

HiCAD Configuration Management

Version 2024

Performance - Features - Scenarios

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Configuration Management

HiCAD offers a central configuration management via the **Configuration Editor**. This tool allows the creation of customer-specific configurations for a wide range of tasks, such as dimensioning, annotation, workshop drawing creation, fitting of vertical ladders etc. Once adjusted to company-specific requirements, these configurations can directly be used in HiCAD, without having to specify any further settings.

The goal of our further developments is a gradual transfer of the previously used system files (*.DAT) with their adjustable parameter settings into the Configuration Editor, thus enabling a central and safe configuration management.

You can find an overview of the already transferred DAT files in the topic Transfer of DAT Files to the Configuration Editor or in the PDF file Key names.pdf.

If the PDF file will not be displayed in the Internet Explorer, use a different browser, or right-click on the link and select **Save target as**.

Various information contained in the Online Help of the Configuration Management can also be found in the PDF file ISD-Configuration.pdf.

Scope

• Hierarchical management of configuration data in the form of module properties

Settings are assigned to modules and sub-modules in a tree-like structure, and represent properties defining the **Behaviour** of a module. The categorization facilitates the retrieval of individual settings.

Central data storage

The configuration data are centrally stored in a database file in a defined location within the user system, which enables an easy backing up, restoring or copying of data.

User-specific data storage

The property definitions are stored separately from the actual user settings. This allows a working in multiuser environments while eliminating the risk that a user accidentally manipulates the configuration of other users.

Derived configurations

Configuration Management allows, in addition to the basic configuration supplied by the ISD, the utilisation of further, derived configurations for a definition of company- and/or team-specific settings. Furthermore, you have the option to offer to users alternative configurations within one derivation level.

Central administration of settings via one common graphical Configuration Editor

Eliminates the need for time-consuming and error-prone manipulations in configuration files. The integrated validation of setting values by ranges and selection lists minimizes the risk of incorrect configurations and system crashes due to invalid values.

Documentation of settings

Each setting has a multi-language short description and comments on the meaning of the setting values. The Configuration Editor offers a full text search for property names, descriptions and comments.

Update-ability of the database

The data storage in the form of user profiles enables an updating of underlying pre-settings, without having to change existing user settings. Values that have not been changed by the user will automatically be assigned the updated pre-settings.



Please note that the scope of functions available to you depends on the configuration level of your product, i.e. not all the functions described in the Help may be available in your product!

The range of selectable modules for a local license depend on the license that was purchased.

Transfer of DAT Files to the Configuration Editor

As of Version 1700, HiCAD enables a central configuration management via the **Configuration Editor**. This tool allows the creation of customer-specific configurations for a wide range of tasks, such as dimensioning, annotation, workshop drawing creation, fitting of vertical ladders etc. Once adjusted to company-specific requirements, these configurations can directly be used in HiCAD, without having to specify any further settings.

The goal of our further developments is a gradual transfer of the previously used system files with their adjustable parameter settings into the Configuration Editor, thus enabling a central and safe configuration management.

This transfer has already been realised for the following files:

- ALGPAR.DAT (as of 1800.0)
- BEMPAR.DAT (as of 1800.0)
- DIMENSIONING_SETTINGS.XML (as of 1800.0)
- STBEMPAR.DAT (as of 1801.0)
- KRPGEN.DAT (as of 1801.0)
- MASPAR.DAT (as of 1801.1)
- FITTABLE_SETTINGS.XML (as of 1801.0)
- TXTANSI.DAT (as of 1801.1)
- STABMPAR.DAT (as of 1802.0)
- AUBM3PAR.DAT (as of 1802.0)
- ALG3DPAR.DAT (as of 1901.0)
- SCHRIF.DAT (as of 1901.0)
- TXTFONT.DAT (as of 1901.0)
- FEATURE.DAT (as of 1901.0)
- LINPAR.DAT (as of 1901.0)
- SSWRITESTEP.DAT (as of 1901.0)
- NORM.DAT (as of 2000.0)
- PASSTAB.DAT (as of 2000.0)
- PASSTAB0.DAT (as of 2000.0)
- ANSGEN.DAT (as of 2100.0)
- PARAMASS.DAT (as of 2101)
- SSTINI3D.DAT (as of 2102)
- SSTINI.DAT (as of 2102)
- STB_PARAMETER.DAT (as of 2102)
- GRAPAR.DAT (as of 2201)
- KNTPAR.DAT (as of 2202)
- REF3D_ATTR_AKT.DAT (as of 2300)
- TXTPAR.DAT (as of 2300)

- TABPAR.DAT (as of 2400)
- ABWPAR.DAT (as of 2402)
- ABWCOL.DAT (as of 2402)
- ABWPOL.DAT (as of 2500)
- KRPMOD.DAT (as of 2700)
- SKIZZTEC.DAT (as of 2701)

The settings from the files were transferred to the Configuration Editor. The linked lists or the PDF file shows you where to find the settings from the DAT files in the Configuration Editor (Key names).

Key names.PDF

If the PDF file will not be displayed in the Internet Explorer, use a different browser, or right-click on the link and select **Save target as**.

Various information contained in the Online Help of the Configuration Management can also be found in the PDF file ISD-Configuration.pdf.

User Interface

The Configuration Editor enables an editing and managing of configuration. It provides a generic, hierarchical view of the data and structures contained in the database.

You start the Configuration Editor outside of HiCAD, by executing the file ISDCONFIGEDITOR.EXE in the EXE directory of HiCAD.

The permissions to change profiles or settings depend on the behaviour of the Editor when it is started:

Users without administrator rights and users with administrator rights who did not select the **Run as administrator** option upon start:

- In the Editor, settings can be edited in the profile of the user who is currently logged on Windows.
- The switching to a different user is not possible. The selection box is greyed out.

Users with administrator rights who have selected the **Run as administrator** option (right-click and select from context menu) upon start:

- The administrator profile can be changed in the Editor.
- The switching to other existing profiles is possible via the selection box, which enables a checking and/or changing of the configurations of various users.

You can also start the Configuration Editor directly from HiCAD: At the top right corner of the HiCAD window, select **Settings > Configuration**.

You require administrator rights to start the Configuration Editor!



