



# Comtarsia SignOn Agent for LDAP 2012

## Manual

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# 1.Introduction

Automated LDAP Account Management triggered by Logon Client, Web Gateway and LDAP Directory Replicator via the SignOn Proxy Service



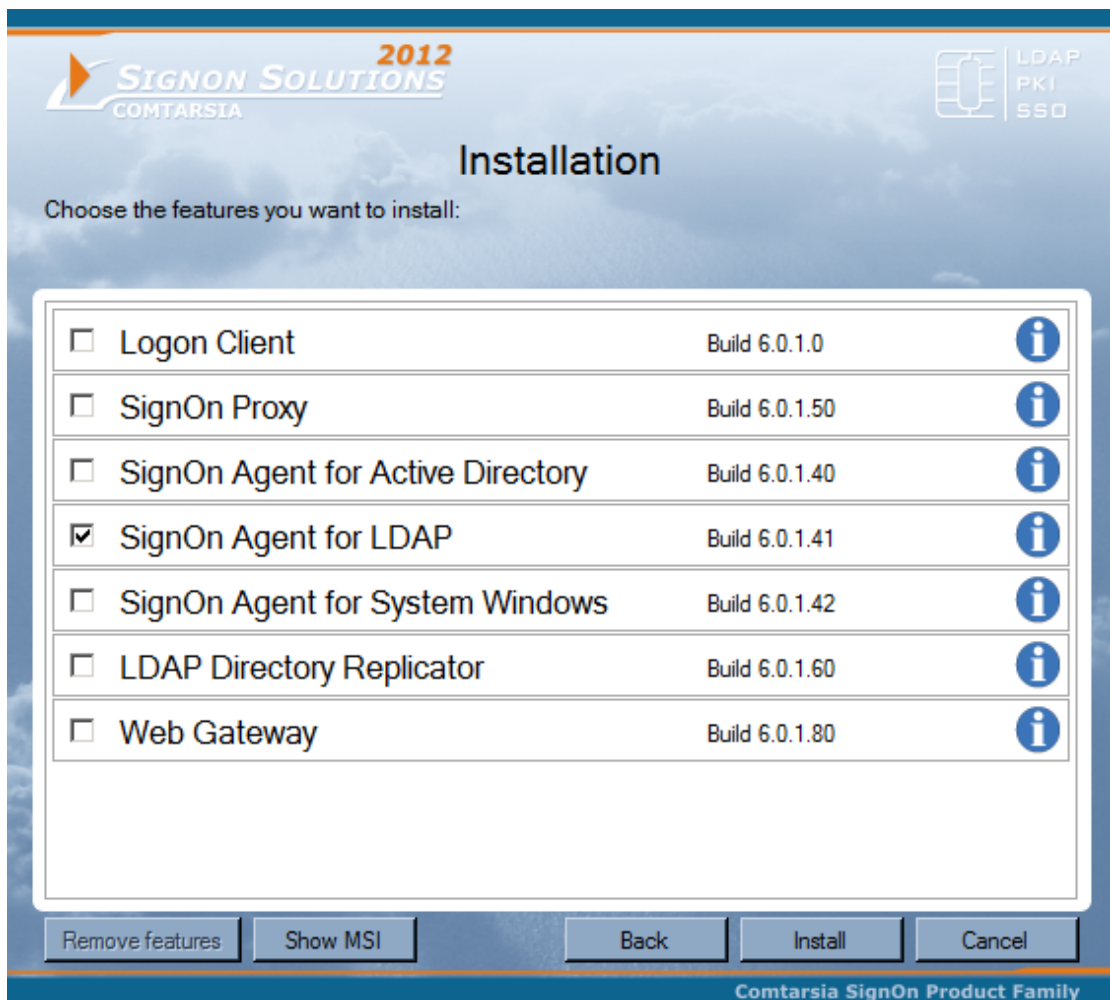
Supported LDAP Server:IBM Tivoli Directory Server, Open LDAP, Open Directory (Mac OS X), Fedora Directory Server, Novell eDirectory Server, IBM z/OS SecureWay (RACF), Sun DS Enterprise Edition, Lotus Domino, Microsoft Active Directory (via LDAP)

Supported Platforms:  
Windows Server 2008 / 2012

## 2. Installation

### 2.1 Manual Installation

An installation or an update is done using the installation program "SOS2012-6.0.x.4.exe". When updating, the configuration is preserved and the license key will only be replaced if the validity of the installed key is shorter than the validity of the key shipped with the installation program. (Bought license keys usually won't be replaced.)



After the installation, the configuration utility „Comtarsia Management Console“ is started. See: [Comtarsia Management Console \(ComtMC\)](#)

## 3. Comtarsia Management Console (ComtMC)

The Comtarsia Management Console (ComtMC) can be accessed through the Start menu.

