



Installation Silent Installation



APPLICATION NOTE

October 2015

Description: Guide to install ICONICS products silently.

General Requirement: Product version 10.85 or later.

Introduction

Sometimes users want to install ICONICS products silently without clicking on all the options shown in installation wizards. This is a very effective way which allows users to customize the installation and install ICONICS products in the way they like.

In case there is such a need, the user can create an answer file for the product installation. All necessary options are predefined in the INI file which is part of each ICONICS installation. The installation has to be copied on the disk and then the INI file can be customized. Then the user just executes the command from command line and the product will be installed silently, without any user interaction.

NOTE: This app note shows one of the examples how silent installation can be processed, but there might be different combinations how to set it up.

Pre-installation steps

These steps have to be followed first before you run final command executing silent installation:

1. Copy GENESIS64, Hyper Historian or AnalytiX DVD (installation files) on hard disk. You can also read it from remote network storage if you want.
2. Make sure you have enough permission to write into installation folder where CustomSetup.ini is located (e.g. GENESIS64 folder).
3. Modify the CustomSetup.ini file and use the options mentioned/explained in "Silent installation parameters" mentioned below.

Silent installation parameters

Below is the list of all parameters supported by silent installation. These parameters can be added into CustomSetup.ini and customized:

General

- **SilentAcceptLicenseAgreement=1** – should automatically set the user agrees with License agreement

SqlPrerequisite

- **Prompt=2** – 0 will not prompt, 1 will prompt, 2 prompt if Reporting Services are not installed with at least one local SQL Server
- **Launch=0** – 0 will not launch the Sql Prerequisite, 1 will launch
- **ShowProgress=1** – defines if the progress of the SQL Server installation will be visible (0 or 1)
- **InstanceName=SQLEXPRESS2014** – defines the name of the SQL Server instance which will be installed during the product installation

PrepareSystem

- **Rerun=0** – will set if the Prepare System utility was already executed, if it should be executed again

Configuration

- **ConfigureSystem=1** – enable/disable configuring the system (setting User, creating databases)
- **InstallDirSkipIfExist=1** – enable/disable skipping the check of already existing installation directory. If another installation is already installed (i.e. installation target folder is already defined), current setup will quietly default to existing path and will not consider this an error (=1) or it will stop (=0).
- **InstallDir=** - sets installation directory
- **UserValidateBeforeStart=0** – enable/disable validation of User before installation (if set this to 1, CheckSystem will try to validate your user and should provide feedback in log file and, if not silent mode, then in message-boxes)
- **UserUseSavedValues=1** – tells installation to use already used values in the installation (when set to 0, installation takes User credentials value from CustomSetup.ini file. When set to 1, installations take User Name value from <ProgramData>\ICONICS\IcoCustomSetup.ini, [User] block, saved by previous installation. Note: password is never saved and has to be retyped in CustomSetup.ini, [Configuration], UserSavedConfigPassword.)
- **UserUseCurrentUser=1** – enable/disable usage of User who runs the installation (if there is no IcoCustomSetup.ini (first install) or if UserUseSavedValues=0 - then it will use currentUser (the one that runs the installation and Domain or Server, to which user is logged in now))
- **UserRetypePassword=** - if using a saved user from IcoCustomSetup.ini or if UserUseCurrentUser=1, then retype password here.
- **UserStopIfBad=1** – enable/disable the stopping of installation when User credentials are incorrect



