



Chelm (Install Configuration)
User Guide
IGSS Version 8.0

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Chapter 1: Installing a Configuration

1.1 Overview: Installing configurations

Introduction

When you install a configuration, its validity and logical completeness is checked. What takes place outside IGSS and the relationships to the PLC remain the user's responsibility. A configuration must be error-free and approved, before it can be put into operation. The installation module automatically checks the whole configuration and reports on the installation result.

Many basic control functions are incorporated in the **Definition** module, such as preventing duplicate object names, unnamed objects, references to non-existent objects, etc.

Before you begin

Even though the installation module reports any errors encountered during the installation, it is recommended to go through the following checklist before installing.

- It is recommended to install the configuration regularly to check your definitions and correct possible errors. This is not achieved when you use the **Save** function.
- Is the configuration complete?
- Have you specified an external type for analog, table, digital, counter and string objects?
- Have you supplied PLC addresses for all object [atoms](#) (I/O points) which are not defined as **local**?
- Have you defined and linked an alarm text to each alarm **atom**, for example, **High Alarm** and **Low Alarm** for an analog object?

What does the Chelm installation module control?

The **Chelm** installation module primarily checks the connection to the physical process, internal deficiencies in the configuration and consistency between alarm atoms and alarm texts.

The installation module checks the following.

- Are all PLC addresses specified for object atoms defined as **in**, **out** and **in/out**?
- Are all alarm atoms linked to an alarm text?

The result of the installation is reported on-screen as soon as the installation is complete.

Typical installation errors

The most typical installation errors are:

- Missing external type for analog, table, digital, counter and string objects
- Missing PLC addresses for object atoms defined as **in**, **out** and **in/out**
- No alarm text linked to an alarm atom

Installing the configuration

Installing a configuration is very simple. Do one of the following:

- If the configuration is running, select **File** → **Online Update**
- If the configuration is not running, select **File** → **Install Configuration**.

In both cases, the [Installation Options](#) dialog box appears. _

- If the installation is successful, a message prompt appears informing you of how many objects the installed configuration holds. From the message prompt, you can access the configuration installation report ([MyConfig.prt](#)).
- If there are any errors in the configuration, the [Troubleshooter module](#) appears. By using the information supplied in this file, you can easily correct any errors and then repeat the installation.

Installation backup files

The latest valid configuration is always backed up in the configuration backup folder, **\7TBackup**. If you are not able to install your configuration, you can always go back to the latest valid version.

1.2 To install a configuration

When you've made changes to a configuration, you must install the changes before the operator can use the modified configuration. There are two methods available.

If the configuration is running

1. Select **File** → **Online Update**.
2. Click **Yes** to save the changes. The **Installation Options** dialog box appears.
3. Change the options, if necessary and click **OK**.
 - If the installation is successful, a message prompt appears informing you how many objects the installed configuration holds. From the message prompt, you can access the installation report ([MyConfig.prt](#)) by pressing **Yes**.
 - If there are any errors in the configuration, the **Troubleshooter** module appears assisting you in correcting the errors.
4. In most cases, you will not want to see the installation report. Press **No** to allow IGSS to complete the installation of the configuration and restart the configuration.

If the configuration is not running

1. Select **File** → **Install Configuration**.
2. If you have unsaved changes, you are prompted to save them. Otherwise, the **Chelm** module is automatically launched and the **Installation Options** dialog box appears.
3. Change the options as required and click **OK**.
 - If the installation is successful, a message prompt appears informing you how many objects the installed configuration holds. From the message prompt, you can access the installation report ([<MyConfig>.prt](#)) by pressing **Yes**.
 - If there are any errors in the configuration, the **Troubleshooter** module appears assisting you in correcting the errors.

4. In most cases, you will not want to see the installation report. Press **No** to allow IGSS to complete the installation of the configuration.
5. When installed, start the configuration from the **IGSS Starter** program. If the program is not already open, select **Start** → **Programs** → **IGSS 8.0** → **IGSS Starter**.

