

# **ARInside 3.0.0**

## **Documentation**

Updated: 17<sup>th</sup> January 2010

Status: Published

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## Introduction

ARInside is a command-line application that generates linked HTML pages to document ARSystem workflow. The program can be run in online mode connecting to an ARSystem server or in file mode using an XML server definition export file. In advance a Packing List with all ARSystem server objects to exclude from documentation can be specified in the application configuration.

ARInside was initially designed by Stefan Nerlich, who has made the source code public in mid 2009. From this day on ARInside is maintained by a few developers and released under the “General Public License Version 2” (GPLv2).

Visit <http://arinside.org> for more recent information.

## Getting Started

We start here with a simple example that documents all workflow of a local installed AR-system server. The example assumes ARInside is located in `C:\arinside`. Additionally an administrative user named “Demo” with password “pass” is requirement on your server. So first start a new command shell and go to the installation folder of ARInside. The prompt should look like this:

```
C:\arinside>
```

Now enter the following command to start documentation of your server.

```
C:\arinside> arinside -i settings.ini -l Demo -p pass -s localhost
```

After that ARInside connects to your server and starts documenting all forms, fields and workflow.

What’s the meaning of those arguments? Ok, here is a short explanation: The “-i” argument specifies the configuration file. ARInside comes with a default configuration file named “settings.ini” which we use in this example. The “-l” switch defines the user name and “-p” the password ARInside will use to connect to the server specified by the “-s” switch.

Depending on the size of your application it can take several hours to finish. Please be patient. If its finished, you’ll find the generated documentation under `C:\arinside\DefaultOutputFolder`. Open the contained `index.htm` file with a web-browser you like.

## Requirements

The following software-components must be installed

- Visual C++ 2008 Redistributable Package SP1

Make sure the following points are fulfilled:

- The specified username should have administrator rights. Otherwise the documentation will be incomplete.
- ARInside supports AR-server version 7.0 and higher. It might also work against older versions. However testing focuses mainly on the specified versions.

## Command Line Arguments

This chapter describes all the available command line options.

### Required

-s (string)	ARSystem server name to connect
-l (string)	Login Name used to connect to the ARSystem server
-i (string)	File Name of the configuration file

### Optional Parameters

-p (string)	Password
-t (integer)	The port number that the program will use to communicate with the AR System server. If you do not specify this parameter or provide 0 for the port number, your program will use the port number supplied by the portmapper. This parameter is overridden by the ARTCPPORT environment variable.
-r (integer)	The RPC program number of the server. Specify 390600 to use the admin server, a number from 390621 to 390634 or 390636 to 390669 or 390680-390694 to use a private server, or 0 (default) to use the fast or list server queue. This parameter is overridden by the ARRPC environment variable.
-v	If specified it enables detailed program output.

### Examples

```
arinside.exe -s servername -l Demo -i settings.ini
arinside.exe -l Demo -s servername -p mypassword -i settings.ini
arinside.exe -p "my&password" -i settings.ini -s servername -l Demo
arinside.exe -s servername -l Demo -i "my settings.ini"
arinside.exe -s servername -l Demo -i "my settings.ini" -t 1044 -r 390621
```

### Comments

- The order of the parameters is irrelevant
- Parameters with special characters (for example empty spaces) can be surrounded by quotation marks

## Configuration File

The ARInside application settings can be configured using a simple text-file. The settings are grouped into four categories described below.

### Application Settings

TargetFolder	Description: Relative path to the output directory where the documentation is saved. Type: String Default value: DefaultOutputFolder
FileMode	Description: Specify if the application will connect to an ARSystem server (FileMode=FALSE) or load information from a file specified in parameter ObjListXML (FileMode=TRUE). Type: Boolean (Values: TRUE / FALSE) Default value: FALSE
ObjListXML	Description: An ARSystem Administrator server definition file in XML format. The parameter specifies the filename and is only used when FileMode is set to TRUE. Refer to the ARSystem Administrator Guide how to export server definitions in XML format. Type: String Default value: <EMPTY>
UTF-8	Description: Refer to your ARSystem Database configuration if UTF-8 encoding is required. Type: Boolean (Values: TRUE / FALSE) Default value: FALSE
BlackList	Description: Name of an ARSystem PackingList with a list of ARSystem objects NOT to include in the documentation. Server objects type of Application or Packinglist will be considered as container without the including objects. Refer to the ARSystem Administrator Guide how to create a PackingList and add/remove objects to the list. Type: String Default value: <EMPTY>
LoadServerInfoList	Description: Load extended server informations. Type: Boolean (Values: TRUE / FALSE) Default value: TRUE
CompactFolder	Description: Use NTFS file system compression to save some disk space. The application uses the Windows NT <sup>(tm)</sup> compact command. Type: Boolean (Values: TRUE / FALSE) Default value: TRUE
DeleteExistingFiles	Description: Delete all existing files in target folder. Type: Boolean (Values: TRUE / FALSE) Default value: TRUE