The user interface of the Configuration Editor consists of the following areas:

- 1. Menu bar
- 2. Toolbar
- 3. Search function
- 4. User selection

- 5. Current configuration structure tree
- 6. Data record of active configuration
- 7. User Management
- 8. Path of the currently selected structure item
- 9. Version and name of the configuration database



Changes in the Configuration Editor will only take effect after you re-start HiCAD. Only some particular settings, such as dimensioning pre-settings, can be applied, via the corresponding HiCAD functions, without a restart.

Menu Bar

The menu bar of the Configuration Editor contains the following menus:

- File
- Edit
- View
- Extras



Please note:

Some of the function in the menus will only be active when a data record has been selected in the right pane of the window.

File

Export and import of setting values

The structure and the values of the configuration can be written to a XML file with the **Export** function. The export function refers to the currently selected item in the configuration tree. The exported settings can then be imported, for example, to another configuration database.

Edit

The configuration database administers values on the basis of user-specific setting profiles.

When you select a data record in the tree structure in the left pane of the dialogue window, the corresponding settings will be displayed in the right pane of the window. You can use the functions of the **Edit** menu to modify these values and the tree structure.

The changes will take effect after you re-start HiCAD.

Function	Description
Change	If you want to change a value in a data record, activate the desired item and select Change .
	You can also activate the value via double-click or by pressing the F2 key, and then overwrite it.
	Changed values, i.e. values deviating from the underlying profile level, are marked appropriately and can be reset to the original default value at any time.
Reset	This function restores the values in the active directory to the state in the database.
	For instance, if you have modified the default settings of the dimensioning rules in various directories, you can right-click the Usage-dependent entry, choose Reset , and, after confirming the security prompt with, restore the modified settings to defaults again. If you confirm with Yes , a backup ([Installation directory] > Configuration > HiCAD.cfgdb.[Date]) will be created, in case you may require the modified settings later again. If you choose No , the values will be reset without creating a backup.
	If you have marked only one value, only this value will be reset.
Copy key	Use this function to copy the names of the marked key values in the right window, for example, to a TXT file.
Rename	Use this function to rename derived structures and derived configurations in the tree
	structure. The derived structure will be identified by the III icon.
Delete	This function deletes only derived structures and derived configurations in the left pane of the Configuration Editor.
Derive structure	Use this function to copy the selected branch in the tree structure and paste it with a different name.
Select reference	If a referenced structure has been activated, this function activates the reference.
Activate con- figuration	The 2nd level of the tree structure in the left pane of the Configuration Editor consists of the areas:
	Active configuration and
	Configurations.
	The configuration that you activate with this function will be displayed in the Active configuration area and can then be modified.
Derive con-	Use this function to derive an alternative, complete configuration.
figuration	Here, too, the same principle as for structure derivation applies: Unchanged settings inherit their values from the default values (ISD or Administrator profile) of the super-ordinate configuration.
	To edit the derived configuration, select Activate configuration.

Derive Configuration

Derived configurations have a tree-like structure and function according to the same principle as the overlaying of values in user profiles, i.e. unchanged settings will inherit their values from the default values (ISD or Administrator profile) of the superordinate configuration. Configurations on the same derivation level are independent from each other.

To derive configurations, select **Edit > Derive configuration**. Derived configurations will be displayed in the left pane of the window, under **HiCAD >Configurations**. The derivation will be created from the currently active configuration.

To edit a derived configuration, select Edit > Activate configuration. The derived configuration will then be displayed under HiCAD > Active configuration and can be edited.

🜲 Important:

To prevent an accidental overwriting of the base configuration, i.e. the ISD default setting, you should only create derivations of company-specific configurations. To restore the ISD default settings, the configuration database (HiCAD.cfgdb) must be re-installed.

Derive Structure

Referenced and derived structures generate value inheritance lines. This enables you to create tree units (or individual settings) that refer to a reference tree unit and obtain unchanged values initially from the default values of the reference.

Example: Creation of a new drawing frame for workshop drawings

 In the tree structure, select ... > Drawings > Drawing frames > DIN_A0. Then select Edit > Derive structure.



2. Change the displayed key to Drawings.Drawing frames.DIN_A5.

The structure DIN_A5 that will be created now will initially inherit all values from the reference structure DIN_A0. This means that if one of the default values of DIN_A0 will be changed, this value will also change for DIN_A5. The values of DIN_A5 can be assigned new default values. If a default value in the derived structure has been changed, the value from the reference structure will no longer be inherited, i.e. changes of the corresponding value in the reference structure will no longer affect the derived value.

Use the **Copy values** option to take over changed values from a data record that is linked to DIN_A0, e.g. DIN_A3.

Updates of the reference structure containing new or deleted settings will be adopted by the derived structure.

View

Update

If you change the configuration settings in HiCAD while the Configuration Editor is open, the new settings will only be displayed after activating the **Update** function.

Example:

When saving the rules set, the rules will be transferred to the Configuration Editor. The rules which are stored there will be adjusted accordingly, new rules are added, or existing rules are deleted if required. After selecting **Update**, the changes will become visible in the Configuration Editor.

Lease note that HiCAD will apply the changes from the configuration management only after restart.

Display key names

HiCAD uses the key name to access the settings of the configuration management. The key name is identical in all languages.

A description of this name is displayed in the standard view.



ISD Configuration Editor - HiCAD 29.0.0.105 (C:\ProgramData\ISD	Software und Sys	iteme\HiCAD 2024\Hi	CAD.cfgdb]	- 0 ×
S S Update F5		A 0,		User	- 🦉
HiCA 🗸 Display key names		Name	Value	Description	Comment
A 🗄 A Show hidden items		Dimension line	s / Terminations		
✓ View mode ►	E	IFARDFLIN	0	Default value for line colour	Default value for dimension lines + projection lines
 FORMPOSTOL Text 		ISTRART2DF	1:	- • Line type for dimension lines	Line type for dimension lines (0-9)
 m Dimensioning2D ▶ m Dimensioning3D 		ABSTDF	8 mm	Distance of dimension line	Distance of dimension line to reference edge or reference point during aligning
 Fit lable DWF 		DEFABSDF	10 mm	Distance of dimension line for parallel dimensions	Distance of dimension lines in parallel dimensions
 EDGECONDITION SYSTEMTRIANGLE 		LABWDF	8 mm	Distance for outer dimensioning	Switch to outer dimensioning if distance is smaller
Plotstamp WELDELAG		IUBLDF	1.5 mm	Excess length for ext. dimensioning	Dimension line excess length for outer dimensions
GRIDFLAG	Ŧ	BHO2DF	12 mm	Minimum dimension line length	Minimum length of dimension line

View mode

The view mode enables the precise displaying of changed settings in the Configuration Editor.