For details about the properties in the **Installation Options** dialog box, click the **?**, then click the relevant item in the dialog box.

Once you have set up the appropriate options, you can check **Skip This dialog box** to bypass it when you install your configuration.

Chapter 2: Installation Report

2.1 Installation report, MyConfig.prt

The configuration installation report, <MyConfig>.prt, contains the information you enabled in the [Installation Options](#) dialog box.

You may need to adjust the page setup in WordPad to fit the report contents into a normal page.

The following sections can be included in the report:

This section ...	shows the following ...	Example
Report header	<ul style="list-style-type: none"> • The user-defined headline for reports defined in System Configuration • the name of the configuration file • the number of objects in the configuration and • text bytes used 	Click here for an example.
Objects sorted by name	An alphabetical list of objects divided into the areas of the configuration. The object type and description are always shown. If you want to view all details for each object, check Detailed object information in the Installation Options dialog box.	Click here for an example.
Objects sorted by type	All objects divided into the relevant object type groups (analog, digital, etc.). There is one list for each area in the configuration.	Click here for an example.
Objects sorted by PLC address	All PLC addresses sorted by data group. Each line shows the precise address, its length, object name and atom , scan interval and external type.	Click here for an example.
	<p>If a PLC address is used more than once, Overlap is noted next to it. This will not</p>	

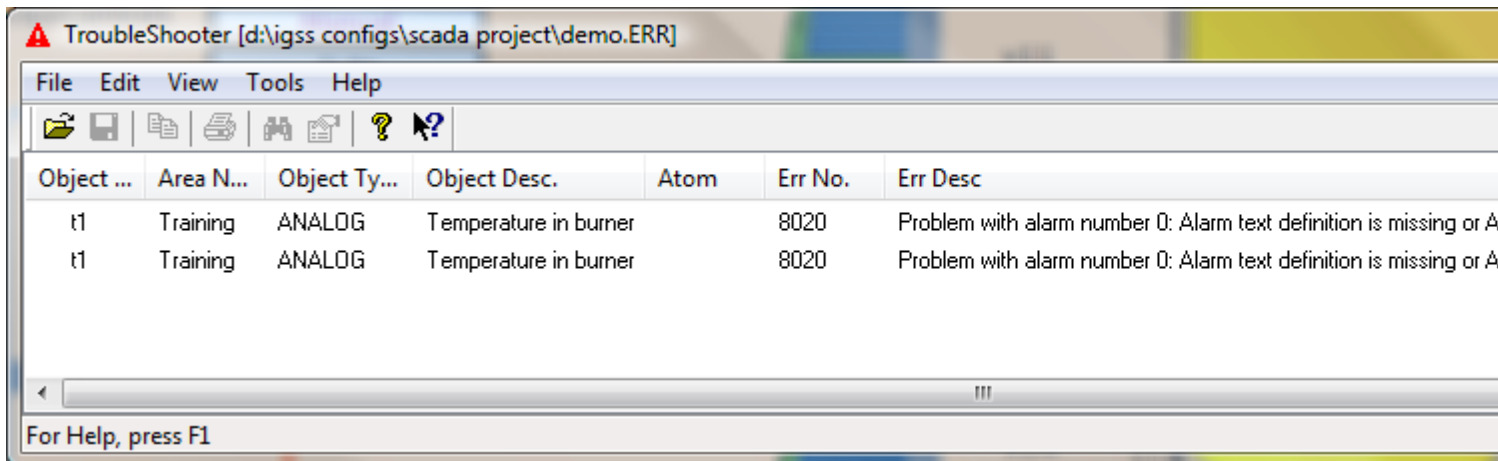
This section ...	shows the following ...	Example
	<p>result in an error when you install, because you may want duplicate addresses by design.</p>	
Objects sorted by alarms	A section for each alarm number showing the alarm text and the objects that use it.	Click here for an example.
Base classes	List of objects divided into the relevant base classes (defined by the Base interval on the Data Management Definitions tab) and data reduction methods (Minimum , Maximum , etc.).	Click here for an example.
Scan classes	<p>The driver ID, node number, PLC address and length for each object defined in the respective scan classes (defined by the Scan interval on the Data Management Definitions tab).</p> <p>The Manual section contains objects for which None was selected as scan interval.</p>	Click here for an example.
Communication efficiency information	Click here for details.	
Resource usage (last section)	<p>The usage of objects, scan records, data groups, atoms, alarm texts and data reduction methods.</p> <p>The final lines tell you that the configuration is properly installed.</p>	Click here for an example.
Station and driver setup	This section of the report shows the settings defined for all stations and drivers.	Click here for an example