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- **UserCreateNewUser=0** – enable/disable creating of new User
- **NewUserDomainOrServerName=** - sets Domain or Server Name for new User
- **NewUserName=ICONICS_USER** – sets name of New User
- **NewUserPassword=** - sets password of New User
- **UserDomainOrServerName=** - sets Domain or Server Name of already existing User
- **UserName=** - sets Name of already existing User
- **UserGroup=** - sets Group of already existing User
- **UserPassword=** - sets Password of existing User, if User is taken from Setup.ini
- **SqlValidateBeforeStart=0** – enable/disable the validation of SQL Server before installation (1 – validated by System Check, 0 – validated by installation dialogs)
- **SqlUseSavedValues=1** – enable/disable preserving of already used values for SQL (when set to 0, installation takes Prefix, Samples, Overwrite, Use Unifies Database values from CustomSetup.ini file. When set to 1, installations takes those values <ProgramData>\ICONICS\IcoCustomSetup.ini, [Sql] block, saved by previous installation. Note: password is never saved and has to be retyped in CustomSetup.ini, [Configuration], SqlRetypePassword.)
- **SqlRetypePassword=** - if use SQL credentials from IcoCustomSetup.ini, retype password here
- **SqlStopIfBad=1** – enable/disable stopping of SQL Installation when User credentials are not correct
- **SqlServer=** - sets instance name of the SQL Server
- **SqlWinAuthentication=1** - enable/disable usage of SQL (0) or Windows Authentication (1)
- **SqlUser=** - sets SQL Server user
- **SqlPassword=** - if use SQL from Setup.ini, sets password SQL Server user
- **SqlMinVersion=10.00** – sets the oldest supported version of SQL
- **UseSsrs=1** – enable/disable usage of SQL Reporting Services
- **SsrsUrl=** - sets URL of SQL Reporting Service
- **Samples=1** – enable/disable installation of sample SQL configurations
- **Overwrite=0** – enable/disable overwriting of already existing SQL configurations
- **DatabasePrefix=** - sets prefix for SQL configuration databases
- **UseUnifiedDatabase=0** – enable/disable usage of Unified Database
- **UnifiedDatabaseName=IcoUnifiedConfig** – sets name for Unified Database

- **UseActiveDatabases=0** – enable/disable usage of Active Databases

Features

- **Server=** - enable/disable Server features
- **PlatformServices=** - enable/disable Platform Services features
- **AppServers=** - enable/disable Application Servers features
- **AlarmLogger=** - enable/disable AlarmWorX64 Logger feature
- **AlarmServer=** - enable/disable AlarmWorX64 Server feature
- **BACnet=** - enable/disable BACnet feature
- **EnergyAnalytiX=** - enable/disable Energy AnalytiX feature
- **FacilityAnalytiX=** - enable/disable Facility AnalytiX feature
- **FacilityAnalytiX_SN=** - sets serial number Facility AnalytiX library
- **FDD=** - - enable/disable FDDWorX feature
- **GridWorX=** - enable/disable GridWorX feature
- **HHExp=** - - enable/disable Hyper Historian Express feature
- **MMX=** - enable/disable AlarmWorX64 MMX feature
- **Email=** - enable/disable Email agent feature
- **Fax=** - enable/disable Fax agent feature
- **Marquee=** - enable/disable Marquee agent feature
- **Marquee=** - sets IP for Marquee agent feature
- **Pager=** - enable/disable Pager agent feature
- **Popup=** - enable/disable Popup agent feature
- **Skype=** - enable/disable Skype agent feature
- **Sound=** - enable/disable Sound agent feature
- **Telephony=** - enable/disable Telephony agent feature
- **Video=** - enable/disable Video agent feature
- **MobileHMI=** - enable/disable MobileHMI feature
- **ODataConnector=** - enable/disable OData Connector feature for ReportWorX Express
- **ScheduleWorX=** - enable/disable ScheduleWorX feature
- **SNMP=** - enable/disable SNMP feature
- **TrendLogger=** - enable/disable TrendWorX64 Logger feature
- **VideoWorX=** - enable/disable VideoWorX feature
- **WebApps=** - enable/disable Web Applications features
- **PortalWorX_SL=** - enable/disable PortalWorX-SL feature
- **WebHMI_Server=** - enable/disable WebHMI Server feature
- **Workbench_Server=** - enable/disable Workbench Server feature
- **ConverterWorX=** - enable/disable ConverterWorX feature
- **Client=** - enable/disable Client features
- **ClientCommon=** - enable/disable Client Common features
- **GraphWorX=** - enable/disable GraphWorX64 feature
- **Gwx_Viewers=** - enable/disable GraphWorX64 Controls features



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- **PhoneTemplates=** - enable/disable Windows Phone Templates feature
- **SymbolLibrary64=** - enable/disable Symbol Library feature
- **Templates=** - enable/disable Templates features
- **Kinect=** - enable/disable Kinect feature
- **RwxExpress=** - enable/disable ReportWorX Express feature
- **WebHMI_Client=** - enable/disable WebHMI Client feature
- **Workbench_Client=** - enable/disable Workbench Client features
- **Workbench_Viewers=** - enable/disable Workbench Viewers features
- **GenDemo=** - enable/disable GENDEMO64 feature
- **Help=** - enable/disable Help

