIT

The physical unit is unknown. The given unit was not found as an instance name of the application element derived from AoUnit.

Name of the unit: %4

| | |
|-----------------------|------------------------|
| Event number | 52 |
| Event synopsis | Unknown physical unit. |
| Event type | Warning |

AO_NO_SCALING_COLUMN

The given column is not a scaling column. The method expects a scaling column as input column.

| | |
|-----------------------|------------------------------|
| Event number | 53 |
| Event synopsis | Column is no scaling column. |
| Event type | Error |

AO_QUERY_TYPE_INVALID

The server does not support the specified query language type.

Request query language: %4

| | |
|-----------------------|---------------------|
| Event number | 54 |
| Event synopsis | Invalid query type. |
| Event type | Error |

AO_QUERY_INVALID

Some error in the query string or some inconsistency between the return type of the query string and the result type specified by parameter "QueryResultType" has been detected.

%4

| | |
|-----------------------|----------------|
| Event number | 55 |
| Event synopsis | Invalid query. |
| Event type | Error |

AO_QUERY_PROCESSING_ERROR

Some error occurred during the execution of the query.

| | |
|-----------------------|-------------------------|
| Event number | 56 |
| Event synopsis | Query processing error. |
| Event type | Error |

AO_QUERY_TIMEOUT_EXCEEDED

It was not possible to execute the query within the time limit set by parameter "MaxDuration".

maxDuration = %4

| | |
|-----------------------|----------------|
| Event number | 57 |
| Event synopsis | Query timeout. |
| Event type | Error |

AO_QUERY_INCOMPLETE

The execution of the query was not yet completed.

| | |
|-----------------------|--------------------------|
| Event number | 58 |
| Event synopsis | Query not yet completed. |
| Event type | Informational |

AO_QUERY_INVALID_RESULTTYPE

The requested result type of the query do no match with the previous definition of the result type.

%4

| | |
|-----------------------|----------------------|
| Event number | 59 |
| Event synopsis | Invalid result type. |
| Event type | Warning |

AO_INVALID_VALUEMATRIX_STRUCTURE

The server is unable to create the valuematrix due to the data of the measurement

- if there are no independent column
- if there are different independent columns
- if there are submatrices with more than one independent column.

Reason: %4

| | |
|-----------------------|---|
| Event number | 60 |
| Event synopsis | Unable to create the value matrix of the measurement. |
| Event type | Warning |

AO_LAST_ODS_ERROR

This code must always be the last standard ASAM ODS error code.

| | |
|-----------------------|------------------------------------|
| Event number | 100 |
| Event synopsis | Last ASAM-ODS standard error code. |
| Event type | Informational |

AO_HAS_ELEMENTS

Elements are present and the requested operation cannot be performed when elements are present.

| | |
|-----------------------|-----------------------|
| Event number | 902 |
| Event synopsis | Elements are present. |
| Event type | Error |

AO_SYNTAX_ERROR_IN_ASAMPATH

A syntax error in the ASAM path was found. Please correct the ASAM path. See at the parameter which error is found.

Given ASAM Path is :

%4

| | |
|-----------------------|----------------------------|
| Event number | 903 |
| Event synopsis | Syntax error in ASAM path. |
| Event type | Warning |

AO_UNABLE_OPEN_FILE

Unable to open file.

Filename:%t%4

| | |
|-----------------------|----------------------|
| Event number | 904 |
| Event synopsis | Unable to open file. |
| Event type | Error |

AO_FILE_OPEN

The file is open.

Filename:%t%4

| | |
|-----------------------|---------------|
| Event number | 905 |
| Event synopsis | File is open. |
| Event type | Informational |

AO_CONNECT_EVENTLOG

This event is a normal event and no action has to be taken.

The program is started with the following command:

%4

| | |
|-----------------------|--|
| Event number | 1000 |
| Event synopsis | Program connect to and initialize the event log. |
| Event type | Informational |

AO_CLOSE_EVENTLOG

This event is a normal event and no action has to be taken.

| | |
|-----------------------|--------------------------|
| Event number | 1001 |
| Event synopsis | Program close event log. |
| Event type | Informational |

AO _SUPPRESS _REPORT

The previous event is reported more than 10 (MAX_ERROR) times. The report of the event will be suppressed automatically. All events will be suppressed until another event is reported.
Suppressed event: %t%4

| | |
|-----------------------|--|
| Event number | 1002 |
| Event synopsis | Automatic suppress of event reporting. |
| Event type | Warning |

AO _REPORT _ALL _EVENT

Finished the automatic suppression of event reporting.

| | |
|-----------------------|--|
| Event number | 1003 |
| Event synopsis | Finished automatic suppression of event reporting. |
| Event type | Warning |

AO _THREAD _START

A thread is started. This is only a debug message, no further action required.

| | |
|-----------------------|-----------------|
| Event number | 1004 |
| Event synopsis | Thread started. |
| Event type | Informational |

AO _THREAD _STOP

A thread is stopped. This is only a debug messages, no further action required.

| | |
|-----------------------|-----------------|
| Event number | 1005 |
| Event synopsis | Thread stopped. |
| Event type | Informational |

AO _ERROR _THREAD _CREATE

The server is unable to start a new thread. The last request will run in single threaded mode.
Error messages: %4

| | |
|-----------------------|--------------------------------|
| Event number | 1006 |
| Event synopsis | Unable to create a new thread. |
| Event type | Error |

AO _DRIVER _LOAD _SUCCESSFUL

The driver <%4> is loaded successful.

| | |
|-----------------------|----------------------------------|
| Event number | 1100 |
| Event synopsis | The driver is loaded successful. |
| Event type | Informational |

AO _EVENT

This is just a trace message. Refer to the previously reported event.

| | |
|-----------------------|------------------------|
| Event number | 1500 |
| Event synopsis | Trace to error origin. |
| Event type | Informational |

AO_UNKNOWN_UNICODE_CHAR

The conversion expects unicode characters with the high byte to be zero. A unicode character has been found with another high byte code.

Unicode character: %t%4

| | |
|-----------------------|--------------------------|
| Event number | 2500 |
| Event synopsis | Wrong unicode character. |
| Event type | Warning |

AO_UNKNOWN_KEYWORD_VALUE

The value of the keyword in the INI-File is unknown. The default value of the keyword is used.

The unknown value is: %4

| | |
|-----------------------|------------------------|
| Event number | 2501 |
| Event synopsis | Unknown keyword value. |
| Event type | Warning |

AO_NO_OBJECT

No object defined. NULL-pointer as input parameter.

Expected object type: %t%4

| | |
|-----------------------|--------------------|
| Event number | 3000 |
| Event synopsis | No object defined. |
| Event type | Error |

AO_WRONG_OBJECT

Type of expected object and input object: %t%4

| | |
|-----------------------|--------------------|
| Event number | 3001 |
| Event synopsis | Wrong object type. |
| Event type | Error |

AO_UNKNOWN_DATATYPE

Type of data is unknown.

unknown Type: %t%4

| | |
|-----------------------|--------------------|
| Event number | 3002 |
| Event synopsis | Unknown data type. |
| Event type | Error |

AO_NO_ARRAY

The object requires an array for the local storage of the elements or objects. There is no array defined in the object.

Name of object: %t%4

| | |
|-----------------------|------------------|
| Event number | 3003 |
| Event synopsis | No array found . |
| Event type | Error |

AO_ARRAY_ERROR

Some error occurred in the array utility.

Name of object: %t%4

| | |
|-----------------------|--------------------------------------|
| Event number | 3004 |
| Event synopsis | Error occurred in the array utility. |
| Event type | Error |

AO_NO_VALUES_ARRAY

The object requires an array for the local storage of the elements or objects. There are no values in the array stored in this object.

Name of object: %t%4

| | |
|-----------------------|---------------------|
| Event number | 3005 |
| Event synopsis | No values in array. |
| Event type | Error |

AO_NO_COPY_FUNCTION

The object needs a copy function. There is no copy function defined in the object.

Name of object: %t%4

| | |
|-----------------------|---------------------------------|
| Event number | 3006 |
| Event synopsis | No array copy function defined. |
| Event type | Error |

AO_NO_VALUE

The object requires a value. There is no value defined in this object.

Name of object: %t%4

| | |
|-----------------------|-----------------|
| Event number | 3007 |
| Event synopsis | No value found. |
| Event type | Error |

AO_IS_READONLY

The object is readonly. It is not allowed to modify this object.

Name of object: %t%4

| | |
|-----------------------|---------------------|
| Event number | 3008 |
| Event synopsis | Object is readonly. |
| Event type | Warning |

AO_NO_NAME

The object has no name.

The object without a name has following description: %4

| | |
|-----------------------|---------------------|
| Event number | 3009 |
| Event synopsis | Object has no name. |
| Event type | Error |

AO_NO_PUT_OBJECT

The object has no put object function.

Name of object: %t%4

| | |
|-----------------------|-----------------------------------|
| Event number | 3010 |
| Event synopsis | No put object function available. |
| Event type | Error |

AO_NO_DISCONNECT

The object has no disconnect function.

Name of object: %t%4

| | |
|-----------------------|-----------------------------------|
| Event number | 3011 |
| Event synopsis | No disconnect function available. |
| Event type | Error |

AO_NO_OPENENV

The object has no open environment function.

Name of object:%t%4

| | |
|-----------------------|---|
| Event number | 3013 |
| Event synopsis | No open environment function available. |
| Event type | Error |

AO_NO_GET_OBJECT

The object has no get object function.

Name of object:%t%4

| | |
|-----------------------|-----------------------------------|
| Event number | 3014 |
| Event synopsis | No get object function available. |
| Event type | Error |

AO_NO_DRIVERNAME

Could not determine the name of the driver from the driver directory.

Directory:%t%4

| | |
|-----------------------|--------------------------------|
| Event number | 3015 |
| Event synopsis | Unable to determine drivename. |
| Event type | Error |

AO_NO_SHAREOBJECT

Could not determine the name of the shared object of the driver.

Driver:%t%4

| | |
|-----------------------|---|
| Event number | 3016 |
| Event synopsis | Unable to create driver shared object name. |
| Event type | Error |

AO_LOAD_DRIVER

Look at the next error event for more detailed system information.

Driver:%t%4

| | |
|-----------------------|------------------------|
| Event number | 3017 |
| Event synopsis | Could not load driver. |
| Event type | Error |

AO_ERROR_MSG

The system error message of the previous error event is:

%4

| | |
|-----------------------|-----------------------|
| Event number | 3018 |
| Event synopsis | System error message. |
| Event type | Error |

AO_NO_VALUE_SIZE

The size of the value is undefined.