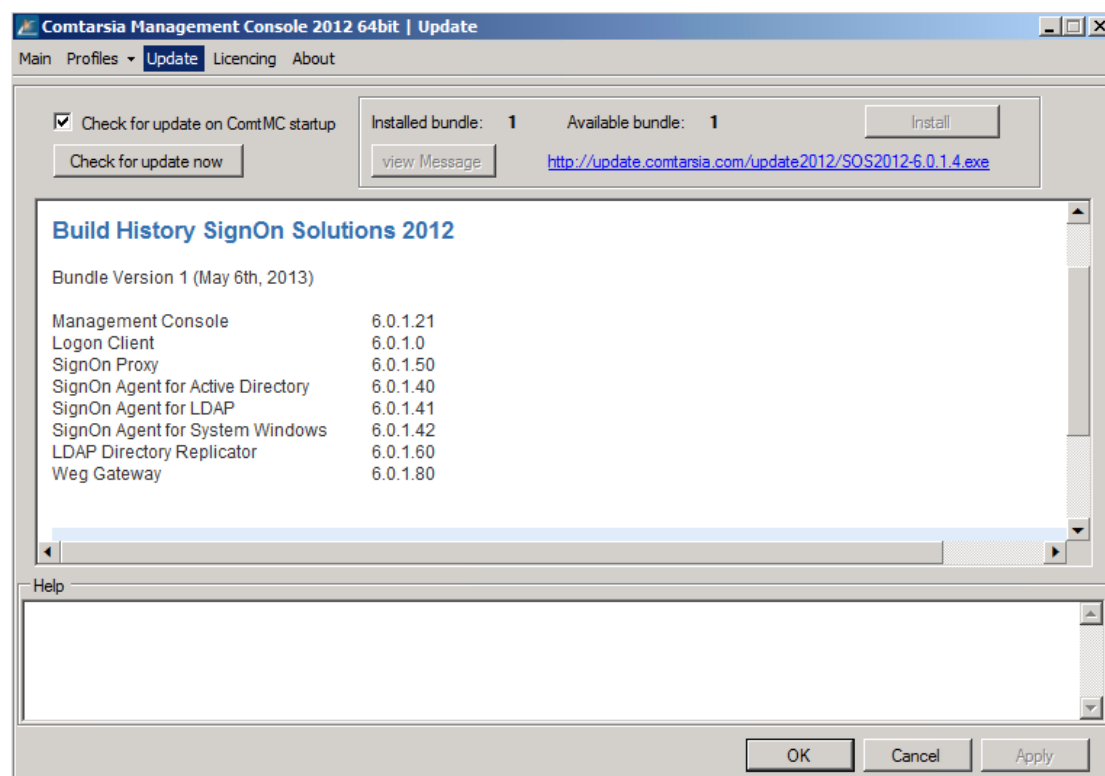
On the first start of the ComtMC one will be asked whether "automatic update checking" should be enabled or disabled. If there's no direct internet connection (internet accessible without proxy server), it's advisable to disable automatic update checking for now. This setting can be adjusted at a later time. See: [Update Notification](#)

### 3.1 Update Notification

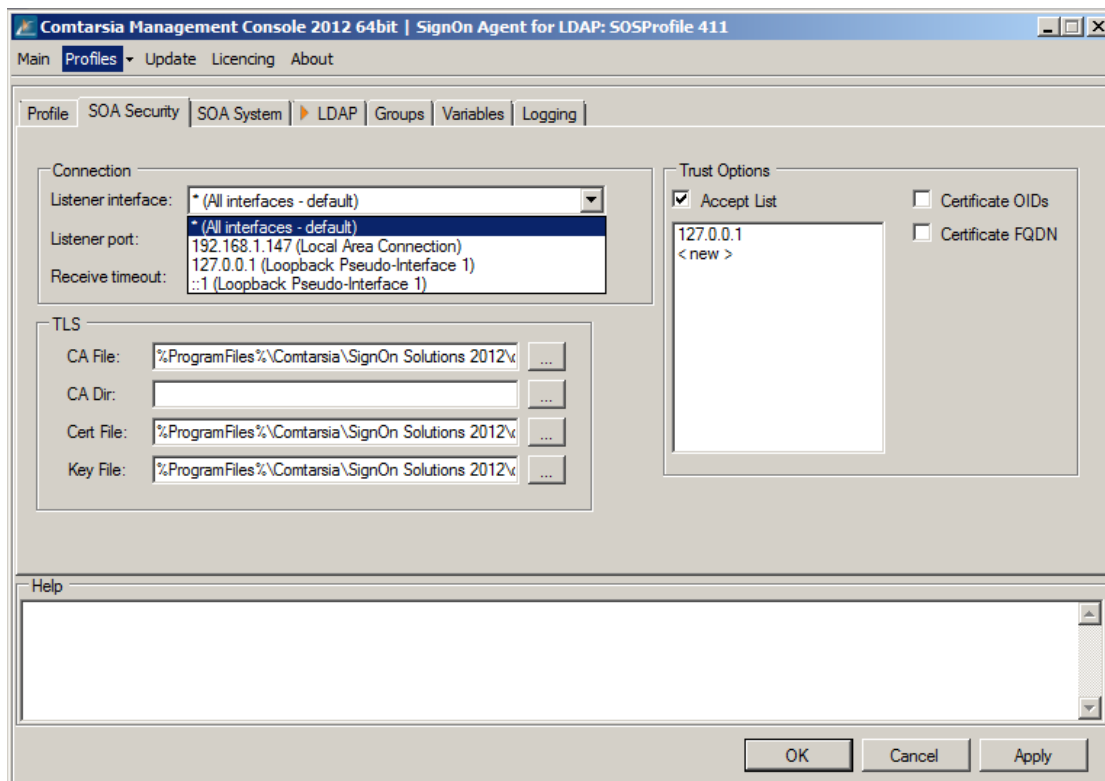
The version checking and notification is performed each time the ComtMC is started.