Chapter 3: Installation Errors

3.1 Installation log file and the Troubleshooter

The error log file, *MyConfig.err*, contains information about errors in the configuration.

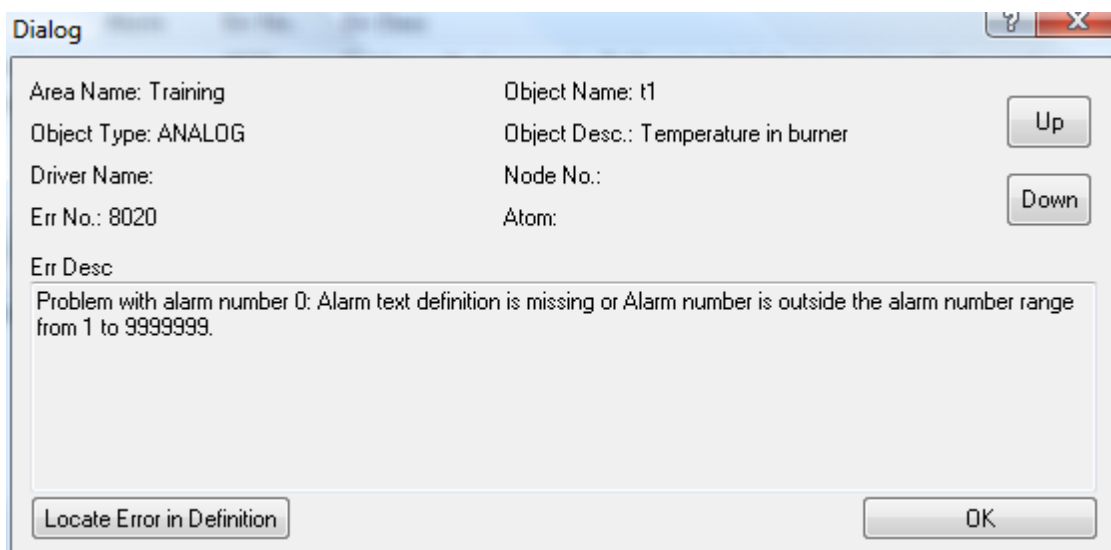
If there are errors when you install a configuration, the **Troubleshooter** module will appear.