Value type:%t%4

| | |
|-----------------------|--------------------------|
| Event number | 3019 |
| Event synopsis | Size of value undefined. |
| Event type | Error |

AO_OUT_OF_RANGE

The index must be in the range from 0 to max. The max index value is not included. (0 <= index < max)

Used index and max index value:%t%4

| | |
|-----------------------|---------------------|
| Event number | 3020 |
| Event synopsis | Index out of range. |
| Event type | Error |

AO_NO_DRIVER

The service does not have a driver.

| | |
|-----------------------|---------------------------------|
| Event number | 3021 |
| Event synopsis | No driver in service available. |
| Event type | Error |

AO_NO_ENVIRONMENT

The service does not have an environment.

| | |
|-----------------------|--------------------------------------|
| Event number | 3022 |
| Event synopsis | No environment in service available. |
| Event type | Error |

AO_UNABLE_LOAD_DRIVER

Unable to load the driver for the service connect. The name or directory of the driver are possibly wrong.

Name of driver: %t%4

| | |
|-----------------------|------------------------|
| Event number | 3023 |
| Event synopsis | Unable to load driver. |
| Event type | Error |

AO_IS_SAME_POINTER

The pointer of the old and new value are identical. The value will not be set. Set the new value would cause to dirty memory because the function frees the old pointer and this will destroy the new value.

| | |
|-----------------------|---------------------------|
| Event number | 3025 |
| Event synopsis | Identical pointers found. |
| Event type | Warning |

AO_NO_BASEREF

The are no base references available in the base element.

| | |
|-----------------------|--------------------------|
| Event number | 3026 |
| Event synopsis | No base reference found. |
| Event type | Error |

AO_NO_BASEATTR

The are no base attributes available in the base element.

| | |
|-----------------------|---------------------------|
| Event number | 3027 |
| Event synopsis | No base attributes found. |
| Event type | Error |

AO_NO_ATTROBJ

There is no attribute object available in element.

| | |
|-----------------------|----------------------------|
| Event number | 3028 |
| Event synopsis | No attribute object found. |
| Event type | Error |

AO_NO_REFOBJECT

There is no reference object available in element.

| | |
|-----------------------|----------------------|
| Event number | 3029 |
| Event synopsis | No reference object. |
| Event type | Error |

AO_NO_APPLELEM

There is no application element object available in the instance element.

| | |
|-----------------------|-------------------------|
| Event number | 3030 |
| Event synopsis | No application element. |
| Event type | Error |

AO_ONLY_ONE_ENV

Only one environment application element of this type is allowed. There is already an application element of the same type in the application structure.

| | |
|-----------------------|---|
| Event number | 3031 |
| Event synopsis | Only one environment application element allowed. |
| Event type | Error |

AO_NO_BASEELEM

The object has no base element. No base element found.

The object which was searched for the base element is:

%4

| | |
|-----------------------|------------------------|
| Event number | 3032 |
| Event synopsis | No base element found. |
| Event type | Error |

AO_WRONG_BA_DATATYPE

The base attribute has a wrong datatype name.

The wrong data type name is: %t%4

Allowed names are:

%tUnknown

%tReal4

%tReal8

%tInt2

%tInt4

%tInt8

%tBoolean

%tByte

%tString

%tWideString

%tDate

%tByteStream

| | |
|-----------------------|--------------------------------|
| Event number | 3033 |
| Event synopsis | Wrong base attribute datatype. |
| Event type | Error |

AO_NO_SERVICE

There is no service available in the ASAM-C object.

| | |
|-----------------------|-------------------|
| Event number | 3034 |
| Event synopsis | No service found. |
| Event type | Error |

AO_NO_SRV_FOUND

There was no matching service found in the ASAM-C object.

Search for service:%t%4

| | |
|-----------------------|----------------------------|
| Event number | 3035 |
| Event synopsis | No matching service found. |
| Event type | Error |

AO_NO_DESTRUCTION

The number of calls of the function `Cac_loadeddrivers` with creation flag and the destruction flag do not match. There are more calls with the destruction flag than calls with the creation flag. Do not destruct drivers which are not created.

| | |
|-----------------------|---|
| Event number | 3036 |
| Event synopsis | More destruction calls than creation calls. |
| Event type | Error |

AO_UNABLE_WRITE_FILE

Unable to write to file.

Filename:%t%4

| | |
|-----------------------|--------------------------|
| Event number | 3038 |
| Event synopsis | Unable to write to file. |
| Event type | Error |

AO_NO_INIT_FILE

No initialization file loaded.

Filename:%t%4

| | |
|-----------------------|--------------------------------|
| Event number | 3039 |
| Event synopsis | No initialization file loaded. |
| Event type | Error |

AO_DIM_ALREADY_SET

The dimension of the matrix is already set. You cannot modify the dimension of a matrix.

If you would like to change the dimension of a matrix, create a new matrix with the new dimension and copy the elements of the old matrix into the new matrix. Then you can delete the old matrix.

Name of matrix:%t%4

| | |
|-----------------------|------------------------|
| Event number | 3040 |
| Event synopsis | Dimension already set. |
| Event type | Error |

AO_NO_MATRIX

The object requires a Value Matrix. There is no matrix defined in this object.

Name of object:%t%4

| | |
|-----------------------|------------------------|
| Event number | 3041 |
| Event synopsis | No Value Matrix found. |
| Event type | Error |

AO_NO_SEQUENCE

The object requires a sequence. There is no sequence defined in this LocalColumn object. Some previous error must have occurred and was ignored afterwards.

Name of LocalColumn object:%t%4

| | |
|-----------------------|-----------------------------|
| Event number | 3042 |
| Event synopsis | No sequence in LocalColumn. |
| Event type | Error |

AO_NO_COLLECTION

The object requires a collection. There is no collection defined in this submatrix object. Some previous error has occurred and afterwards ignored.

Name of the sub matrix object: %t%4

| | |
|-----------------------|-----------------------------|
| Event number | 3043 |
| Event synopsis | No collection in submatrix. |
| Event type | Error |

AO_WRONG_NUMBER_IN_COLUMN

The number of elements in a LocalColumn must be the same for all LocalColumns of the submatrix. The number of elements in the new LocalColumn differs from the number of elements in the previous stored columns.

Name of the submatrix object: %t%4

| | |
|-----------------------|--|
| Event number | 3044 |
| Event synopsis | Wrong number of elements in LocalColumn. |
| Event type | Error |

AO_NO_SUBMAT

The object requires a submatrix. There is no submatrix defined in this object.

The element where the submatrix was expected: %4

| | |
|-----------------------|-------------------------|
| Event number | 3045 |
| Event synopsis | No submatrix available. |
| Event type | Error |

AO_NO_MEA_BASEELEM

The type of the base element is not measurement. The instance element can only contain submatrixes when the type of the instance element is measurement.

%4

| | |
|-----------------------|----------------------------------|
| Event number | 3046 |
| Event synopsis | Base element is not measurement. |
| Event type | Warning |

AO_NO_ID

The application element has no attribute with a base attribute 'Id' or the instance element has no value for the attribute derived from the base attribute 'Id'.

Element with no ID is: %t%4

| | |
|-----------------------|---------------------------|
| Event number | 3047 |
| Event synopsis | No base element ID found. |
| Event type | Error |

AO_NO_INSTELEM

There is no instance element available.

No instance for: %t%4

| | |
|-----------------------|--------------------------------|
| Event number | 3048 |
| Event synopsis | No instance element available. |
| Event type | Informational |

AO_NO_REFERENCE_FOUND

The instance element has a reference to another instance. The referenced instance was not found in the instance collection of the target application element. Instance of application element with reference position and referenced ID:

%t%4

| | |
|-----------------------|---------------------|
| Event number | 3049 |
| Event synopsis | No reference found. |
| Event type | Error |

AO_ALREADY_IN_LIST

The object is already in the list. The object is not inserted into the list.

| | |
|-----------------------|-------------------------|
| Event number | 3050 |
| Event synopsis | Object already in list. |
| Event type | Informational |

AO_WRONG_DATE

Format of date or time is wrong. The ASAM format is ČYYYYMMDDŠ or ČYYYYMMDDHHMMSSŠ.

The date or time is:%t%4

| | |
|-----------------------|--------------------|
| Event number | 3051 |
| Event synopsis | Wrong date format. |
| Event type | Error |

AO_NO_LC_FOUND

The requested LocalColumn was not found.

Search for:%t%4

| | |
|-----------------------|-----------------------|
| Event number | 3053 |
| Event synopsis | No LocalColumn found. |
| Event type | Error |

AO_NO_TARGET_FOUND

The requested target application element isnŠt found. There is a reference in the application model to an application element which is unknown.

Search for application element:%t%4

| | |
|-----------------------|--------------------------------------|
| Event number | 3054 |
| Event synopsis | No target application element found. |
| Event type | Warning |

AO_UNABLE_INIT_SOCKET

Unable to initialize the Windows socket DLL.

%4

| | |
|-----------------------|--|
| Event number | 3055 |
| Event synopsis | Unable to initialize windows socket DLL. |
| Event type | Error |

AO_WRONG_ASAMPATH

The specified ASAM ODS path is wrong, no instance is found for the specified ASAM path.

Specified ASAM ODS path:%t%4

| | |
|-----------------------|----------------------|
| Event number | 3056 |
| Event synopsis | Wrong ASAM ODS path. |
| Event type | Warning |

AO_NO_UNIQUE_ASAMPATH

The specified ASAM ODS path is not for a unique instance. The data in the server is not ASAM ODS conform.

Specified ASAM ODS path:%t%4

| | |
|-----------------------|---------------------------|
| Event number | 3057 |
| Event synopsis | ASAM ODS path not unique. |
| Event type | Warning |

AO_NO_DATATYPE

The instance of the measurement quantity has no attribute derived from the base attribute `UDatatype`. The attribute `UDatatype` is required for the ASAM ODS servers to store the Datatype of the LocalColumns. The LocalColumn cannot be saved or restored from the data storage.

Name of the instance of the measurement quantity: %t%4

The convert file might be wrong or not activated, see also the INI-File variable 'CONVERT-FILE'.

| | |
|-----------------------|---------------------------------------|
| Event number | 3058 |
| Event synopsis | Measurement quantity has no datatype. |
| Event type | Error |

AO_NO_LC_FOR_MEQ

The instance of the measurement quantity has no corresponding LocalColumn in the database table `Usvcval`. Normally all measurement quantities have a corresponding LocalColumn. Measurement quantities are found in the database with no LocalColumns.