If there's no direct internet connection (internet accessible without proxy server), it's advisable to disable automatic update checking for now. The update check is carried out exclusively over <http://update.comtarsia.com>

A manual check (Check for update now) can be triggered via the "Update" tab of the ComtMC.



## 3.2 Proxy Connection



The Listener interface defines the permitted SignOn Proxy request interface.

The Accept List defines SSL verification options for the communication between the SignOn Proxy and the SignOn Agent.

TLS defines the transport layer security certificates for the SignOn Gate communicate (SignOn Proxy-Logon Client; SignOn Proxy-SignOn Agent).

## 4. Configuration Parameters

### 4.1 SOA System

#### 4.1.1 User

Create User defines if a user should be created or only existing users should be updated.

The Sync error condition defines when a sync error is stated and reported back to the client.

LogonUser fails: only treats a failed logon after setting this user's password as a sync error.

ALL errors: treats all errors as sync error. i.e.: The Agent wasn't able to update the users's group membership.

#### set password

OnCreate: The password is set when the user is created.

OnUpdate: The password is updated only if the logon fails with the requested password.

Force: The password is set on each signon request. This setting is not recommended by default, because it costs a little more performance, but it can be necessary under certain circumstances.

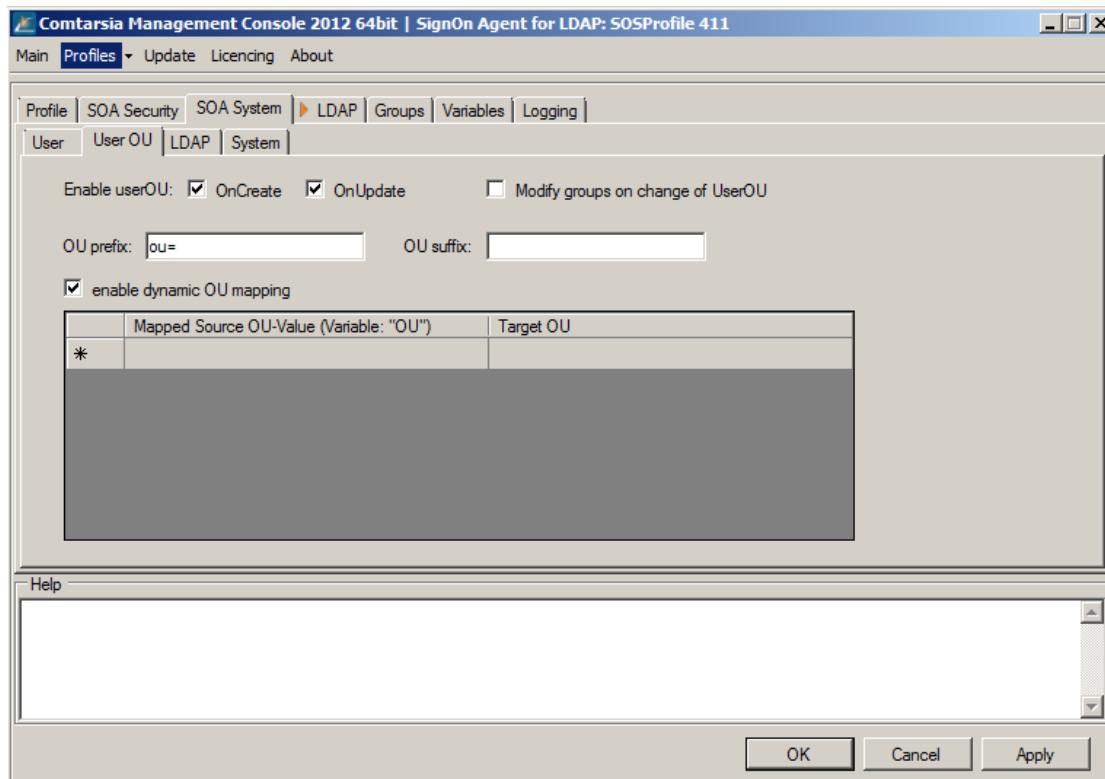
#### add to group

OnCreate / OnUpdate; defines if a user should be added to a Windows system group according to the group-mapping function.

#### remove from group

OnCreate / OnUpdate; defines if a user should be removed from a Windows system group according to the group-mapping function.

#### 4.1.2 User OU



##### Enable userOU, by OnCreate or OnUpdate the user account:

If this option is enabled, and the variable %OU% is set for the current user, the SignOn Agent tries to create the user in the specified OU. The target OU is determined using the %OU% variable, and the dynamic OU mapping, or static OU mapping (with OU prefix and OU suffix) .