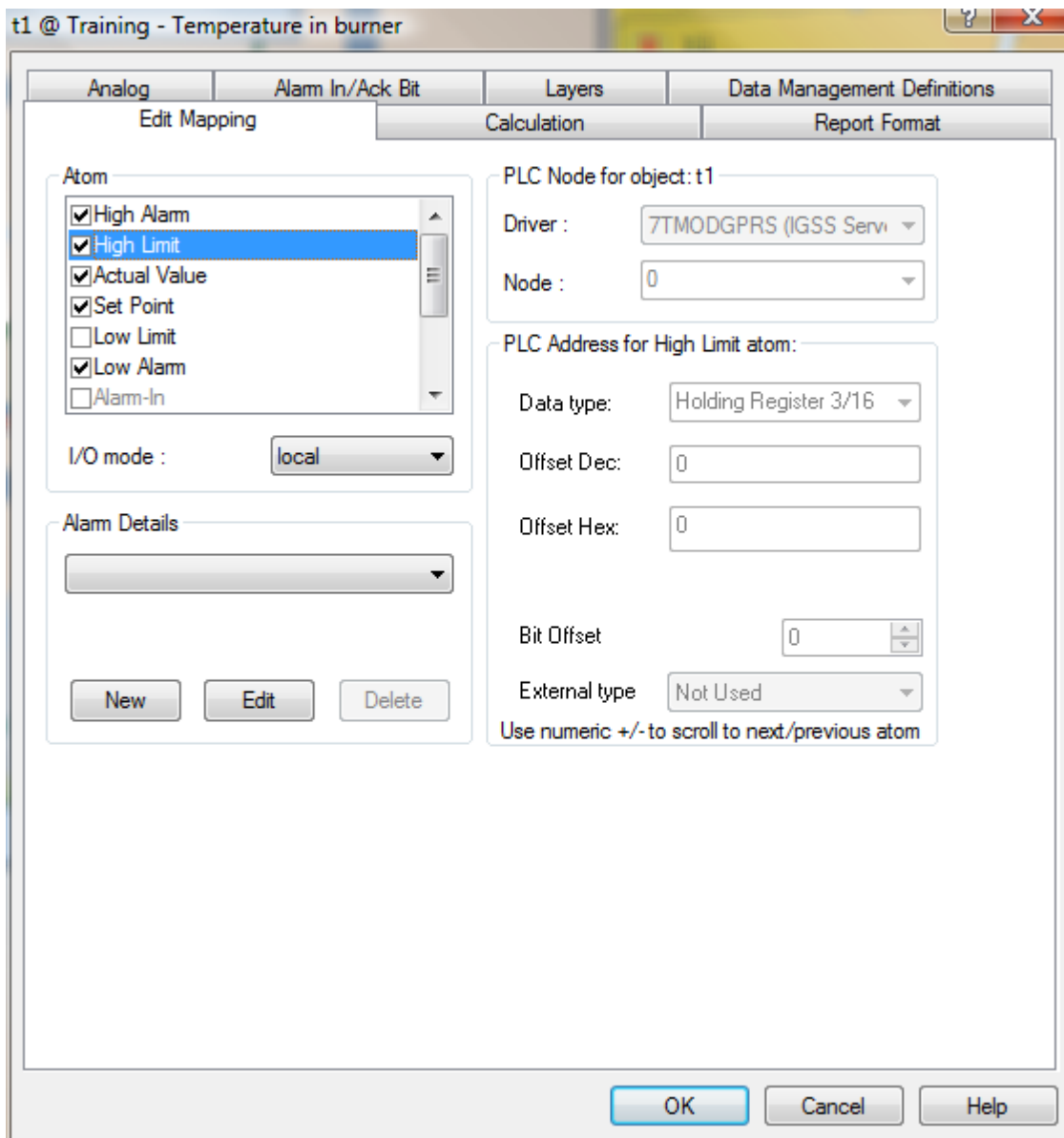
In this case, the user has forgotten to attach an alarm text to an alarm **atom** which has been enabled on the object *t1*.

To correct the error

1. Double-click the line in the **Troubleshooter** window. A dialog box appears providing further details about the error.
2. Click the **Locate Error in Definition** button. You will be taken to the affected object's dialog box where you can correct the error.



- Correct the error in the object properties dialog box. In this case, you simply need to attach an alarm text to the **High Limit** atom. Notice that the **Alarm Details** drop-down list is empty - this caused the error.



- Correct all errors and repeat the installation until all errors are eliminated.

IGSS will not allow you to start the modified configuration in Supervise, until all errors have been corrected.