ID of the instance of the measurement quantity: %t%4

| | |
|-----------------------|--|
| Event number | 3059 |
| Event synopsis | Measurement quantity has no corresponding LocalColumn. |
| Event type | Warning |

AO_NOTHING_TO_SET

A set request is given, but the function could not recognize the number of bytes to set.

Possible reason:

The INI-File variable `STR_VALBLOBLLEN` is not set at the service for the database storages.

| | |
|-----------------------|-----------------|
| Event number | 3060 |
| Event synopsis | Nothing to set. |
| Event type | Error |

AO_WRONG_ENVIRONMENT

The ID of the requested environment is wrong.

| | |
|-----------------------|-----------------------|
| Event number | 3061 |
| Event synopsis | Wrong environment ID. |
| Event type | Error |

AO_NO_RELATION_FOUND

There is no relation between the two given application elements.

The two application elements are: %t%4.

| | |
|-----------------------|---|
| Event number | 3062 |
| Event synopsis | No relation between application elements. |
| Event type | Error |

AO_INVALID_REQUEST

The request of the function has invalid parameter.

Detail information about the invalid parameter is:

%4

| | |
|-----------------------|------------------|
| Event number | 3063 |
| Event synopsis | Invalid request. |
| Event type | Error |

AO_WRONG_DATATYPE

The data type does not match the data type of the object or the structure.

Detailed information: %4

| | |
|-----------------------|------------------|
| Event number | 3064 |
| Event synopsis | Wrong data type. |
| Event type | Error |

AO_ORPHAN_APPLICATION_ELEMENTS

After creating the application model hierarchy there are elements left from the application model. When the model is correct and complete there should be no orphan elements left.

Number of elements left over: %4

| | |
|-----------------------|---------------------------------------|
| Event number | 3065 |
| Event synopsis | Orphan application elements detected. |
| Event type | Warning |

AO_NO_FATHER

The element has no father. If the element is an application element there is no relation in the application element to a father application element. Please check and correct the application model. If the element is an instance element there is no predecessor found for the given instance element.

The element: %t %4

| | |
|-----------------------|------------------------------------|
| Event number | 3066 |
| Event synopsis | Application element has no father. |
| Event type | Warning |

AO_NO_UNIQUE_INSTANCE

There is no unique instance found for the given name. The application element has more than one instance matching to the given name. No instance returned.

Name of instance and number of duplicates: %t %4

| | |
|-----------------------|---------------------------|
| Event number | 3067 |
| Event synopsis | No unique instance found. |
| Event type | Warning |

AO_NO_SUB_BASEELEM

The type of the base element is not a submatrix. An instance of a submatrix is expected.

| | |
|-----------------------|-------------------------------|
| Event number | 3068 |
| Event synopsis | Base element is no submatrix. |
| Event type | Warning |

AO_NO_LCC_BASEELEM

The type of the base element is not a LocalColumn. An instance of a LocalColumn is expected.

| | |
|-----------------------|---------------------------------|
| Event number | 3069 |
| Event synopsis | Base element is no LocalColumn. |
| Event type | Warning |

AO_WRONG_BASEELEM

A special type of element (application or instance) is requested. The type of the element is wrong.

The expected type and input type are: %4

| | |
|-----------------------|---------------------|
| Event number | 3070 |
| Event synopsis | Wrong element type. |
| Event type | Error |

AO_NOT_IN_SAME_STRUCTURE

An application element is set to an application relation. The application element is not in the same application structure as the application relation. Only elements of the same structure can be set to a relation. The application relation is the connection between two elements in an application structure.

| | |
|-----------------------|--|
| Event number | 3071 |
| Event synopsis | Relation does not belong to application structure. |
| Event type | Error |

AO_NO_LOCALCOLUMN

The column has no Athos LocalColumn. Internal error or implementation error occurred. The allocation of memory failed.

| | |
|-----------------------|-----------------------|
| Event number | 3072 |
| Event synopsis | No Athos LocalColumn. |
| Event type | Error |

AO_NO_COLUMN

There is no LocalColumn defined in this object.
The object where a LocalColumn is expected: %4

| | |
|-----------------------|------------------------------|
| Event number | 3073 |
| Event synopsis | No LocalColumn in submatrix. |
| Event type | Error |

AO_NO_APPLELEMS

The list function of the application element cannot return a list because there are no application elements stored in the environment. This can happen when a driver opens a new data storage.

Name of the environment: %4

| | |
|-----------------------|--|
| Event number | 3076 |
| Event synopsis | No application element in application structure. |
| Event type | Warning |

AO_NO_SMATLINK

The object has no submatrix links. The requested operation cannot be performed.

| | |
|-----------------------|--------------------|
| Event number | 3077 |
| Event synopsis | No submatrix link. |
| Event type | Error |

AO_MORE_INDEP_CHANNEL

To build the valuematrix at the measurement there are no submatlinks defined and there are more than one submatrixes. With the automatic build function of the valuematrix exactly one independent channel is expected. These independent channels must be in all the submatrixes of the measurement. There are none or more than one independent channels found, so the valuematrix cannot be built automatically. Please use the submat links to build a valuematrix. The instance is: %4

| | |
|-----------------------|---|
| Event number | 3078 |
| Event synopsis | More than one independent channel in submatrixes. |
| Event type | Error |

AO_NO_INSTANCE_ATTRIBUTE

It is only allowed to remove or rename an instance attribute. Attributes derived from an application attribute cannot be removed or renamed.

| | |
|-----------------------|---|
| Event number | 3080 |
| Event synopsis | Attribute is not an instance attribute. |
| Event type | Error |

AO_RELATED_INST_LEFT

After removing an instance element there are still related instances left. Delete first the relation then try again.

| | |
|-----------------------|-------------------------|
| Event number | 3081 |
| Event synopsis | Related instances left. |
| Event type | Error |

AO_WRONG_APPLELEM

The application elements of the instance elements and the relation do not match. Try to access a relation at the instance and the relation has no connection to the application element of the instance.

%4

| | |
|-----------------------|------------------------------------|
| Event number | 3082 |
| Event synopsis | Application elements do not match. |
| Event type | Error |

AO_FOUND_DIFFERENCE

A difference has been found in a compare function. The difference is: %4

| | |
|-----------------------|-------------------|
| Event number | 3083 |
| Event synopsis | Difference found. |
| Event type | Error |

AO_NO_TARGET

A reference was found without a target element. The name of the reference is: %4

| | |
|-----------------------|-----------------------------------|
| Event number | 3084 |
| Event synopsis | Reference without target element. |
| Event type | Warning |

AO_UNKNOWN_RELATIONSHIP

The relationship in the relation is unknown.

| | |
|-----------------------|-----------------------|
| Event number | 3085 |
| Event synopsis | Unknown relationship. |
| Event type | Error |

AO_NO_INVERSE_REFERENCE

There is no inverse reference. The inverse reference is built from the AO_BASE.HTM. After reading the base model from the file, the references are checked and for each reference the inverse reference is searched.

An error occurred reading the AO_BASE.HTM because an inverse reference was not found.

The name of the base reference is: %4

| | |
|-----------------------|-----------------------|
| Event number | 3086 |
| Event synopsis | No inverse reference. |
| Event type | Error |

AO_TO_MUCH_FATHER

The element has too many fathers. There was more than one father found for the element, please check the consistency of the data storages.

The element: %t%4

| | |
|-----------------------|---|
| Event number | 3087 |
| Event synopsis | Application element has too many fathers. |
| Event type | Warning |

AO_NO_SPACE_LEFT

There is no space left. All reserved space is used. Please send this messages to the development team.

The extended space is:

%4

| | |
|-----------------------|----------------|
| Event number | 3088 |
| Event synopsis | No space left. |
| Event type | Error |

AO_NO_PASSWORD

The user did not enter the password.

Name of the user: %4

| | |
|-----------------------|----------------------------|
| Event number | 3089 |
| Event synopsis | Username without password. |
| Event type | Error |

AO_WRONG_PASSWORD

The user did not enter the correct password.

Name of the user: <%4>

| | |
|-----------------------|-----------------|
| Event number | 3090 |
| Event synopsis | Wrong password. |
| Event type | Error |

AO_WITHOUT_PASSWORD

The base attribute 'password' was not found at an application element of AoUser. So there is no password check. If a password check is required define an application attribute derived from the base attribute "password".

| | |
|-----------------------|------------------------------|
| Event number | 3091 |
| Event synopsis | No password in data storage. |
| Event type | Informational |

AO_UNKNOWN_NUMBER_OF_VALUES

The number of values is unknown. There is no definition for the number of values. There might be another LocalColumn which defined the number of values for the submatrix.

Name of the LocalColumn: <%4>

| | |
|-----------------------|---------------------------|
| Event number | 3092 |
| Event synopsis | Unknown number of values. |
| Event type | Informational |

AO_TO_MUCH_ELEMENTS

There are too many elements found. ASAM ODS has defined that only one element of the given base type may be derived. The system expects exactly one element and got another element of the same base type.

The wrong base element is: <%4>

| | |
|-----------------------|--------------------------|
| Event number | 3093 |
| Event synopsis | Too many elements found. |
| Event type | Error |

AO_WRONG_USERNAME

The user name is not in the server.

Name of the user: <%4>

| | |
|-----------------------|--------------------|
| Event number | 3094 |
| Event synopsis | Unknown user name. |
| Event type | Error |

AO_NOT_IN_USERGROUP

The user is not in a usergroup, no access is allowed.

Name of the user: <%4>

| | |
|-----------------------|------------------------|
| Event number | 3095 |
| Event synopsis | User not in usergroup. |
| Event type | Error |

AO_UNSUPPORTED_MODE

The given mode is not supported by the program. Look for the filename which part of the software does not support, in the given mode.

The mode is: <%4>

| | |
|-----------------------|-------------------|
| Event number | 3096 |
| Event synopsis | Unsupported mode. |
| Event type | Error |

AO_WRONG_NAME

The given name is not a name which is expected.

The given name is: <%4>.

| | |
|-----------------------|-------------|
| Event number | 3097 |
| Event synopsis | Wrong name. |
| Event type | Error |

AO_DIFFERENT_ENV_NAMES

The names of the environment given in the ASAM path are different. This difference will be ignored. It is allowed to get an element from an other environment outside the current environment.

%4

| | |
|-----------------------|------------------------------|
| Event number | 3098 |
| Event synopsis | Different environment names. |
| Event type | Informational |

AO_OLD_BASE_MODEL

The base model file <%4> is too old. Please provide a current version.

| | |
|-----------------------|-----------------------|
| Event number | 3099 |
| Event synopsis | Base model out dated. |
| Event type | Error |

AO_NO_STRUCTURE

No structure defined. NULL-pointer as input parameter.