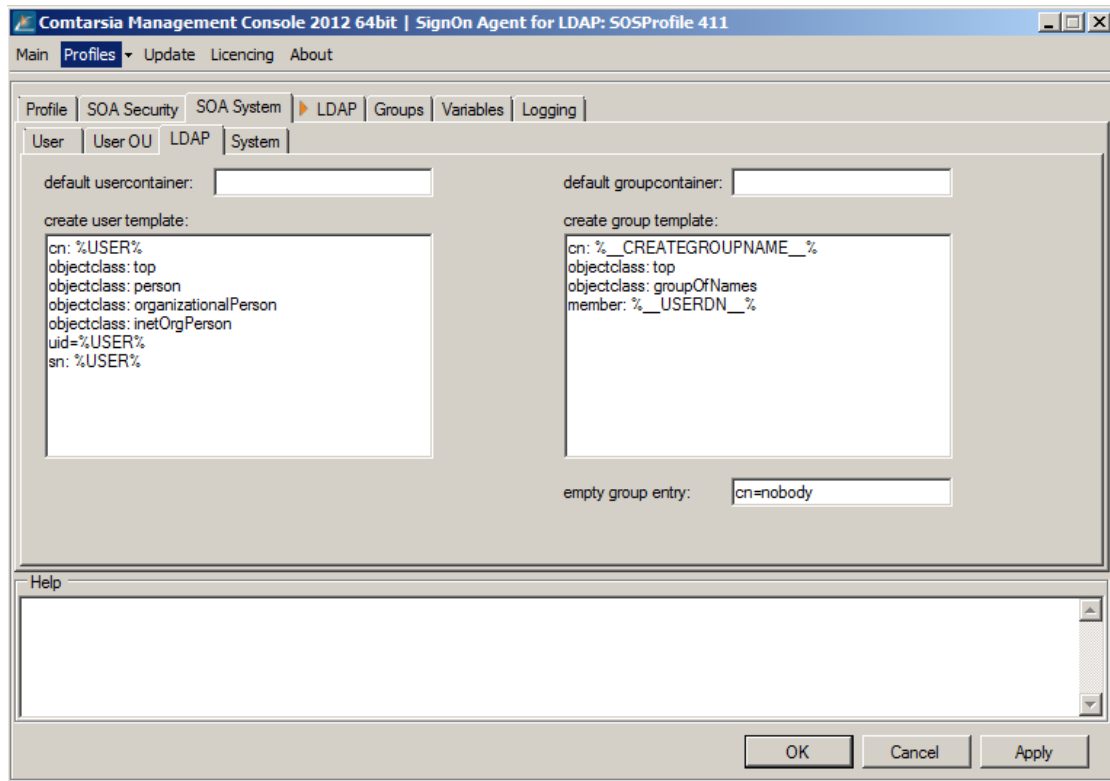
OU prefix specifies a prefix to be used for the target OU.

OU suffix specifies a suffix to be used for the target OU.

The target OU will be build using: <OU prefix>%OU%<OU suffix>,<base DN> .



### 4.1.3 LDAP



Default container specifies the default user container for newly created users (if OU move is disabled, or no OU is set for that user).

The complete user DN will be constructed in the following way:

<UserDNSuffix><%USER%>,<DefaultUserContainer>,<LDAPBaseDN>

If 'default usercontainer' is not set, the following DN will be used:

<UserDNSuffix><%USER%>,<LDAPBaseDN>

Default groupcontainer specifies the default group container for newly created groups.

The complete group DN will be constructed in the following way:

cn=<%\_\_CREATEGROUPNAME\_\_%>,<DefaultGroupContainer>,<LDAPBaseDN>

if 'default usercontainer' is not set, the following DN will be used:

cn=<%\_\_CREATEGROUPNAME\_\_%>,<LDAPBaseDN>

Create user template specifies an LDIF-style template for new users.

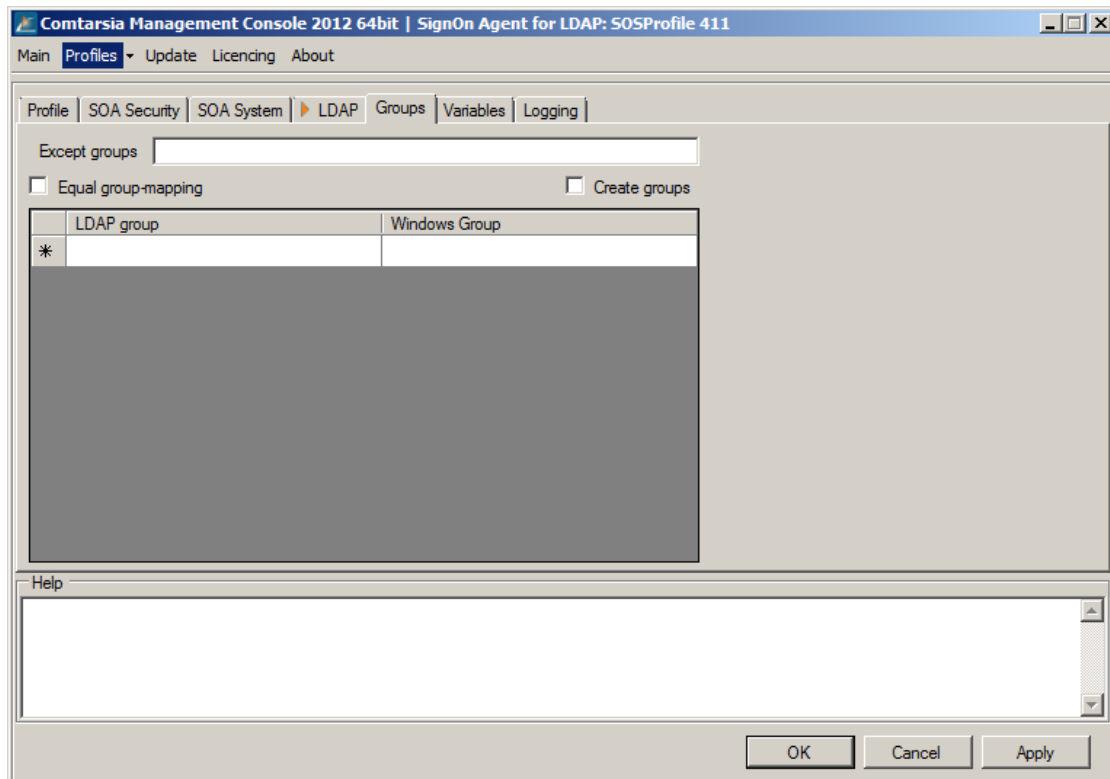
%USER% will be replaced by the username.