Normal	All settings will be displayed in the Configuration Editor.
Only changed val- ues	Only changed values of the current user profile, which are marked with the pencil icon \swarrow , will be displayed.

Only changed	This view mode is only activated if settings in the ISD profile were changed in an update and differ from the company-specific default settings in the Administrator profile.
default set- tings	The company-specific Administrator profile will be saved in a logl file during an update. Afterwards the changed/new settings will be loaded into the ISD profile. At the end the logl file will be loaded into the Administrator profile again.
	If you load the company-specific Administrator profile after the update and select the Only changed default settings function only the changed settings will be displayed. The values of the changed settings stem from the company-specific Administrator profile.
	When right-clicking on the value the Reset function can be activated. The setting from the ISD profile which has been changed in the update will be displayed.

Extras

Language

Here you can choose between the different languages.

ISD Configuration Editor - HiCAD 29.0.0.105 [C:\Pro	graml	Data\ISD Software und Systeme\I	HiCAD 2024\HiCAD.cfg	db]			
File Edit View Extras ISD							
✓ S Z +II Language	•	German (Germany)			User		- 🥂 ,
▲ IHiCAD Units ●	· 🗸	English (United States)		Value	Comment		
Active co Find F3		French (France)	tomatically switch	OFF ~			
Drawi Database directory The second se		Hungarian (Hungary)	ews	7.874 in			
Modelling	-	Italian (Italy)					
 Engineering Engineering 	-	Polish (Poland)					
Profile Installation							
Plant Engineering							
Sheet Metal							
Assembling simulation							
Analysis							
Interfaces	*					 	
Metal Engineering							

Units

Here you can set for the Configuration Editor whether the specified values for lengths and weights are to be displayed in metric units (millimetres and kilograms) or in imperial units (inches and pounds).

The numbers are displayed rounded with the following unit. When editing the values, there is no rounding, but the numbers are displayed exactly.

📑 ISD Configuration Editor - HiCAD 29.0.0.105 [C:\ProgramData\l	ISD S	Software und Systeme\HiCAD 2024\HiCAD.cfgdb]					
File Edit View Extras ISD							
/ 🕥 🖉 📲 🗠 🖏 📲		A 🛛 💿 💂		User	r		- 🥂 🚬
Plant Engineering		Description	Value		Comment		
Image: Sheet Metal		Maximum length and weight acc. to beam type					
Assembling simulation		Maximum length	236.22	n			
Analysis		/ Maximum weight	20 lb				
DesignChecker	1						
Max. dimensions and weight of assemblies							
Max. length and weight of beams							
Max. dimensions and weight of glass panes							
Interfaces							
D 📰 PDM							
Compatibility							
System settings							
Configurations							
Analysis > DesignChecker > Max. length and weight of beams							

💾 ISD Confi	guration Edi	itor - HiCAD 29.0.0.105	5 [C:\Prog	ramD	ata\ISD	Software und System	e\HiCAD 2024\HiCAD.cfgdb]			—		×
File Edit \	View Extra	s ISD		_								
/ 🕥 🕄		Language	•			a 💿	7	Use	r			- 🧟 🚬
	Plant	Units	•	\checkmark	Metric	: [mm, kg]		Value	Comment			
▶ 🛄	Sheet	Find	F3		Imper	ial [in, lb]	ind weight acc. to beam type					
	Assen Database directory Maximum length 6000 mm											
⊿ 💷 (A 📰 Analysis 🥒 Maximum weight 9.0718474 kg											
∡	🛅 DesignC	hecker										
	📰 Max.	dimensions and weigh	nt of asser	nblie	5							
	🔠 Max.	length and weight of l	beams									
	📰 Max.	dimensions and weigh	nt of glass	pane	s _							
Þ 🌐	Interfaces				-							
Þ 📰	PDM											
Þ 📰	D 🔤 Compatibility											
Þ 📰	Image: System settings											
h 🕮 Con	figurations				*							
Analysis > Des	ignChecker	> Max. length and wei	ght of bea	ms								

The setting of the units of measurement only affects the display in configuration management. When constructing in HiCAD, the values are always converted into the unit of measurement of the drawing.

Database directory

With a HiCAD standard installation, the database of the configuration management is stored in the HiCAD installation directory at...\Configuration\HiCAD.cfgdb.

The location of the database file is entered in the Windows Registry at

HKEY_ LOCAL_ MACHINE\SOFTWARE\ISD SOFTWARE UND SYSTEME\HICAD\ [VERSIONSNUMMER]\HICAD.CFGD

and can be changed to another directory in the Configuration Editor via the menu item **Extras**, optionally by copying the current database to the new location.

Patabase directory	×
C:\ProgramData\ISD Software und Systeme\HiCAD 2024\HiCAD.cfgdb	
Copy database file	
OK Cancel	

Toolbar

To enable a quick access, some of the functions of the menu bar are also contained in the toolbar:

1	Change	If you want to change a value in a data record, activate the desired item and select Change .
۲	Reset	This function restores the selected value to the state in the database.
C2	Update	If you change the configuration settings in HiCAD while the Configuration Editor is open, the new settings will only be displayed after activating the Update function.
	Collapse all	This function collapses the structure display of the Configuration Editor and shows only the 1st level.
2	Expand 2 levels	Shows you the first 2 levels of the configuration structure.

3	Expand 3 levels	Shows you the first 3 levels of the configuration structure.
● = - ¥ = -	Expand all	Expands the complete structure display of the Configuration Editor.

Search Function

The Configuration Editor offers a full text search for value descriptions, comments and setting names. During the process, the Editor browses through the structure, beginning (or continuing) at the currently selected node of the configuration tree. Enter the desired search term and click the **Find** icon.

Frame width	#
-------------	----------

Search for data records

To perform a targeted search for particular entries (e.g. font or font size) in other data records, right-click the desired data record and select **Search value**.