Expected structure type:%t%4

| | |
|-----------------------|-----------------------|
| Event number | 3100 |
| Event synopsis | No structure defined. |
| Event type | Error |

AO_WRONG_STRUCTURE

Type of expected structure and input structure: %t%4

| | |
|-----------------------|-----------------------|
| Event number | 3101 |
| Event synopsis | Wrong structure type. |
| Event type | Error |

AO_WRONG_LENGTH

The length of the value of the structure does not correspond to the length expected by the function.

Details: %4

| | |
|-----------------------|---------------|
| Event number | 3102 |
| Event synopsis | Wrong length. |
| Event type | Error |

AO_WRONG_CONFIG

The configuration is wrong. The variable setting in the INI-File does not match the data from storage. Please check the settings of the INI-File.

Wrong variable: %4

| | |
|-----------------------|----------------------|
| Event number | 3103 |
| Event synopsis | Wrong configuration. |
| Event type | Error |

AO_WIN32_ERROR

An error has occurred in a Win32 system function. The Win32 error message is:

%4

| | |
|-----------------------|------------------------|
| Event number | 3104 |
| Event synopsis | Error in Win32 system. |
| Event type | Error |

AO_SVCTABLE_ERROR

The content of the svc-tables of the physical storage is wrong. There are tables or columns defined in the tables svcnt or svcattr which do not exist in the database.

Detailed information: %4

| | |
|-----------------------|--------------------------------|
| Event number | 3105 |
| Event synopsis | Error in the svc-tables found. |
| Event type | Error |

AO_BASE_ATTRIBUTE_REQUIRED

The given base attribute is required for the program. The base attribute isn't available on the given element.

%4

| | |
|-----------------------|-------------------------------|
| Event number | 3106 |
| Event synopsis | A base attribute is required. |
| Event type | Error |

AO_ATTRIBUTE_AUTO_GENERATED

The attribute is automatically generated. There is no specification of the attribute at the storage, the attribute is required and automatically generated by the software. The software generates the attribute automatically. The name of the automatic generated attribute and the element is given below.

%4

| | |
|-----------------------|---|
| Event number | 3107 |
| Event synopsis | The attribute is automatically generated. |
| Event type | Informational |

AO_NO_INV_REFERENCE

There is no inverse reference in the application model. This is only a message and has no influence on the server. The inverse reference will be generated automatically by the software.
%4

| | |
|-----------------------|--------------------------------|
| Event number | 3108 |
| Event synopsis | There is no inverse reference. |
| Event type | Informational |

AO_NO_BASE_REFERENCE

The Athos Runtime System search for a base reference between the different elements. If an application reference is found and no base reference is given. Athos Runtime System tries to find a corresponding base reference. There are a lot of application models which do not tell the software the correct base reference for each application reference.

However every application reference does not have a base reference, because in the ASAM ODS base model there is no base reference between each pair of elements.

This is only a messages and has no influence of the functionality of the software. You can switch off the search for the base reference with the INI-File variable SEARCH_FOR_-BASE_REF.

| | |
|-----------------------|--|
| Event number | 3109 |
| Event synopsis | There is no base reference between the elements. |
| Event type | Informational |

AO_DEADLOCK_DETECT

There is a deadlock found, the automatic system tries to solve the deadlock.

The deadlock is found between: %4

For more information look in the log-file.

| | |
|-----------------------|--------------------|
| Event number | 3110 |
| Event synopsis | Deadlock detected. |
| Event type | Warning |

AO_WRONG_ATTRIBUTE

A special attributes is expected for this function. The function is used with another kind of attribute.

The expected special attribute is: %4

| | |
|-----------------------|------------------|
| Event number | 3111 |
| Event synopsis | Wrong attribute. |
| Event type | Warning |

AO_DIVISION_BY_ZERO

A division by zero is detected.

Detected at %4

| | |
|-----------------------|-------------------|
| Event number | 3112 |
| Event synopsis | Division by zero. |
| Event type | Warning |

AO_NULL_POINTER

NULL-pointer found in a wrapper class.

Details: %4

Expected object type:%t%4

| | |
|-----------------------|---------------------|
| Event number | 3200 |
| Event synopsis | Null pointer found. |
| Event type | Error |

AO_WRONG_FILETYPE

The type of the file is wrong. There are several checks available to check the type of a file. One of the checks failed.

The failed check is: %4

| | |
|-----------------------|------------------|
| Event number | 3300 |
| Event synopsis | Wrong file type. |
| Event type | Error |

AO_NO_BASEELEMENT

Checking the application structure the following application element has no base element. Every application elements needs a base element. If the application element is of no specific ASAM ODS base element type, at least the base element 'AoAny' must be used.

The application element without base element is: %4

| | |
|-----------------------|--|
| Event number | 3500 |
| Event synopsis | Application element has no base element. |
| Event type | Warning |

AO_WRONG_BASEATTR

Checking the application structure the following application element has an attribute which has a base attribute type which does not match one of the base attributes of the base element from the application element.

%4

| | |
|-----------------------|---|
| Event number | 3501 |
| Event synopsis | Application attribute of wrong base attribute type. |
| Event type | Warning |

AO_NO_TIMESTAMP

The LocalColumn has no timetsamp. Something went wrong within the software.

Please check the calling sequence of the software.

The name of the LocalColumn is: %4

| | |
|-----------------------|--------------------------|
| Event number | 3600 |
| Event synopsis | Object has no timestamp. |
| Event type | Warning |

AOP_UNEXPECTED_STATE

Protocol level function returned unexpected result state. The reason may be a severe problem in the protocol level server or a wrong version of the server.

%4

| | |
|-----------------------|---|
| Event number | 4000 |
| Event synopsis | Protocol level function returned unexpected result state. |
| Event type | Error |

AOP_RETVAL_ZERO

Protocol level function returned a zero. This error is caused by a programming error in the protocol level. Normally the server returns at least some error state or information about what happened. If this error is reproduceable please inform the developers.

The probable reason is that there is no authorization for the user / computer to use rpc. The check of the authorization in the rpc-library is not implemented for all the operating system.

| | |
|-----------------------|--|
| Event number | 4001 |
| Event synopsis | Protocol level function returned zero. |
| Event type | Error |

AOP_DELETE_NOTHING

There was a delete request without any information what to delete. The delete request was ignored.

| | |
|-----------------------|------------------------------|
| Event number | 4002 |
| Event synopsis | Delete request without data. |
| Event type | Error |

AOP_DT_MISMATCH

Datatype mismatch in application attribute: %4

| | |
|-----------------------|--------------------|
| Event number | 4003 |
| Event synopsis | Datatype mismatch. |
| Event type | Warning |

AOP_NO_ENVIRONMENT

The first application element received from the server is not of the type environment. The driver overwrites the unknown type of the application element to environment.

Server: %t%4

| | |
|-----------------------|--|
| Event number | 4004 |
| Event synopsis | First application element not of type environment. |
| Event type | Warning |

AOP_NO_LOCALCOLUMN

No LocalColumn received from the server. According to the received information there should be data for LocalColumn, when trying to read this data no error messages occurs and also no data is delivered.

| | |
|-----------------------|--------------------------------------|
| Event number | 4005 |
| Event synopsis | No LocalColumn received from server. |
| Event type | Error |

AOP_UNKNOWN_DATATYPE

The data type given from the protocol level server (2 or 3) is unknown by the driver. The attribute or LocalColumn is used within Athos with the data type "Unknown".

Retrieved datatype from the server: %4

| | |
|-----------------------|--|
| Event number | 4006 |
| Event synopsis | Data type from protocol level unknown. |
| Event type | Warning |

AO_FILEVERSION_NOT_SUPPORTED

The file version found in the datastorage is not supported by the driver.

The driver is unable to interpret the requested file.

Found fileversion is: %4

| | |
|-----------------------|---------------------------------------|
| Event number | 4007 |
| Event synopsis | File version not supported by driver. |
| Event type | Warning |

AO_FILETYPE_NOT_SUPPORTED

The type of the file found in the datastorage is not supported by the driver.

The driver is unable to interpret the requested file.

Found type of file is: %4

| | |
|-----------------------|------------------------------------|
| Event number | 4008 |
| Event synopsis | File type not supported by driver. |
| Event type | Warning |

AOP_SVC_ERROR

An RPC-service error has been detected.

The message is:

%4

| | |
|-----------------------|-----------------------------|
| Event number | 4010 |
| Event synopsis | RPC-service error detected. |
| Event type | Error |

AO_NOT_CLOSED

The query is opened again, but the previous query isn't closed until now. There is only one opened query allowed.

%4

| | |
|-----------------------|-------------------------|
| Event number | 4011 |
| Event synopsis | The query isn't closed. |
| Event type | Warning |

AO_DRIVER_CRASHED

Some error occurred in the driver. The driver crashed with a system exception, such as "access violation". Please check the code of the driver.

Name of driver: %t%4

| | |
|-----------------------|-----------------|
| Event number | 4500 |
| Event synopsis | Driver crashed. |
| Event type | Error |

AO_UNKNOWN_CLIENT

The server was not able to find the control block of the current client.

The address of the client is %4.

| | |
|-----------------------|-------------------|
| Event number | 5000 |
| Event synopsis | Client not found. |
| Event type | Error |

AO_NO_CLASS

The requested java class was not found. The class or package name is changed, see java implementation and odsapjavadef.h. The package name with the class name must be identical with the definition in the odsapjavadef.h file.

Name of the class: %t%4

Please report this error to the developers!!

| | |
|-----------------------|-----------------------|
| Event number | 5050 |
| Event synopsis | Java class not found. |
| Event type | Error |

AO_NO_FIELDID

The requested field in the java class was not found. The field is changed, see java implementation and source file. The name of the field and the signature must be identical in the class file and the C-implementation.

Name of the class and field: %t%4

Please report this error to the developers!!

| | |
|-----------------------|--------------------------------|
| Event number | 5051 |
| Event synopsis | Field in java class not found. |
| Event type | Error |

AO_NO_METHODID

The requested method in the java class was found. The method is changed, see java implementation and source file. The name of the method and the signature must be identical in the class file and the C-implementation.

Name of the class and method:%t%4

Please report this error to the developers!!

| | |
|-----------------------|---------------------------------|
| Event number | 5052 |
| Event synopsis | Method in java class not found. |
| Event type | Error |

AO_NO_ENV_ELEM

Syntax error:

No environment element found in base model. There must be an environment element in base model.