Other variables can also be used.

Some LDAP group types don't allow empty groups which means that the last user can not be removed from the group.

In that case, a dummy user (empty group entry) will be added to the group.

## 4.2 Groups

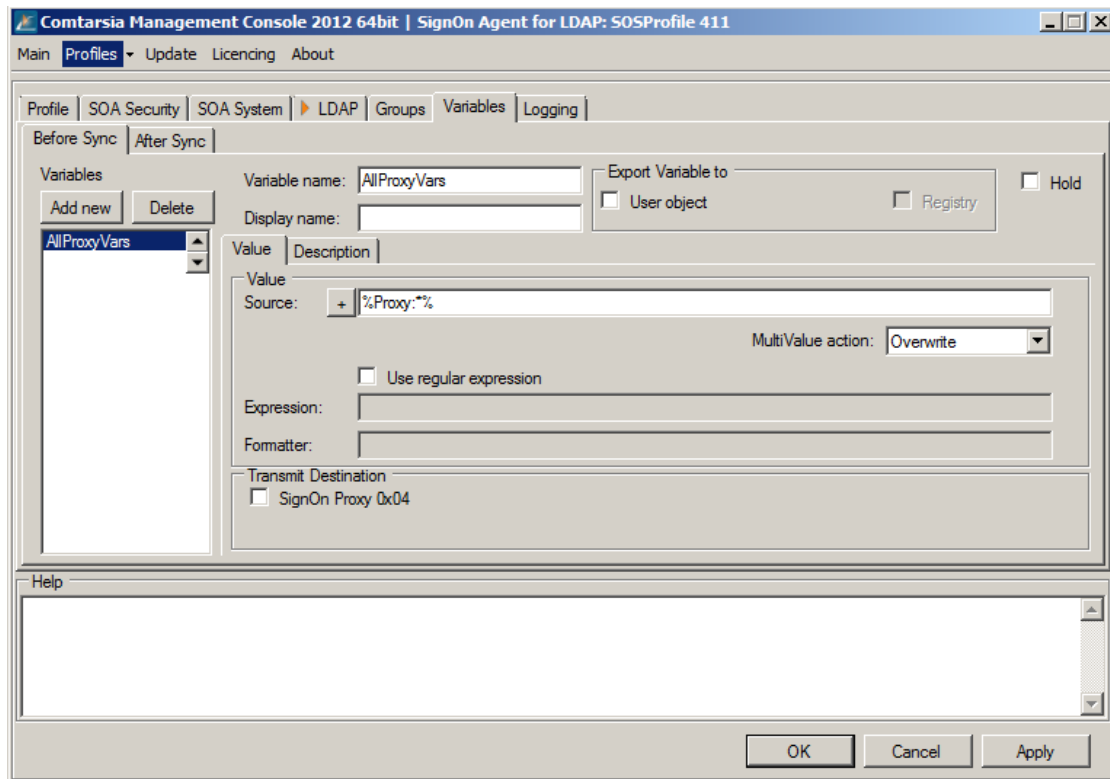


The group-mapping functions allows assign Windows system group membership depending of the LDAP group membership of LDAP user. The LDAP group list are sent to the SignOn Agent via the the internal variable `__GROUP__`. By using the variable manger information of ldap attributes or from another sources can be added to this list by using the variable manager.

The parameter Except groups defines a comma separated list of group names for which no operation should be carried out. (The user won't be added to, nor removed from these groups.)

If Equal group-mapping is enabled, the group names won't be altered by the mapping list. Each LDAP Group will be mapped to a system group one-to-one. Otherwise, a manual "group mapping" list can be specified. (also see: [LDAP-groups](#) and [AttributeBasedGroups](#) on the SignOn Proxy configuration)

## 4.3 Variables



Variables are placeholders for variable values which can be obtained from different sources and processed and exchanged between the products within the Comtarsia product family. The values can also be exported to the respective target systems.

Examples for possible sources: LDAP user object; Windows registry, Computer environment variables, internally provided values.

Examples for possible export targets: Attributes of the Windows user object (ie. comment, home/profile path, full name); user environment.

The variables can be used/modified at two different points in time which are defined by the tabs "[Before Sync](#)" and "[After Sync](#)".