Chapter 4: Dialog Box Help

4.1 Installation Options

What it shows

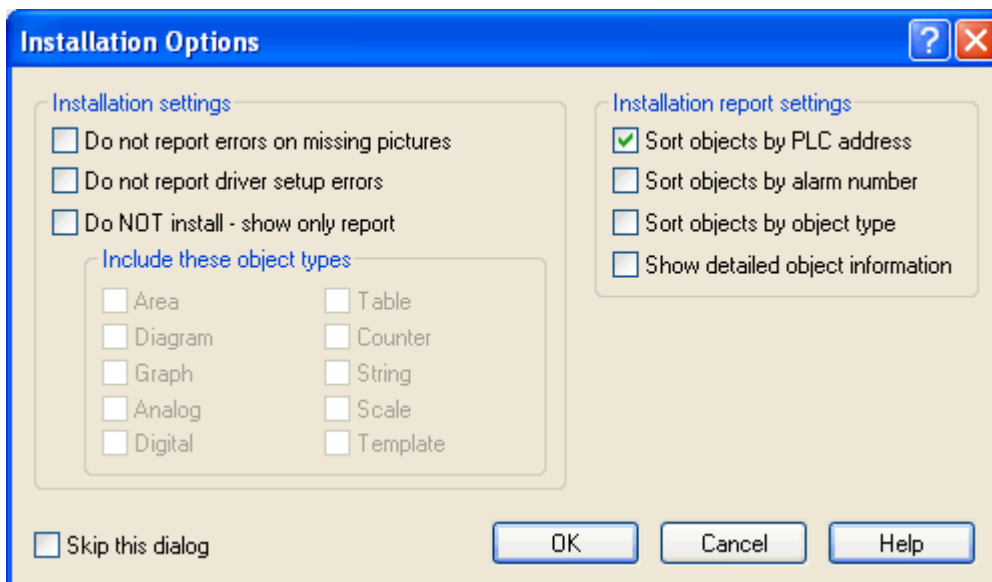
This dialog box appears when you install a configuration in the **Definition** module. It allows you to determine what you want to show in the [installation report](#), MyConfig.prt and a few other options.

For details about a property in the dialog box, click **?**, then click the item.

If you check **Skip This dialog box**, the installation will bypass the dialog box. To show it again, hold down **SHIFT** while you select **Install Configuration**.

How it looks

The figure below shows the **Installation Options** dialog box.



Correcting installation errors

Errors will be displayed in the [Troubleshooter module](#).

Chapter 5: Reference and Lookup

5.1 Conventions in this Manual

The following typographical conventions are used:

Convention	Description	Example
User interface element	When referring to labels and names in the user interface.	The Data Management tab.
User input	When the user has to type specific data in IGSS.	Type the following description: Incoming flow in Tank 2
Module name	When referring to a module in IGSS	Open the Definition module.
Note	A note emphasizes or supplements important points of the main text. A note provides information that may apply only in special cases.	By default, the timestamp is in universal time format, UTC ¹ . This can be changed in the Driver Log Filters dialog box.
Tip	A tip suggests alternative methods that may not be obvious in the user interface. A tip also helps the user in working more effectively with IGSS. A tip is not essential to the basic understanding of the text.	Alternative to this simple find function, you can also filter on text in the messages in Driver Log Filters dialog box.
Warning	A warning is an important note that is essential for the completion of a task. In some cases, disregarding a warning may result in undesirable functionality or loss of data.	If you disregard the System alarm, you may risk loss of data in the LOG and BCL files.




5.2 Getting Help in IGSS

IGSS comes with a comprehensive help system designed to help both system designers and operators to get started with IGSS as quickly as possible.

Documentation overview

¹Universal Time Coordinated (formerly Greenwich Mean Time), used as the basis for calculating time in most parts of the world. IGSS uses this time format internally in the database. You can switch between UTC and local time by enabling or disabling the "UTC" field in various dialog boxes in the system.