Base model read from file:%t%4

| | |
|-----------------------|-------------------------------|
| Event number | 6000 |
| Event synopsis | No environment element found. |
| Event type | Error |

AO_SYNTAX_NAME

Syntax error:

<AO_NAME> without name specified.

The syntax error occurred during the load of the information from the base element definition file and created the base element hierarchy.

The syntax error in line: %4

| | |
|-----------------------|-------------------------|
| Event number | 6001 |
| Event synopsis | <AO_NAME> without name. |
| Event type | Error |

AO_SYNTAX_BAN

Syntax error:

No base attribute name specified.

The syntax error occurred during the load of the information from the base element definition file and created the base element hierarchy.

The syntax error in line: %4

| | |
|-----------------------|-------------------------|
| Event number | 6002 |
| Event synopsis | No base attribute name. |
| Event type | Error |

AO_SYNTAX_BADT

Syntax error:

No base attribute data type specified.

The syntax error occurred during the load of the information from the base element definition file and created the base element hierarchy.

The syntax error in line: %4

| | |
|-----------------------|------------------------------|
| Event number | 6003 |
| Event synopsis | No base attribute data type. |
| Event type | Error |

AO_SYNTAX_BASK

Syntax error:

The base attribute search key is unclear.

The syntax error occurred during the load of the information from the base element definition file and created the base element hierarchy.

The syntax error in line: %4

| | |
|-----------------------|------------------------------------|
| Event number | 6004 |
| Event synopsis | Base attribute search key unclear. |
| Event type | Error |

AO_SYNTAX_BRFN

Syntax error:

No base reference father name specified.

The syntax error occurred during the load of the information from the base element definition file and created the base element hierarchy.

The syntax error in line: %4

| | |
|-----------------------|--|
| Event number | 6005 |
| Event synopsis | No base reference father name specified. |
| Event type | Error |

AO_SYNTAX_BRCN

Syntax error:

No base reference child name specified.

The syntax error occurred during the load of the information from the base element definition file and created the base element hierarchy.

The syntax error in line: %4

| | |
|-----------------------|---|
| Event number | 6006 |
| Event synopsis | No base reference child name specified. |
| Event type | Error |

AO_SYNTAX_BRIN

Syntax error:

No base reference informational name specified.

The syntax error occurred during the load of the information from the base element definition file and created the base element hierarchy.

The syntax error in line: %4

| | |
|-----------------------|---|
| Event number | 6007 |
| Event synopsis | No base reference informational name specified. |
| Event type | Error |

AO_ORPHAN_BASE_ELEMENTS

After creating the base model hierarchy there are elements left from the base model. When the model is correct and complete there should be no orphan elements left.

Number of elements left over: %4

| | |
|-----------------------|--------------------------------|
| Event number | 6010 |
| Event synopsis | Orphan base elements detected. |
| Event type | Warning |

AO_NO_DRIVER_INFO

The driver information is not found. The driver information is required to connect.

The missing information: %4

| | |
|-----------------------|---------------------------------|
| Event number | 7000 |
| Event synopsis | No driver information is found. |
| Event type | Warning |

AO_OPEN_ENV

The driver could not open environment on the server.

The name of the server: %4

| | |
|-----------------------|-----------------------------|
| Event number | 7003 |
| Event synopsis | Unable to open environment. |
| Event type | Warning |

AO_ENV_NOT_OPEN

The environment is not open.

| | |
|-----------------------|--------------------------|
| Event number | 7004 |
| Event synopsis | Environment is not open. |
| Event type | Warning |

AO_NO_CARD

The element has no card.

Name of the card: %4

If you get here you probably have an error in <driver>_getAppElem. One of the application element cards has not been set. Go there and fix it.

| | |
|-----------------------|---------------------------------|
| Event number | 7005 |
| Event synopsis | No card in application element. |
| Event type | Warning |

AO_CLOSE_ENV

The driver could not close the environment on the server.

The name of the server: %4

| | |
|-----------------------|--------------------------------|
| Event number | 7006 |
| Event synopsis | Error closing the environment. |
| Event type | Warning |

WINNT_SERVICE_CONTROL

The following service control request from the service control manager is called.

%4

This messages is only on Windows NT.

| | |
|-----------------------|--------------------------|
| Event number | 7500 |
| Event synopsis | Service control request. |
| Event type | Informational |

WINNT_UNABLE_REGISTER

The service is unable to register in the Windows NT registry-database.

Name of the service: %4

This message is only available on Windows NT.

| | |
|-----------------------|--------------------------------|
| Event number | 7501 |
| Event synopsis | NT Service unable to register. |
| Event type | Error |

WINNT_OPEN_SERVICECONTROLMANAGER

Cannot open the service control manager. The service control manager is needed for the request and start of services.

The Windows NT error is:

%4

This message is only available on Windows NT.

| | |
|-----------------------|---|
| Event number | 7502 |
| Event synopsis | Cannot open NT service control manager. |
| Event type | Error |

WINNT_OPEN_SERVICE

Cannot open the service. The service is a windows NT service. See at the <Settings> <Control panel>="" <Services> if the service is available.

%4

This message is only available on Windows NT.

| | |
|-----------------------|-------------------------|
| Event number | 7503 |
| Event synopsis | Cannot open NT service. |
| Event type | Error |

WINNT_START_SERVICE_ERROR

Unable to start the service. The service is a windows NT service. See at the <Settings> <Control panel>="" <Services> if the service is available.

%4

This message is only available on Windows NT.

| | |
|-----------------------|-----------------------------|
| Event number | 7504 |
| Event synopsis | Unable to start NT service. |
| Event type | Error |

WINNT_START_SERVICE

The service has been started. The service is a Windows NT service.

Name of the service: %4

This message is only available on Windows NT.

| | |
|-----------------------|----------------------|
| Event number | 7505 |
| Event synopsis | Start of NT service. |
| Event type | Informational |

WINNT_CONTROL_SERVICE_ERROR

Unable to control the service. The service is a windows NT service. See at the <Settings> <Control panel>="" <Services> if the service is available.

%4

This message is only available on Windows NT.

| | |
|-----------------------|-------------------------------|
| Event number | 7506 |
| Event synopsis | Unable to control NT service. |
| Event type | Error |

WINNT_SERVICE_WRONG_STATE

The service has not the required state. The service is a Windows NT service. The expected states are running, start pending or continue pending.

%4

Service State – for CurrentState

SERVICE_STOPPED 0x00000001

SERVICE_START_PENDING 0x00000002

SERVICE_STOP_PENDING 0x00000003

SERVICE_RUNNING 0x00000004

SERVICE_CONTINUE_PENDING 0x00000005

SERVICE_PAUSE_PENDING 0x00000006

SERVICE_PAUSED 0x00000007

This message is only available on Windows NT.

| | |
|-----------------------|-----------------------------|
| Event number | 7507 |
| Event synopsis | NT Service has wrong state. |
| Event type | Warning |

WINNT_SERVICE_STATE

The state of the service is:

%4

This is an information message to check the state of the service.

This message is only available on Windows NT.

| | |
|-----------------------|-----------------------|
| Event number | 7508 |
| Event synopsis | State of the service. |
| Event type | Informational |

WINNT_SERVICE_STATE_ERROR

An error was detected during the report of the service state to the service control manager.

The error is: %4

This message does not have any influence on the functionality of the service. The service control manager is unable to get the state of the service and will cause an error.

This message is only available on Windows NT.

| | |
|-----------------------|--|
| Event number | 7509 |
| Event synopsis | Error reporting state to NT service control manager. |
| Event type | Error |

ATF_MISSING_QUOTE

Syntax error in ATF file.

The terminating quote of a %4 definition is missing.

| | |
|-----------------------|----------------------------|
| Event number | 8000 |
| Event synopsis | Missing quote in ATF file. |
| Event type | Warning |

ATF_TOKEN_TOO_LONG

Syntax error in ATF file.

The token %4\$ is too long.

| | |
|-----------------------|-----------------------------|
| Event number | 8001 |
| Event synopsis | Token in ATF file too long. |
| Event type | Warning |

ATF_NO_ATF_FILE

Syntax error in ATF file.

The initializer %4\$ was not found in file: %4.

| | |
|-----------------------|----------------------------------|
| Event number | 8002 |
| Event synopsis | No initialize found in ATF file. |
| Event type | Warning |

ATF_WRONG_ATF_VERSION

Syntax error in ATF file.

The version string %4 in file is invalid.

| | |
|-----------------------|-------------------------------------|
| Event number | 8003 |
| Event synopsis | Wrong version is found in ATF file. |
| Event type | Warning |

ATF_NO_TERMINATOR

Syntax error in ATF file.

Terminator not found in %4.

| | |
|-----------------------|-----------------------|
| Event number | 8004 |
| Event synopsis | Terminator not found. |
| Event type | Warning |

ATF_WRONG_TOKEN

Syntax error in ATF file.
Token not allowed in %4.

| | |
|-----------------------|--------------------|
| Event number | 8005 |
| Event synopsis | Token not allowed. |
| Event type | Warning |

ATF_MISSING_IDENTIFIER

A missing identifier caused a problem when generating the ATF file. The missing name has been set to UNDEFINED in the output file. This may cause problems (name collisions) when interpreting the file. Detailed description:

%4

| | |
|-----------------------|---------------------|
| Event number | 8006 |
| Event synopsis | Missing identifier. |
| Event type | Warning |

ATF_ALREADY_DEFINED

The identifier is already defined. The first definition of the identifier is used.
The duplicate identifier is: %4

| | |
|-----------------------|-----------------------------|
| Event number | 8007 |
| Event synopsis | Identifier already defined. |
| Event type | Warning |

ATF_SEEK_ERROR

The position in the file was not found.
Name of the file/URL is: %4

| | |
|-----------------------|------------------|
| Event number | 8008 |
| Event synopsis | File seek error. |
| Event type | Error |

XATF_ERROR_FOUND

The following error is found:
%4

| | |
|-----------------------|--|
| Event number | 8500 |
| Event synopsis | An error is found in the ATF/XML file. |
| Event type | Error |

XATF_ERROR_REPORT

The error is found at the following location:
%4

See also the error message XATF_ERROR_FOUND, for more details.

| | |
|-----------------------|--|
| Event number | 8501 |
| Event synopsis | An error is found in the ATF/XML file. |
| Event type | Error |

XATF_WARNING_FOUND

The following warning is found:
%4

See also the XATF_LOGFILE.

| | |
|-----------------------|---|
| Event number | 8502 |
| Event synopsis | A warning is found in the ATF/XML file. |
| Event type | Warning |

AO_NO_ENVNAME

The driver expects an environment name. There is no environment specified in the service. The service information is read from the INI-File.