[Before Sync](#): Variables will be accessed before the user synchronisation (thus they can also be sent to the SignOn Proxy/SignOn Agent)

[After Sync](#): Variables will be processed after the user synchronisation. Thus values can be sent back by the SignOn Agent/SignOn Proxy and processed.

The variables will also be processed in order (from top to bottom). The up/down arrow buttons can be used to change that order.

The [Variable name](#) specifies the name of the variable. If the value has to be exported, the name has to match with the name of the target variable and/or the name of the target attribute.

The [Display name](#) specifies the name to be displayed in the variables list (at the left side). This parameter is used by the configuration utility only and is meant to help organising the variables.

Via "[Export Variable to](#)", variables can be exported to different target systems.  
**User object:** The value of the user object (with the name of the value) will be set to the value of the variable.  
**User environment:** The variable will be exported into the user environment (Windows environment variable).

With [Hold](#) variables can be disabled temporarily.

### Value

The [Source](#) defines the source/data of the variable. This field can contain text as well as other variables (between two '%'). To use '%' as part of the value '%%' has to be used and will be replaced by '%' rather than used as a variable. The "+" button offers a dialog to add easy-to-use variable source templates.

The [MultiValue action](#) defines how to handle multi value variables (variables which represent an array).

Overwrite: A possibly existing value will be overwritten.

Delete: The variable will be deleted.

DeleteValue: The resulting value will be removed from the existing variable (array).

AddValue: The resulting value will be added to the variable (array). (ie. to add a group to the existing list of groups)

[Use regular expression](#) enabled the 'regular expressions' functionality for this variable..

[Expression](#) defines the regular expression which has to be applied to the resolved value (content/data) of the source. If the source also contains variables, these will be replaced before the regular expression is applied.

The [Formatter](#) defines how to build the resulting value by applying the regular expression on the source value.

The [Index](#) can be used to refer to a specific match if a necessarily more ambiguous regular expression results in more than one match. Usually the index is 0 unless it's impossible to make the regular expression specific enough to result in only 1 match.

The [Flags](#) is a bitmask which specifies the operation mode of the regular expression.

### Valid Flags:

```
match_default          0,
match_not_bol         0x00000001, /* first is not start of line */
match_not_eol         0x00000002, /* last is not end of line */
match_not_bob         0x00000004, /* first is not start of buffer
*/
match_not_eob         0x00000008, /* last is not end of buffer */
match_not_bow         0x00000010, /* first is not start of word */
match_not_eow         0x00000020, /* last is not end of word */
match_not_dot_newline 0x00000040, /* \n is not matched by '.' */
match_not_dot_null    0x00000080, /* '\0' is not matched by '.' */
match_prev_avail      0x00000100, /* *--first is a valid expression
*/
match_init            0x00000200, /* internal use */
match_any             0x00000400, /* don't care what we match */
```



```

match_not_null          0x00000800, /* string can't be null */
match_continuous       0x00001000, /* each grep match must continue
*/
                                /* uninterrupted from the previous
one */
match_partial          0x00002000, /* find partial matches */

match_stop             0x00004000, /* stop after first match (grep)
V3 only */
match_not_initial_null 0x00004000, /* don't match initial null, V4
only */
match_all              0x00008000, /* must find the whole of input
even if match_any is set */
match_perl             0x00010000, /* Use perl matching rules */
match_posix            0x00020000, /* Use POSIX matching rules */
match_nosubs           0x00040000, /* don't trap marked subs */
match_extra            0x00080000, /* include full capture
information for repeated captures */
match_single_line     0x00100000, /* treat text as single line and
ignor any \n's when matching ^ and $. */
match_unused1         0x00200000, /* unused */
match_unused2         0x00400000, /* unused */
match_unused3         0x00800000, /* unused */
match_max             0x00800000,

format_perl            0,          /* perl style replacement */
format_default        0,          /* ditto. */
format_sed             0x01000000, /* sed style replacement. */
format_all            0x02000000, /* enable all extentions to
syntax. */
format_no_copy        0x04000000, /* don't copy non-matching
segments. */
format_first_only     0x08000000, /* Only replace first occurance.
*/
format_is_if          0x10000000, /* internal use only. */
format_literal        0x20000000, /* treat string as a literal */