📑 ISD Configuration Editor - HiCAD 29.0.0.105 [C:\ProgramData\IS	D Software und Systeme\HiCAD 2024	\HiCAD.cfgdb]	– – ×
File Edit View Extras ISD			
∥ 🕥 🛱 📲 🖭 🕄 🖤	AA 🛛 🕜 📜	User	- 🗶 🕫
🔺 🏪 HiCAD 🔄	Description	Value	Comment
Active configuration (Base configuration)	Dimension line terminations		A
 Image: Second sec	1st dimension line termination, Other dimensions	Arrowhead, filled	▼ Type of 1st dimension line termination for other dimensions
Image: Second Seco	Height, 1st dimension line termination, Other dimensions	1.5 mm	Height of 1st dimension line termination, Other dimensions
 Dimensioning, 2-D Dimensioning, 3-D 	Length, 1st dimension line termination, Other dimensions	4 n Reset	h of 1st dimension line nation for other dimensions
 Interactive dimensions Parametric dimensions 	Colour, 1st dimension line termination, Other dimensions	- Search value	r of 1st dimension line hation, Other dimensions (-1 = hsion line colour)
I III HCM dimensions III Fits table	2nd dimension line termination, Other	A Copy key	of 2nd dimension line nation for other dimensions
Image: Second Seco	Height, 2nd dimension line termination, Other dimensions	1.5 Derive structure	Delete t of 2nd dimension line nation, Other dimensions
 Bystem triangle Blat decore 	Length, 2nd dimension line termination, Other dimensions	4 n Select reference	h of 2nd dimension line nation for other dimensions
Pier Stamp Weld symbols Grid appartation	Colour, 2nd dimension line termination, Other dimensions	- Edit texts	r of 2nd dimension line nation, Other dimensions (-1 =
Got annotation Got an line in sectional view	Dimension line termination, Base line dimensions	Arrowhead, filled	for base line dimensions
Annotation template Drawing frames	Height, Dimension line termination, Base line dimensions	1.5 mm	Height of dimension line termination, Base line dimensions
Im Views Mathematic drawing derivation Madelling	Length, Dimension line termination, Base line dimensions	4 mm	Length of dimension line termination for base line dimensions
Excel Engineering	Colour, Dimension line termination, Baseline	-1: Same as dim	 Colour of dimension line termination, Baseline dimensions (-1 ▼
Drawing > Annotations > Dimensioning, 3-D > Parametric dimension	5		

In the search mask you can limit the search to a particular area of the configuration structure tree, by activating the Limit to checkbox and selecting the area of the configuration structure from the drop down menu.

Find		x
Description:	1st dimension line termination, Other dimensions	
Value:	None	\sim
🔲 Limit to	Parametric dimensions	Ŧ

Find

When you click the **Find** button, HiCAD will jump to the next data record that meets the specified search criteria. You can change this data record if desired, and continue your search.

User

The configuration database manages values on the basis of user-specific setting profiles. Two pre-defined profiles, namely **ISD** and **Administrator**, have a special function.

User	Administrator 🔹	2
Valu	ISD Administrator	
	Buildsystem	

The ISD profile forms the basis for the settings. In this profile, the HiCAD settings preset by the ISD are contained.

The Administrator profile allows the creation of company-wide default settings deviating from the ISD defaults. In the process, the Administrator profile constitutes a level overlaying the ISD profile: Unchanged values will be read from the ISD profile, so that changes of the ISD settings will automatically be transferred to the Administrator profile (and thus also to the superordinate user profiles) when being updated. Modified, company-specific values will however be retained.

Profiles of other users overlay the Administrator profile according to the same principle, with each user profile being independent of the other user profiles. If setting values are written from HiCAD into the database, this process will always be performed via the profile of the user name currently logged on to Windows. In this way, an accidental changing of user settings, company-wide settings, or ISD default settings by other users via HiCAD will be prevented.

The permissions to change profiles or settings depend on the behaviour of the Editor when it is started:

- Users without administrator rights and users with administrator rights who did not select the Run as administrator option upon start:
 - In the Editor, settings can be edited in the profile of the user who is currently logged on Windows.
 - The switching to a different user is not possible. The selection box is greyed out.
- Users with administrator rights who have selected the Run as administrator option (right-click and select from context menu) upon start:
 - The administrator profile can be changed in the Editor.
 - The switching to other existing profiles is possible via the selection box, which enables a checking and/or changing of the configurations of various users.

To edit an entry, double-click a cell in the Value column, or select a cell and press the F2 key, or click the Change icon on the Toolbar.

Changed values, i.e. values deviating from the underlying profile level, are marked appropriately can be reset to the original default value at any time.

User Management

The integrated User Management allows the creation and deletion of user profiles, as well as the deletion or the taking over of user-specific values into other user profiles. In this way, for example, an Administrator is enabled to specify settings via HiCAD managed in the Configuration Editor. These are initially saved in his/her Windows user profile, and can later be taken over to the administrator profile as company defaults, and will then apply to all users.

Click the 🏯 icon to call the User Management. The dialogue window is composed of the following tabs:

- Settings
- User
- Groups

Click the **close** icon to close the dialogue window.



The permissions to change profiles or settings depend on the behaviour of the Editor when it is started.

Settings

💾 User Management	\times
Settings User Groups	
Same configuration for all users	
If you use a central configuration database the the settings saved in the configuration database will have effect on all HiCAD users. The last saved settings apply to all users.	
A change of this setting requires a re-start of all applications using the configuration database.	
Apply and restart Editor	

Activate the **Same configuration for all users** checkbox to switch off the User Management and the Permissions Management. The settings will then always be written to the Administrator profile.

The User Management is by default deactivated when the configuration database is installed for the first time.

User

	nent		×
Settings User	Groups		
Name	Active configuration	Group assignment	bbA
008	Same as main group 🔻	1_0002, 2_0002	
023	Same as main group 💌	2_0002	Rename
Admini: Ev 1_0 1_0 2_0 Additional Ad	oup assignment for Users: 02 eryone 0001 0002 0001 0002 Iministrators	3	As default OK Cancel

User tab	
Add	Adds a new User to the table.
Rename	Enables you to change a selected User name.
Delete	Deletes the selected User without any further confirmation prompt.
Group assign- ment	The user rights are controlled via group assignments. A User can belong to several Groups. Use the Group assignment button to select Groups for Users. The main Group of the User will be highlighted if you mark this Group and then click the As default button. The main Group will be available during the configuration selection of the User. Click OK to exit the Group selection.
Adopt values	Use this function to apply the values of a selected User to the active User.
Delete values	Deletes the changed values of the selected User, thus restoring the values to that of the administrator profile / the values preset by the ISD.
Table column: Active con- figuration	The Configuration Editor allows the creation of different user configurations via the Derive configuration function. One of these configurations and the Base configuration can be assigned to the User in the Active configuration column.