Name of the service: %4

| | |
|-----------------------|---------------------------------|
| Event number | 9000 |
| Event synopsis | No environment name in service. |
| Event type | Warning |

AO_NO_APPLELEMS_LOAD

The driver is not able to load the application model of the opened environment.

Name of the environment: %4

| | |
|-----------------------|-----------------------------------|
| Event number | 9002 |
| Event synopsis | Unable to load application model. |
| Event type | Warning |

AO_NO_APPLATTRS_LOAD

The driver is not able to load the application attributes of an application element.

Name of the application element: %4

| | |
|-----------------------|--|
| Event number | 9003 |
| Event synopsis | Unable to load application attributes. |
| Event type | Warning |

AO_WRONG_ARGUMENTS

At least one of the function arguments is not valid. Using these arguments will cause an invalid memory access. Please check the calling function.

Name of the called function: %4

| | |
|-----------------------|----------------------------|
| Event number | 9004 |
| Event synopsis | Invalid function argument. |
| Event type | Error |

AO_NO_INSTATTR_LOAD

The driver is not able to load the instance attributes of the following instance element.

Name of application element and ID of instance: %4

| | |
|-----------------------|-------------------------------------|
| Event number | 9005 |
| Event synopsis | Unable to load instance attributes. |
| Event type | Warning |

AO_NO_SUBMAT_LOAD

The driver was not able to load the submatrixes of the following instance element.

Name of application element and ID of instance: %4

| | |
|-----------------------|-----------------------------|
| Event number | 9006 |
| Event synopsis | Unable to load submatrixes. |
| Event type | Warning |

AO_NO_LOCALCOLUMN_LOAD

The driver is not able to load the LocalColumn information of the following instance element and submatrix.

Name of application element, ID of instance and ID of submatrix: %4

| | |
|-----------------------|------------------------------|
| Event number | 9007 |
| Event synopsis | Unable to load LocalColumns. |
| Event type | Warning |

AO_NO_VALUES_LOAD

The driver is not able to load the values of a LocalColumn of the following instance element and submatrix.

Name of application element, ID of instance, ID of submatrix and name of LocalColumn: %4

| | |
|-----------------------|--|
| Event number | 9008 |
| Event synopsis | Unable to load values of LocalColumns. |
| Event type | Warning |

AO_UNKNOWN_SAVE_MODE

The save mode to put an object into the server is not supported by the driver.

Corrupt save mode: %4

| | |
|-----------------------|------------------------------------|
| Event number | 9009 |
| Event synopsis | Save mode not supported by driver. |
| Event type | Warning |

AO_SQL_ERROR_STATE

An error occurred within a SQL-ODBC command. The SQL state %4 has been reported.

For more detailed information see also the two other messages about the native error and the SQL error messages.

| | |
|-----------------------|--------------------------------------|
| Event number | 9050 |
| Event synopsis | SQL-ODBC error detected - SQL-state. |
| Event type | Error |

AO_SQL_NATIVE_ERROR

An error occurred during a SQL-ODBC command. The following SQL-native error is reported: %4

For more detailed information see also the two other messages about the 'SQL-state' and the SQL error messages. More detailed information about the native error is given in the documentation of the database server.

| | |
|-----------------------|---------------------------------------|
| Event number | 9051 |
| Event synopsis | SQL-ODBC error detected - SQL-native. |
| Event type | Error |

AO_SQL_ERROR_MSG

An error occurred during a SQL-ODBC command. The following error messages is reported.

Messages: %4

For more detail information see also the two other messages about the 'SQL-state' and the 'native error'.

| | |
|-----------------------|--|
| Event number | 9052 |
| Event synopsis | SQL-ODBC error detected - SQL-message. |
| Event type | Error |

AO_USE_DATABASE

An error occurred during the command "use database". The database is not available or database engine is not able to select a special database. For example Oracle is not able to select a database. Correct or remove the entry DATABASE in the INI-File.

Name of the special database is: %4

For more detail information see also the three messages about the 'SQL-state' the 'native error' and the 'Error message'.

| | |
|-----------------------|---------------------|
| Event number | 9053 |
| Event synopsis | Use Database error. |
| Event type | Error |

AO_ERROR_IN_SQL

Error in the SQL-Statement. See also the SQL-Error messages for further information.

The SQL-Statement is:

%4

| | |
|-----------------------|-------------------------|
| Event number | 9055 |
| Event synopsis | Error in SQL-Statement. |
| Event type | Error |

AO_SQL_INFORMATION

The following information was issued by the SQL database system:

%4

| | |
|-----------------------|---------------------------------|
| Event number | 9056 |
| Event synopsis | Information from SQL Subsystem. |
| Event type | Informational |

AOD_UNABLE_PUT_APPLELEM

Unable to add the application element. The application element is already in the database. The name of the application element, the name of the table or the ID are already used in the database.

Name of the application element: %4

| | |
|-----------------------|------------------------------------|
| Event number | 9060 |
| Event synopsis | Unable to add application element. |
| Event type | Error |

AOD_UNABLE_CREATE_TABLE

To store the application element in the database base a new table must be created. The creation of the table failed. See the corresponding SQL Error messages to determine the reason of the error.

The create string is: %4

| | |
|-----------------------|--------------------------------------|
| Event number | 9061 |
| Event synopsis | Unable to create new database table. |
| Event type | Error |

AOD_UNABLE_CHANGE_APPLELEM

Unable to change (DELETE or REPLACE) the application element. There are still instances of the requested application element in the database. The delete and replace function on an application element are only allowed when there are no more instances derived from the application element. Please delete all the instances first and try again.

Name of the application element: %4

| | |
|-----------------------|---------------------------------------|
| Event number | 9062 |
| Event synopsis | Unable to modify application element. |
| Event type | Error |

AOD_NO_MEQ

There was no measurement quantity found in the application model. In the application model no application element is derived from the base element measurement quantity. The driver is unable to store the LocalColumn because the LocalColumn has a direct connection to an instance of the application element of the type measurement quantity.

| | |
|-----------------------|--------------------------------|
| Event number | 9063 |
| Event synopsis | No measurement quantity found. |
| Event type | Error |

AOD_UNABLE_TO_INSERT

An error occurred during the insert of an instance element.

The instance was inserted with the following command:

%4

| | |
|-----------------------|----------------------------|
| Event number | 9064 |
| Event synopsis | Unable to insert instance. |
| Event type | Error |

AOD_NO_APPLELEM

There is no application element of the required type available in the environment. The driver needs this application element.

The required type is: %4

| | |
|-----------------------|---|
| Event number | 9065 |
| Event synopsis | No application element of required type is found. |
| Event type | Error |

AO_STMT_TO_LONG

The SQL-Statement is too long. The embedded SQL is built with fixed length of SQL-Statements. The fixed length is too small for the given statement.

The current length is: %4

| | |
|-----------------------|-------------------------|
| Event number | 9066 |
| Event synopsis | SQL-Statement too long. |
| Event type | Error |

AO_ORACLE_ERROR_STATEMENT

An error occurred within an Oracle SQL.

The SQL statement was:

%4

For more detailed information see also the two other messages about the Oracle native error and the Oracle error messages.

| | |
|-----------------------|--|
| Event number | 9070 |
| Event synopsis | An Oracle SQL-Error is detected-SQL Statement. |
| Event type | Error |

AO_ORACLE_NATIVE_ERROR

An error occurred during an Oracle SQL command. The following Oracle-native error is reported: %4

For more detailed information see also the two other messages about the 'SQL-statmente' and the SQL error messages. More detailed information about the native error is given in the documentation of the database server.

| | |
|-----------------------|--|
| Event number | 9071 |
| Event synopsis | An Oracle SQL-Error detected - SQL-native. |
| Event type | Error |

AO_ORACLEL_ERROR_MSG

An error occurred during an Oracle SQL command. The following error messages is reported. Messages: %4

For more detail information see also the two other messages about the 'SQL-state' and the 'native error'.

| | |
|-----------------------|---|
| Event number | 9072 |
| Event synopsis | An Oracle SQL-Error detected - SQL-message. |
| Event type | Error |

AO NOT ALL INSTANCE LOADED

The result of the query is large. There is a maximum number of result values defined. The query result is larger then this maximum.

The maximum is defined by the INI-File variable SQL_MAX_ROWS.

%4

| | |
|-----------------------|-----------------------------------|
| Event number | 9073 |
| Event synopsis | Not all the instances are loaded. |
| Event type | Informational |

AO SUPERUSER LOGIN

The superuser <%4> has logged into the server. The security checks are turned off for him.

| | |
|-----------------------|-------------------------|
| Event number | 9999 |
| Event synopsis | Superuser is logged in. |
| Event type | Informational |

AOC WRITE DENY

Write access denied. Another application has opened the environment for writing.

Name of the environment: %4

| | |
|-----------------------|----------------------|
| Event number | 10000 |
| Event synopsis | Write access denied. |
| Event type | Warning |

AOC UNKNOWN MODE

The open mode is unknown.