```

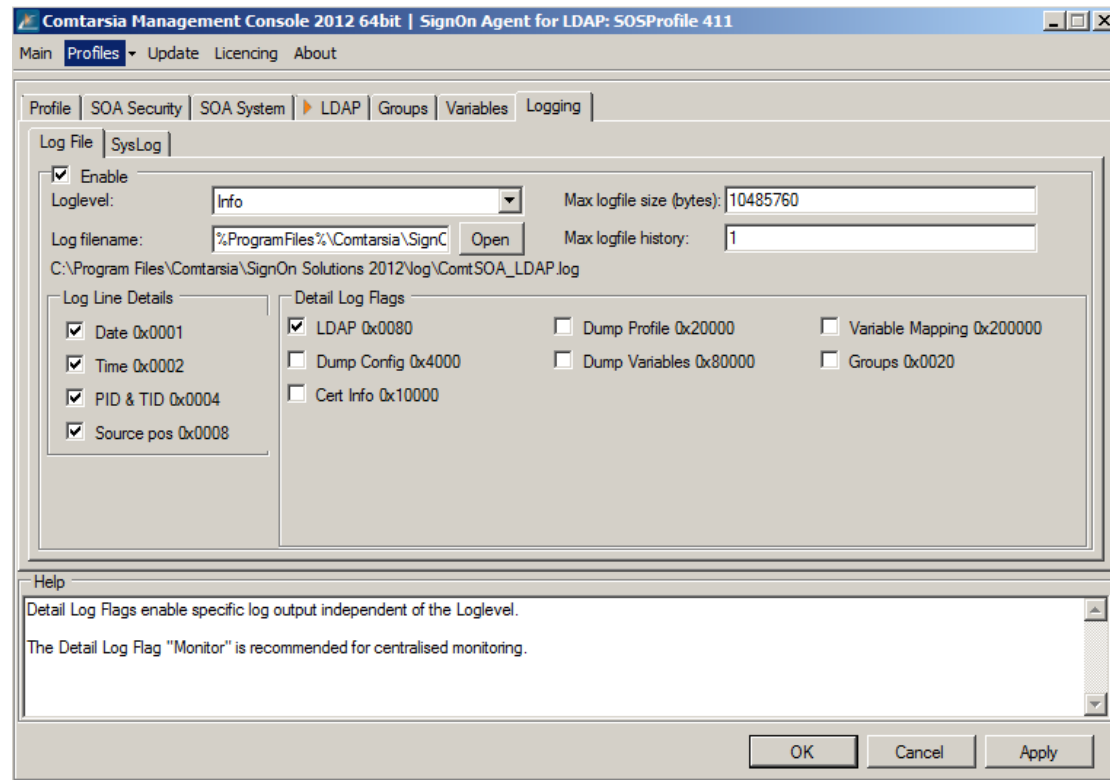
### Transmit Destination

The [Transmit Destination](#) specifies to which other Comtarsia SignOn products this variable should be sent to. (Invalid destinations are greyed out)

If the [Transmit Destination](#) 'SignOn Agent 0x8' is set (only possible on the SignOn Proxy) the option [Domains](#) can be used to specify to which SignOn Agent domains this variable should be sent. If this field is empty, the variable will be sent to all SignOn Agents.



## 4.4 Logging



### [Log File](#)

#### [Enable](#)

Enables/disables writing to the log file.

#### [Loglevel](#)

The LogLevel defines the verbosity of the log written to the specified file. The "detail log flags" are handled independently of the LogLevel.

Eg: It's perfectly valid to use "LogLevel"=None, and "Detail Log Flags"=Monitor to only log "monitoring"-messages.

- None: No logging, except detail log flags.
- Error: Only errors and specified detail log flags.
- Exception: As Error, and exception messages.
- Warn: As Exception, and warnings.
- Info: As Warn, and additional information
- Detail MSG: Everything (except unspecified log flags which have to be enabled separately)

#### [Log filename](#)

Defines the path to the log file.

#### [Max logfile size](#)

Defines the size at which the logfile should be rotated.

#### [Max logfile history](#)

Defines the amount of logfiles to be rotated.

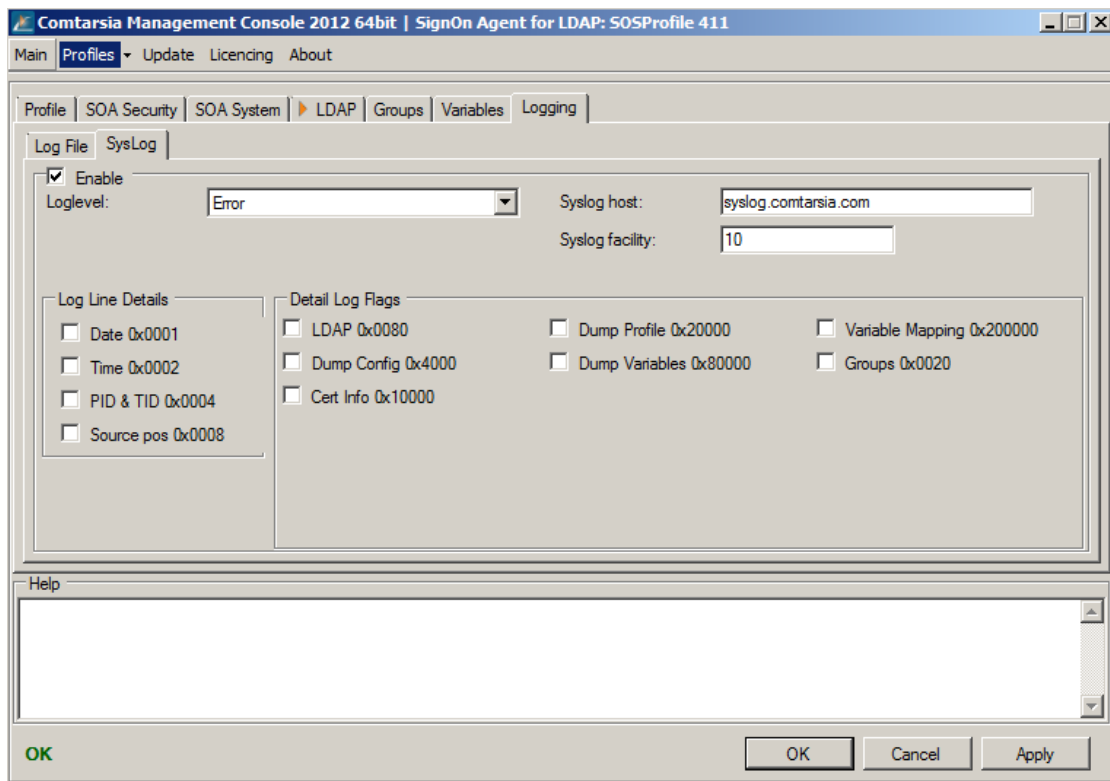
### [Detail Log Flags](#)