D Please note:

HiCAD will use the Windows Login name in case of an utilisation via HiCAD, i.e. these names need to match when users are created.

Groups

💾 User Management		
Settings User Groups		
Name	Active configuration	Add
Everyone	Base configuration 🔹	
1_0001	Base configuration 🔹	Rename
1_0002	Base configuration 🔹	Delete
2_0001	Base configuration 🔹	
2_0002	Base configuration 🔹	
Administrators	Base configuration 🔹	
Change property value		
Activate configuration		
Derive configuration		
Rename configuration		
Delete configuration		
Derive structure		
Delete derived structure		
Rename derived structu		
Change derived texts		
Change permissions		

Group tab	
Add	Adds a new Group to the table.
Rename	Enables you to change a selected Group name.
Delete	Deletes the selected Group without any further confirmation prompt.
Table column: Active con- figuration	The Configuration Editor allows the creation of different user configurations via the Derive configuration function. One of these configurations and the Base configuration can be assigned to the Group in the Active configuration column.
Permissions for: e.g. Designers A	The rights of a Group can be specified in the Permissions for: area, by activating the corresponding checkboxes. If a User belongs to several Groups, the activated rights of these additional Groups are also available to him/her.
	The permissions enable you to specify, for example, that a User can only read the settings defined by the administrator, but not define and save his/her own settings, thus ensuring company-wide, identical settings.



- The permissions that are assigned here apply globally, i.e. for all Users of the Group.
- Use the **Permissions** function if you want to assign permissions for sub-trees of the configuration. You can then define permissions for Users and Groups.

Configuration Structure

The left pane of the Configuration Editor dialogue window contains the following entries (below HiCAD):

- Active Configuration and
- Configurations.



Under Active configuration you will find the current HiCAD settings.

Under **Configurations** you can find the base configuration and all derived configurations of the active user. Use the **Derive configuration** function to load data into the **Active configuration** area. There, you can activate individual data records and edit them in the right pane of the dialogue window.

🗼 Important:

To prevent an accidental overwriting of the base configuration, i.e. the ISD default setting, you should only create derivations of company-specific configurations. To restore the ISD default settings, the configuration database (HiCAD.cfgdb) must be re-installed.

Data Record

In the right pane of the Configurator Editor you can edit the data records that you activate in the left pane of the window. The data record consists of the **Description**, the **Value** and the **Comment**. When you display the key name via **View > Display key names**, the system name of the entry will be additionally displayed.

You define your individual profile for HiCAD via the setting of values. The values are not always numerical values. They may also be:

- a unit of measurement (mm, cm, ...)
- a string ("Collection")

- a key name
- a free entry
- a checkmark (e.g. to activate the display of a query etc.)
- a procedure (Always, Dependent on dimension plane, etc.)
- an entry from the Catalogue Editor
- a selection of attributes.

Changed values, i.e. values deviating from the underlying profile level, are marked appropriately and can be reset to the original default value (right-click and select **Reset**) at any time.

Some data records can be expanded by new data record entries.



- Changes made in the Configuration Editor will only take effect after restarting HiCAD.
- To prevent an accidental overwriting of the base configuration, i.e. the ISD default setting, you should only create derivations of company-specific configurations. To restore the ISD default settings, the configuration database (HiCAD.cfgdb) must be re-installed.

Change a value in an input field

le Edit View Extras ISD						
' 🕥 🖉 👫 😰 🛤 👫		AA 🛛 💿 📮	L	Jser		- 🧟
HiCAD	*	Description	Value		Comment	
 Example a configuration (Base configuration) Image: Image and the configuration of the configurat		🥖 Font number	Т1		For HiCAD fon TrueType fonts	ts: 1,2,3, Fo : T1, T2, T3,
A motations		Colour	5:	Dark Blue 🔻	Font colour	
Form/Positional tolerance		Size	3		East size (mm)	L
⊿ 🏢 Text		Laver	1	Change		
2-D Font		Orientation	Botton	Reset		osition of
Dimensioning 2-D				Search value		en oct entio
 Dimensioning, 2-D Dimensioning, 3-D 	E	Font	1 -	Copy key		ngle)
Fits table				Delete	Delete	
Profile Installation dimensions				D	Derece	
Edge state				Derive structure		
System triangle				Select reference		
Plot stamp				Edit texts		
Weld symbols			-			
Grid annotation				Permissions		
Automatic annotation			-			
Coating line in sectional view						
Annotation template						
Drawing frames						
Views						
🖻 🥅 Automatic drawing derivation						
🖻 🥅 Modelling						
👂 🥅 Steel Engineering						
Metal Engineering						

If you want to change the value of a data record, right-click the corresponding row and select **Change**. You can also double-click the row, or press **F2**, and then overwrite the value.

Select a value from a listbox



Some settings are selected from a listbox.

Take value from catalogue

ISD Configuration Editor - HiCAD 29.0.0.10	05 [C:\ProgramData\ISD Software und Sy:	steme\HiCAD 202	4\HiCAD.cfgdb]		- 🗆 X
File Edit View Extras ISD					
2 🕥 😂 👫 🗠 🕄 🌾	AA @			User	- 28
⊿ 🛅 HiCAD				lue	Comment
A E Active configuration (Base configuration)	Structural steels		×	mm	Clearance width 🔺
Drawing	► (ħ)	All	-		
Automatic drawing derivation	Materials	(P7		ino catalogue entry >)
Modelling	E-Steel	(BZ			Created new
Steel Engineering		10510+C	1.0711		Sheet Metal
Metal Engineering	Free-cutting steels	10510+1	1.0711		parts are BOM-
Profile Installation	····· 📰 Case-hardening steels	15510+0	1.0710		This file
Plant Engineering	Fine-grain welding steel	15510+N	1.0710		contains the
▲ Sheet Metal	Steel for surface hardening	15S10+SR	1.0710		factors for the
Bend zone tooling	Quenched and tempered s	18S10+C	1.0712	DIN6935.ABW	length change
Sheets with identical cross-se		> 18S10+N	1.0712		to be taken into
Default setting		> 18S10+SR	1.0712		account for the
Shoet development	Plastics	25CrMo4+C	1.7218		Pend zones are
Accemblic a sinculation	🕀 🔖 Glass	25CrMo4+LC	1.7218		displayed on
Assembling simulation	🕀 🚸 Wood	26Mn5+C	1.1161		this layer.
Analysis	🗄 🔷 Stone types	26Mn5+LC	1.1161		Flanges are
Interfaces	🕀 📎 Appendix	26Mo2+C	1.5417		displayed on
D m PDM		26Mo2+LC	1.5417		this layer.
Compatibility		> 37S10+C	1.0713		Some older
System settings		> 37S10+N	1.0713	0 mm	functions still
Configurations		> 3/S10+SR	1.0/13		narameter.
		42CrMo4+C	1.7225		Representation
		42CrM04+LC	1.7225	ithout segmentation V	of bend zones
		A203 A	1.0035		Value by which
		A 283 C	1.0038		the workpiece
	(OK	Consel		springs back
		UK J	Cancel .:		after removal of 🔻
Sheet Metal > Default setting					