SuiteOptions

Available only for AnalytiX installation

- **EnergyAnalytiX=** - enable/disable Energy AnalytiX suite
- **FacilityAnalytiX=** - enable/disable Facility AnalytiX suite
- **QualityAnalytiX=** - enable/disable Quality AnalytiX suite

Platforms

- **ProcType=x64** – sets supported Processor type (x64 or x32)
- **SkipErrors=0** – defines errors tolerance (0 – stop on Error, 1 – report, but continue in installation)
- Log
- **DoLog=1** – enable/disable creating of installation log file
- **LogFilePath=** - sets path to installation log file (default path is: <CurrentUser's TEMP folder>\IcoPrepareSystem.log)

Pack&Go

- **Unpack=0** – enable/disable unpacking of Pack&Go Project
- **ProjectFile=** - sets path to Project file (*.prjx)
- **PackageFile=** - sets path to Package file (*.pkgx)
- **TemplateFile=** - sets path to Template file (*.unpkgtempl)
- **SecurityUserName=** - sets User name when security is used
- **SecurityPassword=** - sets User password when security is used
- **SecurityCipherPassword=** set User cipher password when security is used

Sample configuration

This is sample configuration for the Silent configuration:

```
[General]
SilentAcceptLicenseAgreement=1
```

```
[SqlPrerequisite]
```

```
Prompt=0
Launch=0
ShowProgress=1
InstanceName=SQLEXPRESS2014
```

```
[PrepareSystem]
Rerun=0
```

```
[Configuration]
ConfigureSystem=1
```

```
InstallDirSkipIfExist=1
InstallDir=
```

```
UserValidateBeforeStart=0
UserUseSavedValues=1
UserUseCurrentUser=1
UserRetypePassword=a
```

```
UserStopIfBad=1
UserCreateNewUser=0
NewUserDomainOrServerName=
NewUserName=ICONICS_USER
NewUserPassword=
UserDomainOrServerName=
UserName=
UserGroup=
UserPassword=iconics
```

```
SqlValidateBeforeStart=0
SqlUseSavedValues=1
SqlRetypePassword=
```

```
SqlStopIfBad=1
SqlServer=THEATER
SqlWinAuthentication=1
SqlUser=
SqlPassword=
SqlMinVersion=10.00
```

```
UseSsrs=1
SsrsUrl=
```

```
SilentMode=0
Samples=1
Overwrite=0
DatabasePrefix=
UseUnifiedDatabase=0
UnifiedDatabaseName=IcoUnifiedConfig
UseActiveDatabases=0
```

```
[Features]
Server=
PlatformServices=
AppServers=
AlarmLogger=
AlarmServer=
```



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AlertWorX=
BACnet=
FDD=
GridWorX=
HHExp=
ODataConnector=
ScheduleWorX=
SNMP=
TrendLogger=
VideoWorX=

WebApps=
PortalWorX_SL=
WebHML_Server=
Workbench_Server=

ConverterWorX=

Client=
ClientCommon=
GraphWorX=
Gwx_Viewers=
PhoneTemplates=
SymbolLibrary64=
Templates=
Kinect=

RwxExpress=

WebHML_Client=

Workbench_Client=
Workbench_Viewers=

GenDemo=
Help=

[Log]
DoLog=1
LogFilepath=

[Pack&Go]
Unpack=0
ProjectFile=
PackageFile=
TemplateFile=
SecurityUserName=
SecurityPassword=
SecurityCipherPassword=

Silent Mode installation

1. Copy your predefined CustomSetup.ini file into GENESIS64 installation folder on hard disk (if there is any existing file, rename it to CustomSetup.bak).

2. Run command line (cmd) from start and navigate to installation folder (this folder is up to you, depends where you copied installation files on the disk):
`cd c:\install\GENESIS64\`
3. Now you can finally execute following command from installation folder:

```
setup.exe /s /v/qn
```

NOTE 1: Follow the same steps for Hyper Historian and Energy AnalytiX. Don't forget to copy installation files on the disk and customize CustomSetup.ini file.

NOTE 2: Make sure the product version is 10.85 or later.

Monitoring silent installation via log files

If there was any issue which occurred during silent installation you can check the installation files located here:

C:\Users\<<current user>\AppData\Local\Temp

- *IcoPrepareSystem.txt* – log file which shows what happened during system preparation phase
- *Iconics_GENESIS64.txt* – log file for e.g. GENESIS64 installation which shows how silent installation went from the beginning to the end.