## Data Retrieval

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LoadUserList	Description: Load User data from ARSystem form „User“. Requires the following fields in the form: RequestId (1), LoginName (101), Email (103), GroupList (104), FullName (8), DefNotify (108), LicType (109), FtLicType (110), CreatedBy (2), Created (3), ModifiedBy (5), Modified (6) If this parameter is set to „FALSE“ no user data will be loaded. Type: Boolean (Values: TRUE / FALSE) Default value: TRUE
UserForm	Description: Name of the ARSystem user form. Type: String Default value: User
UserQuery	Description: Query to restrict the number of users returned from the server Type: String Default value: '1'!= \$NULL\$
LoadGroupList	Description: Load Group data from ARSystem form „Group“. Requires the following fields in the form: RequestId (1), GroupName (105), GroupId (106), GroupType (107), LongGroupName (8), CreatedBy (2), Created (3), ModifiedBy (5), Modified (6), Category (120), Computed Group Definition (121) If this parameter is set to “FALSE” no group data will be loaded. Type: Boolean (Values: TRUE / FALSE) Default value: TRUE
GroupForm	Description: Name of the ARSystem group form. Type: String Default value: Group
GroupQuery	Description: Query to restrict the number of groups returned from the server Type: String Default value: '1'!= \$NULL\$
LoadRoleList	Description: Load Roles data from ARSystem form „Role“. Requires the following fields in the form: RequestId (1), ApplicationName (1700), RoleName (1701), RoleID (1702), GroupName Test (2001), GroupName Production (2002), CreatedBy (2), Created (3), ModifiedBy (5), Modified (6) If this parameter is set to “FALSE” no role data will be loaded. Type: Boolean (Values: TRUE / FALSE) Default value: TRUE
RoleForm	Description: Name of the ARSystem role form. Type: String Default value: Roles

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RoleQuery	Description: Query to restrict the number of roles returned from the server Type: String Default value: '1'!= \$NULL\$
MaxRetrieve	Description: The maximum number of entries to retrieve. Use this parameter to limit the amount of data returned if the qualification does not sufficiently narrow the list. Specify 0 to assign no maximum. Type: Integer Default value: 0

## Layout

CompanyName	Description: Your company name displayed in the documentation. Type: String Default value: yourcompanyname
CompanyUrl	Description: Html link to the specified company (CompanyName) Type: String Default value: http://companyurl.com
RunNotes	Description: Additional notes that will display on the main page Type: String Default value: <EMPTY>

## Recommended Configuration

The ARInside package comes with a sample configuration file named “settings.ini”. While this configuration is enough to start with, it’s always a good idea to customize it to personal needs.

### 1) Target Folder

The output folder should be changed to a more appropriate name and location. For example:

```
TargetFolder          = D:\arinside_doc\<<servername>
```

### 2) User List

If you have a lot of users it could increase the duration of a run significantly. At the same time you don’t get much functionality, just some details like license type and such, and a direct link between an AR-system object and the user. For most customers this isn’t important at all. In this case it’s recommended to disable loading of users.

```
# Data Retrieval
LoadUserList          = FALSE
```

## Security

ARInside uses the following ARSystem API calls to load objects from server / file.

### Online Mode

- ARInitialization
- ARTermination
- ARGetList(...)
- ARGet(...)
- FreeAR

### File Mode

- ARInitialization
- ARGet(...)FromXML
- FreeAR

### Security Comments:

ARInside uses NO DirectSQL, Run Process or ARExecuteProcess API calls.

## Known Problems

Here are some known problems and possible workarounds listed.

### Loading of encryption library failed

In some case the program prints out the following text right after the start:

```
Connecting to server sample.server.name...
Initilization of ARAPI returned: 2 (Error)
[ARERR 9011] Loading of encryption library failed
```

After the error message, the program crashes. From what is known this is an issue of ARAPI 7.5, if it finds another api file within the path. The workaround is to clear the PATH variable before you run ARInside.

```
C:\> set PATH=
```

Reference: <http://arinside.org/ticket/81>

### Page not rendered by Internet Explorer

It looks like "Internet Explorer" has some trouble rendering bigger html files. A user has had some trouble with a 60 MB html file. In such a case we can only recommend using another browser. Firefox and Chrome will work very well in such a case.



## Disclaimer

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