The IGSS documentation includes the following items:

Documentation item	Description
Getting Started	An introduction to IGSS and its most fundamental terms and features. Getting Started is intended to get you up and running as fast as possible. The manual provides a system and architecture overview followed by a number of real-life use cases you can go through before building your first real IGSS project. The manual is available in Adobe Acrobat format (.pdf).
Module help	For each module there is a help file with the same name as the module itself, for example, Igss.chm for the Master module, Igss.exe. The help file is invoked by clicking the  in the upper right corner of the module. The Table of Contents will then allow you to browse through the topics.
Dialog box help 	<p>For each dialog box there is a help topic with the following standard information:</p> <ul style="list-style-type: none"> • Overview • Preconditions • Where do I find it? • Field help <p>Dialog box help is invoked by clicking the help button  in the upper right hand corner of the dialog box.</p>
Thematic help	IGSS also provides thematic help. When there is a special theme that requires special attention from the user, a dedicated help file is provided. Examples include "Driver-Specific Help" and "Database Administration Help".

Where are the help files located?

The IGSS help files are located in the appropriate language folder under the [IGSS InstallPath]. The help files are available in English at release time.

The paths to the help files are:

Language	Path
English	[IGSS InstallPath]\ENG
Danish	[IGSS InstallPath]\DAN
German	[IGSS InstallPath]\DEU

Translated help files

Selected help files have been translated into Danish and German. If you require help files in your language, please contact 7T.

Help updates

The IGSS help files are continuously updated and improved. Check regularly with the **IGSS Update** module in the IGSS Start menu.

5.3 Version Information (IGSS Help System)

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The IGSS help files are based on software build number 9212 (initial release)

English help files

To update the help files, you must activate the **IGSS Update** module in the IGSS Start menu. There must be a connection from the PC to the Internet. Every time **IGSS Update** is run, IGSS help files as well as IGSS system files will automatically be updated on the PC from the 7-Technologies web server.

You select the languages you want to update in the **Tools** menu of the **IGSS Update** module.

If you are not able to update the IGSS system directly via the Internet, the alternative is to download the updates from the 7-Technologies website as zip files. These can then be transferred onto a CD or USB memory stick, which is then the medium used to update on site.

After running **IGSS Update**, the build numbers in various IGSS modules may change to a higher number. This signifies that the module in question has been updated with newer files. Build numbers consist of four digits, where the first digit represents the year and the last three represent the day number in the year in question. The build number can be seen in the **About** dialog box which can be activated from the **Help** menu.

An example:

Build number = 9212

9 = the year 2009

210 = The 210th day of the year

Chapter 6: Glossary

A

Application button

The Application button, nicknamed "doughnut", is located in the upper left corner of the module's window. Click the button to access the application menu. The menu contains items that were typically found in the File menu in previous versions of IGSS. In most modules, an "Options" item allows the user to define global module settings. The Application button is a new term introduced with the .NET platform and used in, for example, the Microsoft Office 2007 package.

H

HDM

HDM is the abbreviation for Hour-Day-Month.

Q

Quick Access Bar

You can customize the Quick Access Bar to include the functions you use most frequently. Simply drag the relevant function from the ribbon to the Quick Access Bar.

R

Ribbon

The Ribbon is a new term/element in the Microsoft universe. The Ribbon replaces the well-known toolbars in applications. The Ribbon provides quick access to the most commonly used functions in the application. The Ribbon is divided into logical groups (the tabs) and each tab is divided into sections (the blocks in the tab). The Ribbon is context-sensitive which means that only relevant functions are accessible dependent on the current user action.

S

SCADA

Supervisory Control & Data Acquisition

U

UTC

Universal Time Coordinated (formerly Greenwich Mean Time), used as the basis for calculating time in most parts of the world. IGSS uses this time format internally in the database. You can switch between UTC and local time by enabling or disabling the "UTC" field in various dialog boxes in the system.