Open mode: %4

| | |
|-----------------------|--------------------|
| Event number | 10001 |
| Event synopsis | Unknown open mode. |
| Event type | Warning |

P3D CANNOT LOAD VIEW

Cannot load the view class %4.

| | |
|-----------------------|-------------------------|
| Event number | 21000 |
| Event synopsis | Cannot load view class. |
| Event type | Error |

P3D CANNOT LOAD MODEL

Cannot load the model class %4.

| | |
|-----------------------|--------------------------|
| Event number | 21001 |
| Event synopsis | Cannot load model class. |
| Event type | Error |

P3D CANNOT LOAD CONTROL

Cannot load the control class %4.

| | |
|-----------------------|--------------------------------|
| Event number | 21002 |
| Event synopsis | Cannot load the control class. |
| Event type | Error |

P3D_CANNOT_UPDATE_VIEW

Cannot load and update the view class. For details see an error message before.

| | |
|-----------------------|---------------------|
| Event number | 21003 |
| Event synopsis | Cannot update view. |
| Event type | Error |

P3D_CANNOT_UPDATE_MODEL

Cannot load and update the model class. For details see an error message before.

| | |
|-----------------------|----------------------|
| Event number | 21004 |
| Event synopsis | Cannot update model. |
| Event type | Error |

P3D_CANNOT_UPDATE_CONTROL

Cannot load and update the control class. For details see an error message before.

| | |
|-----------------------|------------------------|
| Event number | 21005 |
| Event synopsis | Cannot update control. |
| Event type | Error |

P3D_COMPONENT_IS_NOT_REGISTERED

The component is already unregistered.

| | |
|-----------------------|---------------------------|
| Event number | 21006 |
| Event synopsis | Component not registered. |
| Event type | Warning |

P3D_NO_PARENT_NODE

Capability not set for the %4 property.

| | |
|-----------------------|---------------------|
| Event number | 21050 |
| Event synopsis | Capability not set. |
| Event type | Warning |

P3D_ILLEGAL_SHARING

Illegal sharing exception occurred.

| | |
|-----------------------|------------------|
| Event number | 21051 |
| Event synopsis | Illegal sharing. |
| Event type | Warning |

P3D_CAPABILITY_NOT_SET

Capability for the property %4 not set.

| | |
|-----------------------|---------------------|
| Event number | 21100 |
| Event synopsis | Capability not set. |
| Event type | Warning |

P3D_COMPONENT_ARRAY_INDEX_OUT_OF_BOUNDS

The array index is out of bounds for the array access of the component container.

| | |
|-----------------------|--------------------------------------|
| Event number | 21150 |
| Event synopsis | Component array index out of bounds. |
| Event type | Warning |

P3D_WRONG_AXIS_TYPE_VALUE

There is no axis that matches the axis value %4. Use the predefined constants of the class P3DAxisType.

| | |
|-----------------------|------------------|
| Event number | 21200 |
| Event synopsis | Wrong axis type. |
| Event type | Warning |

P3D_CANNOT_SET_AXIS_DEFAULTS

It is not possible to set the axis defaults. For details see an error message before.

| | |
|-----------------------|---------------------------|
| Event number | 21201 |
| Event synopsis | Cannot set axis defaults. |
| Event type | Warning |

P3D_CANNOT_SET_CHANNEL_DEFAULTS

It is not possible to set the channel defaults. For details see an error message before.

| | |
|-----------------------|------------------------------|
| Event number | 21202 |
| Event synopsis | Cannot set channel defaults. |
| Event type | Warning |

P3D_CANNOT_SET_TEXT_DEFAULTS

It is not possible to set the text defaults. For details see an error message before.

| | |
|-----------------------|---------------------------|
| Event number | 21203 |
| Event synopsis | Cannot set text defaults. |
| Event type | Warning |

P3D_CANNOT_SET_LINE_DEFAULTS

It is not possible to set the line defaults. For details see an error message before.

| | |
|-----------------------|---------------------------|
| Event number | 21204 |
| Event synopsis | Cannot set line defaults. |
| Event type | Warning |

P3D_CANNOT_SET_PLOT_DEFAULTS

It isn't possible to set the plot defaults. For details see an error message before.

| | |
|-----------------------|---------------------------|
| Event number | 21205 |
| Event synopsis | Cannot set plot defaults. |
| Event type | Warning |

P3D_INVALID_CHANNEL_NAME

The specified channel name is invalid.

| | |
|-----------------------|-----------------------|
| Event number | 21300 |
| Event synopsis | Invalid channel name. |
| Event type | Warning |

P3D_CANNOT_CAST_TO_AXIS

Unable to cast given object to axis.

| | |
|-----------------------|-----------------------|
| Event number | 21400 |
| Event synopsis | Cannot cast to axis . |
| Event type | Warning |

P3D_CANNOT_CAST_TO_CHANNEL

Unable to cast given object to channel.

| | |
|-----------------------|-------------------------|
| Event number | 21401 |
| Event synopsis | Cannot cast to channel. |
| Event type | Warning |

FWK_CLASS_INSTANTIATION_SUCCESSFUL

Class successfully instantiated:

%4

| | |
|-----------------------|----------------------------------|
| Event number | 22001 |
| Event synopsis | Class successfully instantiated. |
| Event type | Informational |

FWK_SERVICE_CONTROL_MANAGER_START_SUCCESSFUL

Service Control Manager start successful:

%4

| | |
|-----------------------|---|
| Event number | 22002 |
| Event synopsis | Service Control Manager start successful. |
| Event type | Informational |

FWK_ASAM_ODS_SERVICE_CREATION_SUCCESSFUL

AoService successfully created with the following
pluggable component, service options:

%4

| | |
|-----------------------|---------------------------------|
| Event number | 22003 |
| Event synopsis | AoService successfully created. |
| Event type | Informational |

FWK_ASAM_ODS_FACTORY_CREATION_SUCCESSFUL

AoFactory successfully created with the following
service name and service options:

%4

| | |
|-----------------------|---------------------------------|
| Event number | 22004 |
| Event synopsis | AoFactory successfully created. |
| Event type | Informational |

FWK_ORB_CREATION_SUCCESSFUL

Object Request Broker successfully created with the following options:

%4

| | |
|-----------------------|--|
| Event number | 22005 |
| Event synopsis | Object Request Broker successfully created. |
| Event type | Informational |

FWK_NAME_SERVICE_CREATION_SUCCESSFUL

Name Service successfully created with the following command:

%4

| | |
|-----------------------|------------------------------------|
| Event number | 22006 |
| Event synopsis | Name Service successfully created. |
| Event type | Informational |

FWK_NAME_SERVICE_FOUND

Name Service successfully located:

%4

| | |
|-----------------------|---------------------|
| Event number | 22007 |
| Event synopsis | Name Service found. |
| Event type | Informational |

FWK_BIND_TO_NAME_SERVICE_SUCCESSFUL

Bind to Name Service successful. ORB is running.

Name Service: %4

| | |
|-----------------------|---|
| Event number | 22008 |
| Event synopsis | Bind to Name Service successful. ORB is running. |
| Event type | Informational |

FWK_NAME_SERVER_UP

Avalon name server successfully started.

See previous event for details.

| | |
|-----------------------|--|
| Event number | 22009 |
| Event synopsis | Avalon name server successfully started. |
| Event type | Informational |

FWK_NO_ROOT_NAMING_CONTEXT

Cannot resolve initial references: %4

| | |
|-----------------------|-------------------------|
| Event number | 22010 |
| Event synopsis | No Root Naming Context. |
| Event type | Error |

FWK_NO_NAMING_CONTEXT

No Naming Context: %4

| | |
|-----------------------|--------------------|
| Event number | 22011 |
| Event synopsis | No Naming Context. |
| Event type | Error |

FWK_SERVICE_STATE_REPORT

Service state report:

%4

| | |
|-----------------------|-----------------------|
| Event number | 22050 |
| Event synopsis | Service state report. |
| Event type | Informational |

FWK_CLASS_INSTANTIATION_FAILED

Class Instantiation failed:

%4

The following reasons may cause this error:

1. The classpath definition is not complete.
2. The specified class does not exist.
3. There may be an error in the constructor of the class.

| | |
|-----------------------|-----------------------------|
| Event number | 22101 |
| Event synopsis | Class instantiation failed. |
| Event type | Warning |

FWK_CLASS_NOT_FOUND

The class file was not found. The Java classpath may be incomplete or there may be a typing error in the class name. Please check the attribute "Parameter" in the following exception if the class name is the one you really want. Example of a typical class name: com.highqsoft.myappl.MyClass

%4

| | |
|-----------------------|-----------------------|
| Event number | 22102 |
| Event synopsis | Class file not found. |
| Event type | Warning |

FWK_CONSTRUCTOR_NOT_FOUND

The requested constructor was not defined in the class.

| | |
|-----------------------|------------------------|
| Event number | 22103 |
| Event synopsis | Constructor not found. |
| Event type | Warning |

FWK_DOCUMENT_NODE_UNKNOWN

The document node is not available.

| | |
|-----------------------|------------------------|
| Event number | 22104 |
| Event synopsis | Document node unknown. |
| Event type | Warning |

FWK_INPUT_FAILED

Input file not available or read error:

%4

| | |
|-----------------------|---------------|
| Event number | 22105 |
| Event synopsis | Input failed. |
| Event type | Warning |

FWK_METHOD_INVOCATION_FAILED

The method produced an error.

| | |
|-----------------------|---------------------------|
| Event number | 22106 |
| Event synopsis | Method invocation failed. |
| Event type | Warning |

FWK_METHOD_NOT_FOUND

The requested method is not available with the requested parameter(s).

| | |
|-----------------------|-------------------|
| Event number | 22107 |
| Event synopsis | Method not found. |
| Event type | Warning |

FWK_OUTPUT_FAILED

Output file could not be opened or a write error occurred.

| | |
|-----------------------|----------------|
| Event number | 22108 |
| Event synopsis | Output failed. |
| Event type | Warning |

FWK_XML_PARSER_PROBLEM

See detailed exception message.

| | |
|-----------------------|---------------------------|
| Event number | 22109 |
| Event synopsis | XML parser error message. |
| Event type | Warning |

FWK_UNKNOWN_HOST

The requested (local) host name is unknown.

| | |
|-----------------------|-------------------|
| Event number | 22110 |
| Event synopsis | Hostname unknown. |
| Event type | Warning |

FWK_UNABLE_TO_JOIN_INFOBUS

The infobus could not be joined.

| | |
|-----------------------|-------------------------------------|
| Event number | 22111 |
| Event synopsis | Unable to become an infobus member. |
| Event type | Warning |

FWK_WRONG_LISTENER_CONTROLLER_TYPE

The specified listener controller has the wrong type.

| | |
|-----------------------|---|
| Event number | 22112 |
| Event synopsis | Wrong listener controller type specified. |
| Event type | Warning |

FWK_CANNOT_CREATE_DATAFLAVOR

Cannot create the requested data flavor.

| | |
|-----------------------|---------------------------|
| Event number | 22113 |
| Event synopsis | Cannot create DataFlavor. |
| Event type | Warning |

FWK_ARRAY_INDEX_OUT_OF_BOUNDS

The array index is out of bounds for the array access.

| | |
|-----------------------|----------------------------|
| Event number | 22114 |
| Event synopsis | Array index out of bounds. |
| Event type | Warning |

FWK_HELPSET_NOT_FOUND

The HelpSet is not found.

| | |
|-----------------------|--------------------|
| Event number | 22115 |
| Event synopsis | HelpSet not found. |
| Event type | Warning |

FWK_PROPERTY_VETO

Veto on property change for propertyname <%4>

| | |
|-----------------------|--------------------------|
| Event number | 22116 |
| Event synopsis | Veto on property change. |
| Event type | Warning |

FWK_IS_ETERNAL_AND_ALREADY_REGISTERED

An eternal application has tried to instantiate twice.

| | |
|-----------------------|--|
| Event number | 22117 |
| Event synopsis | Application is eternal and already registered. |
| Event type | Warning |

FWK_CANNOT_START_FRAME

An eternal application has tried to start a framethread.

| | |
|-----------------------|--------------------|
| Event number | 22118 |
| Event synopsis | Frame not started. |
| Event type | Warning |

FWK_WRONG_STRING_FORMAT

ANSI - C format string expected. %nWrong format string: <%4>.

| | |
|-----------------------|----------------------|
| Event number | 22119 |
| Event synopsis | Wrong format string. |
| Event type | Warning |

FWK_PROPERTY_CAST_FAILED

Property value could not be casted to requested datatype. <%4>

| | |
|-----------------------|-----------------------|
| Event number | 22120 |
| Event synopsis | Property cast failed. |
| Event type | Warning |

FWK_NO_AUTOSTART

Autostart was suppressed by the property
noautostart = %4

| | |
|-----------------------|-----------------------|
| Event number | 22121 |
| Event synopsis | Autostart suppressed. |
| Event type | Warning |

FWK_LOAD_LIBRARY_NOT_FOUND

Native load library not found. Please make sure that the requested library can be found in one of the directories pointed to by the path variable of your operation system.