Click the 🔟 symbol to select a value from the Catalogue Editor. Click the 🔀 symbol to delete the setting again.

Select a value by activating/deactivating a checkbox

Edit View Extras ISD				
S 🖉 🕴 🖳 🖓 📲		AA 🛛 🞯 🖕	User	Ψ
HICAD	*	Description	Value	Comment
 Active configuration (Base configuration) Drawing 		Position (right), 1st dimensioning symbol	-1 mm	relative to dimension figure, parallel to dimension line
 Image: Annotations Image: Form/Positional tolerance 		Position (superscript), 1st dimensioning symbol	0 mm	Position of 1st dimensioning symbol relative to dimension figure, vertical to dimension line
 Iext Dimensioning, 2-D Dimensioning, 3-D 		Position (right), 2nd dimensioning symbol	-1 mm	Position of 2nd dimensioning symbol relative to dimension figure, parallel to dimension line
 Image: Fits table Image: Profile Installation dimensions 	=	Position (superscript), 2nd dimensioning symbol	0 mm	Position of 2nd dimensioning symbol relative to dimension figure, vertical to dimension line
 Edge state Esstem triangle Blot stamp 		1st symbol combination	0	1st symbol combination of symbol (0-99), underline, auxiliary text, text delimiter (0-9)
 Weld symbols Grid annotation 		2nd symbol combination	0	2nd symbol combination of symbol (0-99), underline, auxiliary text, text delimiter (0-9)
Automatic annotation Coating line in sectional view		Set symbol for arc dimension	✓	Set diameter symbol or radius symbo for circular arc dimensioning?
Annotation template		Others		
 Drawing trames Views 		Reference system for circle dimensioning	Indirect ~	Reference system for circle dimensioning
Automatic drawing derivation		Circle dimension	Automatic ~	Dimension type for Circle dimension
III Modelling III Steel Engineering	Dimension orientation	2 •	Direction of dimensioning (0-1: Parall to lines, 2-5: Axially parallel)	
 Metal Engineering Profile Installation 		Position of angular dimension	Free ~	Position of angular dimension betwee or outside the selected legs
Plant Engineering	-	Z-dimensioning for correction		Allow Z-dimensioning for correction

Some settings can be selected via activation or deactivation of a checkbox. In this example the user has activated the setting of a symbol (e.g. a diameter symbol) for circular arc dimensions. **Referenced entries**

📙 ISD Configuration Editor - HiCAD 29.0.0.105 [C:\ProgramData\ISD Software und Systeme\HiCAD 2024\HiCAD.cfgdb] — 🛛 🗡							
File Edit View Extras ISD							
/ 🕥 🛱 🕴 🖺 🔢 📲		AA 🛛 🞯 🖕		User			. 🧟 🚬
⊿ 🦣 HiCAD	1	Description	Value	Co	mment		
Active configuration (Base configuration)		📾 Figure name	DINA1	mu	ist be located as file in HiCAD p	ath C:	
Image: A market of the second seco		🖙 Frame width	831 mm	Din	nensions of usable area		
Annotations		🖙 Frame height	584 mm	Din	nensions of usable area		
✓ III Drawing frames III DIN A0		Horizontal distance of insertion point to centre	0 mm				
📺 DIN A1		🖙 Vertical distance of insertion point to centre	27.63 mn	n			
DIN A2		🖙 X-minimum of locked area	643.8 mn	n Titl	e block, tables, comments		
DIN A3		🖙 Y-minimum of locked area	0 mm	Titl	e block, tables, comments		
DIN A4H		🖙 X-maximum of locked area	831 mm	Titl	e block, tables, comments		
DIN A4Q		🖙 Y-maximum of locked area	55.25 mn	n Titl	e block, tables, comments		
Views							
Automatic drawing derivation							
▷ III Modelling							
Steel Engineering							
Metal Engineering							
Profile Installation							
Plant Engineering							
Sheet Metal							
Assembling simulation							
v 🔤 PDIVI							
Swrtom settings							
Genfigurations							

In the tree structure, derived data records are marked with the 🗟 symbol. The referenced entry in the right window is marked with the 🥪 symbol. If you change a referenced value, the referencing will be removed, and the changing of the value will have no further effects any more.

Multiple value selection

💾 ISD Configuration Editor - HiCAD 29.0.0.105 [C:\ProgramData\ISD Software und Systeme\HiCAD 2024\HiCAD.cfgdb] - D X								
File Edit View Extras ISD								
		AA 🛛 🞯 🖕		User			× 🧟	۱.,
I HICAD	*	Description	Va	lue	Comment			
 Example 1 Example 2 Example 2 Example 3 Example 4 Example 4		Show system axes	F	rem ten	Create system axis a	nnotation	s in views	of
Automatic drawing derivation		Bore annotation	F	r	^	on in view	/s of type	
Production drawing	Ξ	Annotate main parts	F	From top		in views o	of the type	e
Drawing		Annotate boltings	Fi	From front		views of t	he type	
Drawing frames		Annabata Standard Darts		Left		arts in vie	ws of the	
Annotations		Annotate Standard Parts		Right				
Development		Annotate sub-parts	F	r Back		n views of	the type	
Usage assignment		Annotate weld seams	F	r Bottom		in views	of type	
Jusage-dependent				AXO landso	ape			
Implate Implate Implate				AXO portra	iit			
				Sectional vi	iew left			
View group				Sectional vi	iew right			
Views				OK				
View type assignment, Parts					Cancel	J		
View type assignment. General								
View type assignment, Part environm								
III Sheet development								
E Set of dimensioning rules								
Default								
DEFAULT(BETONSTAHL)								
DEFAULT(BLECHE)								
DEFAULT(C_PROFILE_KALT)	*							
Automatic drawing derivation > Production drawing > Usage-dependent > Template > View type assignment, General								

Some parameters allow a multiple value selection. Click the icon and select a combination of values from the displayed list. Click **OK** to close the list. In the above example the position of an annotation tag for a bore is specified via a multiple selection.