Detail Log Flags enable specific log output independent of the LogLevel. The Detail Log Flag "Monitor" is recommended for centralized monitoring.

### [Log Line Details](#)

Defines which details are to be included in each log line.

- Date
- Time
- PID & TID: Process and thread ID.
- Source pos: The position (line) in the source code.



### [SysLog](#)

#### [Enable](#)

Enables/disables forward of log messages to a syslog server.

### [LogLevel](#)

The LogLevel defines the verbosity of the log written to the specified file. The "detail log flags" are handled independently of the LogLevel.

E.g.: It's perfectly valid to use "LogLevel"=None, and "Detail Log Flags"=Monitor to only log "monitoring"-messages.

- None: No logging, except detail log flags.
- Error: Only errors and specified detail log flags.
- Exception: As Error, and exception messages.
- Warn: As Exception, and warnings.
- Info: As Warn, and additional information
- Detail MSG: Everything (except unspecified log flags which have to be enabled separately)

### [Syslog host](#)

Defines the central SysLog host to which the SysLog messages will be sent.

#### [Syslog facility](#)

Specifies the SysLog facility of the log messages.

#### [Detail Log Flags](#)

Detail Log Flags enable specific log output independent of the Loglevel.  
The Detail Log Flag "Monitor" is recommended for centralized monitoring.

#### [Log Line Details](#)

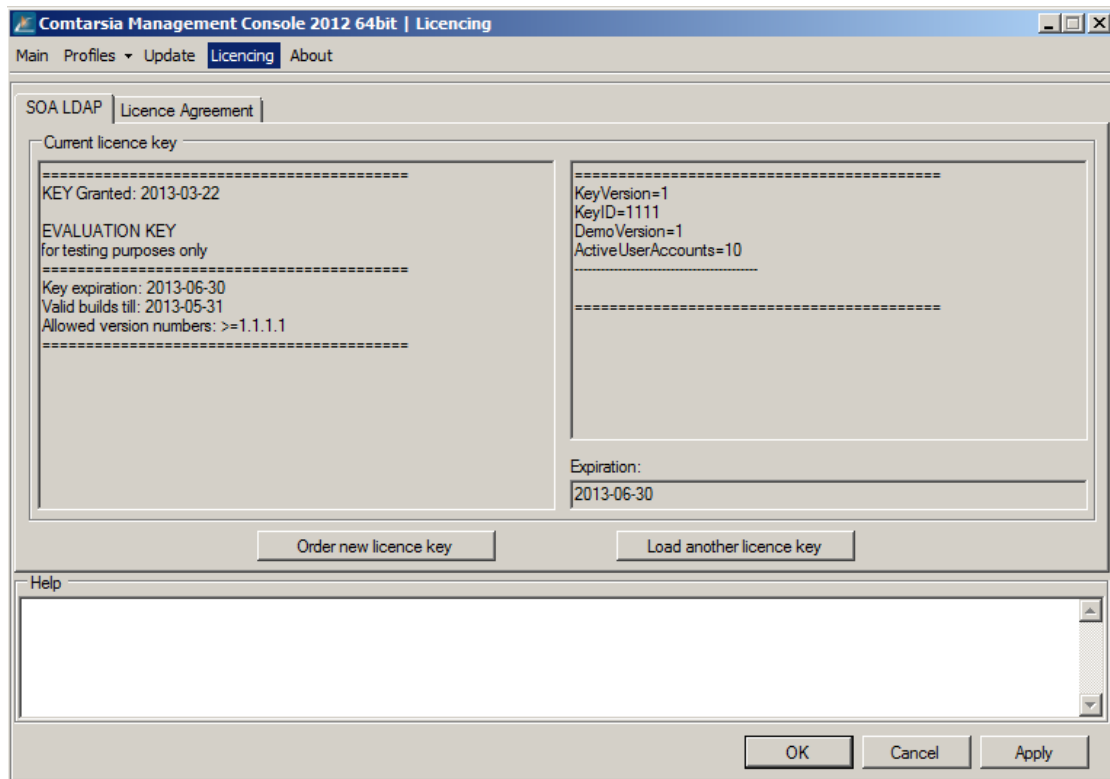
Defines which details are to be included in each log line.

- Date
- Time
- PID & TID: Process and thread ID.
- Source pos: The position (line) in the source code.





## 4.5 Licensing



Displays information about the installed license key. The button "Load another license key" opens a file chooser dialog and copies the specified license key to the directory %ProgramFiles%\Comtarsia\SignOn Solutions 2012\Key.

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