Further information about the native library:

%4

| | |
|-----------------------|--------------------------------|
| Event number | 22501 |
| Event synopsis | Native load library not found. |
| Event type | Error |

FWK_SERVICE_CONTROL_MANAGER_START_FAILED

Service Control Manager start failed:

%4

| | |
|-----------------------|---------------------------------------|
| Event number | 22502 |
| Event synopsis | Service Control Manager start failed. |
| Event type | Error |

FWK_UNABLE_START_VM

The software was not able to start the java virtual machine. Please check the class path.

| | |
|-----------------------|--------------------------------------|
| Event number | 22503 |
| Event synopsis | Unable to start the virtual machine. |
| Event type | Error |

FWK_ASAM_ODS_SERVICE_CREATION_FAILED

AoService creation failed with the following pluggable component, service factory options:

%4

Service factory options are implementation dependent options which are used by the specified pluggable component. For the pluggable component com.highqsoft.ods.athos the supported option is for example:

INIFILE=ATHOS_INI (the Athos default).

| | |
|-----------------------|----------------------------|
| Event number | 22504 |
| Event synopsis | AoService creation failed. |
| Event type | Error |

FWK_ASAM_ODS_FACTORY_CREATION_FAILED

AoFactory creation failed with the following service name and service options:

%4

| | |
|-----------------------|----------------------------|
| Event number | 22505 |
| Event synopsis | AoFactory creation failed. |
| Event type | Error |

FWK_ORB_CREATION_FAILED

Object Request Broker creation failed with the following options:



%4

| | |
|-----------------------|--|
| Event number | 22506 |
| Event synopsis | Object Request Broker creation failed. |
| Event type | Error |

FWK_NAME_SERVICE_CREATION_FAILED

Name Service creation failed with the following command:

%4

| | |
|-----------------------|-------------------------------|
| Event number | 22507 |
| Event synopsis | Name Service creation failed. |
| Event type | Error |

FWK_NAME_SERVICE_NOT_FOUND

Name Service not found:

%4

| | |
|-----------------------|-------------------------|
| Event number | 22508 |
| Event synopsis | Name Service not found. |
| Event type | Error |

FWK_BIND_TO_NAME_SERVICE_FAILED

Binding AoFactory to the following

Corba Name Service failed:

%4

| | |
|-----------------------|---|
| Event number | 22509 |
| Event synopsis | Binding AoFactory to Corba Name Service failed. |
| Event type | Error |

FWK_PORT_ADDRESS_IN_USE

The port address is already in use:

%4

| | |
|-----------------------|---|
| Event number | 22510 |
| Event synopsis | The requested port address is already in use. |
| Event type | Error |

INFOBUS_REJECTED_JOIN

The attempt to join the infobus was rejected.

| | |
|-----------------------|------------------------|
| Event number | 23000 |
| Event synopsis | Rejected infobus join. |
| Event type | Warning |

INFOBUS_INVALID_NAME

The specified infobus name is invalid.

| | |
|-----------------------|-----------------------|
| Event number | 23001 |
| Event synopsis | Invalid infobus name. |
| Event type | Warning |

INFOBUS_MISSING_SEPARATOR_IN_NAME

The specification of the infobus name must contain @.

| | |
|-----------------------|--------------------|
| Event number | 23002 |
| Event synopsis | Missing @ in name. |
| Event type | Warning |

INFOBUS_UNABLE_TO_LEAVE

The consumer is unable to leave the infobus.

| | |
|-----------------------|--------------------------|
| Event number | 23003 |
| Event synopsis | Unable to leave infobus. |
| Event type | Warning |

INFOBUS_UNABLE_TO_CREATE_DATAFLAVOR

Unable to create the requested dataflavor.

| | |
|-----------------------|-------------------------------|
| Event number | 23004 |
| Event synopsis | Unable to create data flavor. |
| Event type | Warning |

PUMA_INVALID_HOSTNAME

The hostname is null or not set.

The given hostname is: %4

| | |
|-----------------------|-------------------|
| Event number | 30000 |
| Event synopsis | Invalid hostname. |
| Event type | Error |

PUMA_INVALID_PORT

The port is null or not set.

The given port is: %4

| | |
|-----------------------|---------------|
| Event number | 30001 |
| Event synopsis | Invalid port. |
| Event type | Error |

PUMA_NO_SESSION_FOUND

No session to the PUMA engine found.

| | |
|-----------------------|----------------------------|
| Event number | 30002 |
| Event synopsis | No session to PUMA engine. |
| Event type | Error |

PUMA_WRONG_MSG_TYPE

The message type is wrong or out of range.

The given type is: %4

| | |
|-----------------------|---------------------|
| Event number | 30003 |
| Event synopsis | Wrong message type. |
| Event type | Warning |

PUMA_WRONG_STATUS

The status is wrong or out of range.

The given status is: %4

| | |
|-----------------------|---------------|
| Event number | 30004 |
| Event synopsis | Wrong status. |
| Event type | Warning |

PUMA_WRONG_ERROR

The error is wrong or out of range.

The given error is: %4

| | |
|-----------------------|--------------------|
| Event number | 30005 |
| Event synopsis | Wrong error level. |
| Event type | Warning |

PUMA_WRONG_SEVERITY

The severity is wrong or out of range.

The given severity is: %4

| | |
|-----------------------|-----------------------|
| Event number | 30006 |
| Event synopsis | Wrong severity level. |
| Event type | Warning |

PUMA_WRONG_DESTINATIONBITS

The destinationbits are wrong or out of range.

The given destinationbits are: %4

| | |
|-----------------------|-------------------------|
| Event number | 30007 |
| Event synopsis | Wrong destination bits. |
| Event type | Warning |

PUMA_ENGINE_FAILURE

The communication between the PUMA engine and the client are wrong.

| | |
|-----------------------|--------------------------------|
| Event number | 30008 |
| Event synopsis | The PUMA engine has a problem. |
| Event type | Warning |

CONVERTER_UNABLE_OPEN_FILE

Unable to open file.

| | |
|-----------------------|----------------------|
| Event number | 31000 |
| Event synopsis | Unable to open file. |
| Event type | Error |

EXTERNAL_ERROR

%4

| | |
|-----------------------|-----------------|
| Event number | 65535 |
| Event synopsis | External error. |
| Event type | Error |

EXTERNAL_INFO

%4

| | |
|-----------------------|-----------------------|
| Event number | 65535 |
| Event synopsis | External information. |
| Event type | Informational |

EXTERNAL_WARNING

%4

| | |
|-----------------------|-------------------|
| Event number | 65535 |
| Event synopsis | External warning. |
| Event type | Warning |



Chapter 12

Glossary

- **Athos:** ASAM Transient Highperformance Object Storage
- **ASAM:** Association for Standardisation of Automation- and Measuring Systems
- **kernel:** The Athos Runtime System
- **URL:** Uniform Resource Locator - eindeutige Adresse einer Ressource, vor allem im Internet, z.B. einer Webseite, einer im Internet veröffentlichten pdf-Datei
- **HTML:** HyperText Markup Language
- **ODS:** Open Data Service
- **ANSI:** American National Standards Institute
- **ANSI-C:** Standard C that runs on most operating systems; For example ANSI C will run on multiple operating systems, including: Windows, Macintosh, UNIX, IBM Mainframes.
- **HighQSoft GmbH:** Mr. Hans Bothe, Schlossborner Weg 6b, D-61479 Glashuetten/Taunus FON: +49(0)6174-62915 FAX: +49(0)6174-62935 www.highqsoft.de
- **HighQSoft LLC:** Mr. Mark Quinsland, 1397 Salmon Falls Road, El Dorado Hills, California 95762 FON: +1 (916) 939-7048 FAX: +1 (916) 939-7048 www.highqsoft.com
- **AVALON:**
- **Java:**
- **ASCOBA:**
- **ODS-API:**
- **Athos Toolkit:**
- **Win32:**
- **UNIX:**
- **ATF:** ASAM Transport Format
- **AVL3:**
- **atf13:**
- **Oracle:**

Chapter 13

Modification History

The modification history is only for the explicit textual changes. If a configuration variable or error description is added or changed, there will be no remark in this chapter. The entries in the list are sorted by theme and not by date.

2004/02/18

Add the modification history

2004/07/05

Textual revision, correcting of the english language.

2005/11/21

Add **Datatype of Id's in Athos Runtime System**.(p. 15)

2006/03/14

Add AthosConfig. Add **LogViewer**(p. 32) Add **Configuration of the Athos Runtime System on Linux**(p. 8)

2007/02/01

Add **Control the size of the files**.(p. 29)

2007/04/03

Add setting for compiling with Microsoft Visual Studio 2005

2008/04/10

Extend **Logging**(p. 29)

2008/10/27

Add **Configuration of the Windows event viewer**(p. 8), extend **Error reporting on Win32 system**(p. 27)

2006/11/17

Extend section **Error reporting and logging Ascoba**(p. 32)

2001/08/05 Karst Schaap

Create the document on HighQSoft format. Add modification history. Attribute name can be the name of the base attribute.

2001/09/05 Markus Schuldlos

Documentation of "modify" - function

2001/10/16 Karst Schaap

Add example for insert function. More detailed description of the used services.

2002/05/21 Karst Schaap

Add the clause IGNORE. Extend the explanation of the insert function.

2005/07/13 Karst Schaap

Cleanup text for new generation.

2007/04/07 Karst Schaap

Add INI-file variable for the select.

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