Collection



If you are asked for a Collection you can select a template file. Click the icon and edit the template files in the displayed list.

To create your own template files, just copy one of the templates supplied by the ISD and adjust it according to your individual needs. Save the templates to the HiCAD directory templates/... to enable them to be displayed in the Configuration Editor.

Add new data record entry



In some areas you have the options to add new data record entries, or new groups with data record entries. To do this, click the **New group** button, enter a name and click **OK**. The group will then be added and an empty data record entry will be shown. When you now click on the input fields, you can compose the data record entry from the values in the displayed selection boxes.

SD Configuration Editor - HiCAD 29.0.0.105 [C:\ProgramD	ata\ISD Software und System	e\HiCAD 2024\HiCAD.cfgdb] –	
File Edit View Extras ISD	44.			
	m 🛛 🚬		User	* 🚜 j
🔺 🎼 HiCAD	Usage	Part type	Usage-dependent setting	
Active configuration (Base configuration)	All	C - Beams	DEFAULT(C_PROFILE_KALT)	A
Drawing	All	Flat steel	DEFAULT(FLACHSTAHL)	
Automatic drawing derivation	All	FLUTZ profiles	DEFAULT(FLUTZ_PROFILE_281)	
Production drawing	All	Gratings	DEFAULT(GITTERROSTE)	
Drawing	All	Hollow profiles	DEFAULT(HOHLPROFILE)	
Drawing frames	All	I - Beams	DEFAULT(I_PROFILE)	
Annotations	All	Crane rails	DEFAULT(KRANSCHIENEN)	
Urage assignment	All	L - Beams	DEFAULT(L_PROFILE)	
Usage assignment	All	Beams+Profiles	DEFAULT(PROFILE)	
Mounting drawing	All	Round steel	DEFAULT(STAHLROHRE)	
Modelling	All	Hexagon steel	DEFAULT(SECHSKANTSTAHL)	
Steel Engineering	All	Steel pipes	DEFAULT(STAHLROHRE)	
Metal Engineering	All	T - Beams	DEFAULT(T PROFILE)	
Profile Installation	All	U - Beams	DEFAULT(U PROFILE)	
Plant Engineering	All	U - Beams	DEFAULT(U PROFILE KALT)	
Sheet Metal	All	Square steel		[]
Assembling simulation	All	Z - Beams	DEFAULT(Z PROFILE)	
Analysis	Others		/	
Interfaces	All	All	DEFAULT	
D 📰 PDM	AII	All	DEFAULI	
Compatibility	003_001_001			L
System settings				-
Configurations	New Delete	New group		Apply

Permissions

Permissions in the Configuration Editor basically function in the same way as the Windows file system permissions. A typical use case is the granting or withdrawing of the permission **Change property value** - either for all values (via the context menu of the configuration) or for a sub-tree within the configuration structure, including all values immediately below (via the context menu of the uppermost item of the sub-tree).

Permissions can be assigned in a User-based or Group-based way. By default, each User (except for the Administrator) belongs to the Group **Everyone**. If in the Group **Everyone** the permission **Change property value** is withdrawn, "normal" Users do no longer have the rights to change any values. Changed values in HiCAD dialogues, too, will then no longer apply if they are stored in the configuration management. It is then possible to re-assign permissions, e.g. for a particular value or a sub-tree within the configuration structure, to individual Users. Also, Users can be assigned to other Groups who have different permissions. If a User has

no write permissions for a value, this will be indicated (in an activated User profile) by the Indicated (in an activated User profile) by the

Select **Edit > Permissions**. The **Permissions...** dialogue window will be displayed. In the caption of the dialogue you will also see the name of the currently selected item in the configuration structure (in the example below this is the item "Drawing").

Name		Туре	OK
08	User		
23	Use	r	Cancel
veryone	Gro	up	
_0001	Gro	up	Apply
_0002	Gro	up	
_0001	Gro	up	
_0002	Gro	up	
rmissions for: 008			
Permission	Accept	Deny	
Change property value	1		
Derive structure			
Delete derived structure		V	
Rename derived structure	1		
Change derived texts			
Change permissions			

Select the User whose permissions you want to change. Then, specify via the **Accept** and **Deny** checkboxes, which permissions are to be granted to the User. Click the **Apply** button to apply the current settings without closing the dialogue window. Select **OK** to apply the current settings and close the window.

D Please note:

The granted permissions depend, in addition to the selected item in the structure, on the currently active/selected configuration. For example, it is possible to grant permissions starting from a specific configuration derivation level.

Use Settings in HiCAD

All changes made in the Configuration Editor will take effect after a restart of HiCAD. Certain settings, such as

pre-settings for 2-D dimensioning, can be used in HiCAD immediately after selecting the **Reload** function (2-D Dimensioning + Text > Edit >).

Use the **Load parameters** in function (3-D Dimensioning + Text Tools > Dimensioning > Tools) to take over the settings of the BEM3DPAR.DAT file.

Scenarios

Below you will find some possible scenarios when using the Configuration Management:

- How do I create a user-specific configuration if a use a standalone installation?
- How do I create a user-specific configuration if I work within a network?
- How do I switch between different configurations?
- How do I, as an administrator, assign different rights and settings to various users?
- How do I transfer the settings of a user to the administrator profile?
- I am already a HiCAD user. What effect will an update have on my configuration settings?
- How do I transfer settings from HiCAD 2023 or 2022 to the Configuration database after installing HiCAD 2024 (new installation)?
- Why are suddenly new users added to the configuration management of the configuration database, and how do I prevent individual users from changing their settings?
- How can I combine locally saved configuration databases with different settings for individual users into one, central database without losing the settings for the individual users?
- Which settings have priority if administrator settings are different from user settings?
- How do I achieve for several workstations that the administrator profile applies to all users?
- Which options for the changing of settings in the ConfigDB are available in the template files (.csv)?

How do I create a user-specific configuration if a use a standalone installation?

In this case you are "your own administrator", so to speak. If you want to change any settings, start the configuration Editor and change the administrator profile.



Settings which are saved via HiCAD, e.g. 3-D dimensioning settings, will be saved to the profile of the User who is currently logged onto the operating system, overriding the settings in the administrator profile. If any values are not available in HiCAD as expected, please check if there are user-specific settings for these values.

How do I create a user-specific configuration if I work within a network?

Start the Configuration Editor as Administrator (right-click icon and select **Run as administrator**) and derive a new configuration. In the User Management, assign the corresponding configuration to the desired User profile. You can also assign the configuration to the main Group of the User. In this way you ensure that all Users of the same main Group will use this configuration.

Switch to the User profile and edit the required settings.

If no derived configuration is required, you can also simply edit the settings after activation of the User profile in the base configuration.

How do I switch between different configurations?

To switch between configurations, select **Edit > Activate configuration** on the menu bar.

General information on how to activate configurations can be found in the topic User Management.



The permissions assigned here apply globally, i.e. to all Users of the Group.

- Select Edit > Permissions to assign permissions to sub-trees of the configuration. You can then define permissions for Users and Groups.
- Use the User Management option to activate configurations for several Users or Groups. Assign the desired configuration to the Users or Groups.

How do I, as an administrator, assign different rights and settings to various users?

Start the Configuration Editor as Administrator (right-click icon and select Run as administrator).

Use the **Permission** function to assign rights.

Permissions in the Configuration Editor basically function in the same way as the Windows file system permissions. A typical use case is the granting or withdrawing of the permission **Change property value** - either for all values (via the context menu of the configuration) or for a sub-tree within the configuration structure, including all values immediately below (via the context menu of the uppermost item of the sub-tree). Permissions can be assigned in a User-based or Group-based way.

How do I transfer the settings of a user to the administrator profile?

Start the Configuration Editor as Administrator (right-click icon and select Run as administrator) .

Select the User Administrator.

Administrator 🔹	2
ISD	
Administrator	
008	, T2
023	, 12,
088	-

Click the icon on the right. The User Management dialogue window will be displayed. In the dialogue, mark the user whose values you want to apply.

💾 User Management					
Settings User (Groups				
Name	Active configuration	Group assignment	Add		
008	Same as main group 🔻	1_0002, 2_0002			
023	Same as main group 💌	2_0002	Rename		
088	Same as main group 💌	2_0001, 1_0002	Delete		
Administrator	Same as main group 🔻	Administrators	Group assignment		
			Adopt values		
			Delete values		

Click the Adopt values button to transfer the values of the marked user into the active administrator profile.

I am already a HiCAD user. What effect will an update have on my configuration settings?

When performing an update from e.g. HiCAD 2023, your settings from the existing configuration file **HICAD.CFGDB** of your previous HiCAD version will be transferred to the Configuration Management of HiCAD 2024, namely into the Administrator profile.

When the update is performed, only the values predefined by the ISD, i.e. the "factory settings", will be changed. All other (administrator or user) settings will be preserved.

If you use a central configuration database on a server, it will be automatically detected by the update program by means of the corresponding Registry entry and will be updated. For an update of several workstations, one single update will be sufficient; a multiple update will, however, not do any harm either (as an already updated setting will not be updated again).

How do I transfer settings from HiCAD 2023 or 2022 to the Configuration Database when installing HiCAD 2024 (new installation)?

If you perform a (new) installation of HiCAD 2024, the settings predefined by the ISD will be initially used in the Administrator profile of the Configuration Management. If you want to transfer your individual settings in the file HICAD.CFGDB from HiCAD 2023 or HiCAD 2022 to the Configuration Management of HiCAD 2024, use the program **CfgDbTool.exe** in the HiCAD EXE sub-directory for this.

Furthermore, you are enabled to transfer settings from old DAT and XML files which are now managed in the Configuration Editor, to the configuration database of Version 2024.

Why are suddenly new users added to the configuration management of the configuration database, and how do I prevent individual users from changing their settings?

If, for example, a user saves the 3-D dimensioning settings via HiCAD, the corresponding user name will be automatically created in the User Management of the configuration database; the new User will be assigned to the user Group **Everyone** by default.

If you (as Administrator) want to prevent a (new) User from saving his/her individual settings, assign <u>only read</u> <u>permission</u> to the Group **Everyone**. When the user now tries to save the settings via HiCAD, a new User will still be created in the User Management, but the user-specific settings themselves will not be saved. Instead, the configuration defined by the Administrator continues to apply.

How can I combine locally saved configuration databases with different settings for individual users into one, central database without losing the settings for the individual users?

Copy the configuration database of a computer to the unlocked server directory. Then, export the active configuration on the other computers and import them to the central database again. Assign, via the User Management, to each User the corresponding configuration.

On the individual workstations, adjust the Registry entry for the storage location of the database.

Start the Configuration Editor as Administrator (right-click icon and select Run as administrator).

Which settings have priority if administrator settings are different from user settings?

User-specific settings override Administrator settings. Settings in derived configurations override settings in the superordinate configuration.

Only individual values will be "overridden": If, for example, an isolated setting contains a User value, this value will apply to the User. All other settings which have not been changed by the User will be read from the Administrator profile. The same principle applies to settings in derived configurations: If a setting in a derived configuration contains neither User values nor Administrator values, the superordinate configuration will be checked etc.

How do I achieve for several workstations that the administrator profile applies to all users?

If the Database is located on the server, nothing more needs to be done. To prevent the settings from being overridden by user-specific settings that might exist, all User values should be deleted (select the corresponding User in the User Management and select Delete values). The User Management will only be active if you started the Configuration Editor as Administrator.

In case of a local configuration database, use the Configuration Editor to export the settings on the configured computer (with Administrator profile). In any case it makes sense to remove all user-specific settings that might still exist.

On all other computers, select **File > Import** to read in the exported XML file. All user-defined settings that might still exist should be removed from all computers.

Which options for the changing of settings in the ConfigDB are available in the template files (.csv)?

The Whitepaper **Working with configuration templates** is available on this topic.

Legal notes

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Feel free to contact us! Whether at our headquarter in Dortmund or at one of our branches and subsidiaries in your vicinity - we will be happy to answer all your questions about our products and services. We are looking forward to hearing from you!

Headquarter Dortmund

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HiCAD_2902

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