

Duplicate Finder pro

Finding and merging duplicates



Duplicate Finder pro was developed by itdesign GmbH, Tübingen - www.itdesign.de

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January 2015

Contents

1	Introduction	4
	1.1 Licenses	4
	1.2 Requirements	5
2	Starting Duplicate Finder pro	5
3	Searching and merging of duplicates	6
	3.1 Merging duplicates	8
4	Configuring Duplicate Finder pro	9
	4.1 Editing search profiles	11

1 Introduction

The Duplicate Finder pro module helps you to find and merge redundant data which has been entered twice.

Duplicate Finder pro finds three types of duplicates which are checked in three separate search runs:

- □ Company addresses that were entered twice and individual contacts which are company duplicates.
- □ Individual contacts for companies with contact persons.
- $\hfill\square$ Contact persons and individual contacts that were entered twice.

Using the default settings you search all addresses. Use a filter to restrict this selection. With another filter you can specify a subset of addresses for which you want to run a duplicate search.

Duplicate Finder pro starts its search with the default search profile. If you like to use your personal search criteria, you can duplicate the default search profile and define your personal settings.

□ Each field is weighted with a value that is included in the total weight if one field of two addresses is the same. If one field value of the addresses differs, the value 0 is included in the total weight.

Only if the total of the field weightings exceeds the defined threshold value for duplication, the two addresses are detected as duplicates.

- You can define for each field whether the value should be compared identically or phonetically. For example, a phonetic comparison of the Name field results in the address for Smith being recognized as a duplicate of Smyth and the Name field is weighted accordingly.
- □ For individual fields, you can define that they are treated like identical fields if one field of the two compared addresses is empty.

1.1 Licenses

The Duplicate Finder pro module requires a separate license.

The license is entered in the Management Console, in the **Licenses** area, by the administrator and can be activated for specific users.

1.2 Requirements

In order to use Duplicate Finder pro users require the following rights:

- □ The **Merge duplicates** right to be able to use the function.
- □ **Read rights** on all address fields to find duplicates.
- □ **Editing rights** on all address fields that have to be tested as well as **Deleting rights** on addresses to merge duplicates.

2 Starting Duplicate Finder pro

Click Tools in the main window of CAS genesisWorld and choose Duplicate Finder pro.

The Duplicate Finder pro window will open.

🍥 Duplicate Finder pro 🗕 🗖 🚬	<
Start duplicate search (2) Help	
Addresses for duplicate search Check duplicates for the following addresses	
All Addresses (301 addresses)	
☑ Only show duplicate for addresses from the following subset selection of addresses	
No restriction	
Applied search profile	
Default search profile V	

Using the default settings you search all addresses. Use a filter to restrict this selection, see "Configuring Duplicate Finder pro" on page 9.

3 Searching and merging of duplicates

Click Start duplicate search in order to detect duplicates.

🐲 Duplicate Finder pro 🛛 – 🗖 🗙
Start duplicate search 🕢 Help
Addresses for duplicate search
Check duplicates for the following addresses
All Addresses (301 addresses)
Only show duplicate for addresses from the following subset selection of addresses
No restriction
Applied search profile
Default search profile 🗸 🖉 🕻 🗸

How does the duplicate check work?

The duplicate search performs three search runs. The respective search runs will only be displayed if duplicates are detected.

The sequence is always the same. Starting with the company search run followed by the individual contact search run and at the end the contact person search run.

□ Company search run

The company search run compares companies.

Companies are compared with those individual contacts in which the **Name** field is empty and the **Company** field is filled in.

□ Individual contacts search run

The individual contacts search run compares companies and those individual contacts in which the **Company** and **Name** fields are filled in.

If the name of an individual contact is identical to a company name, the individual contact is displayed as a duplicate of the company. You can convert the individual contact into the contact person of the respective company via the **Company creation** shortcut menu.

□ Contact person search run

The contact person search run compares contact persons with individual contacts.

If the Name fields of the addresses are empty they will not be compared.

Weighting

The matches after every search run will be displayed as percentage value. The value will be calculated by including the field weightings. The points scored will be divided by the available points and multiplied by 100. The result is accordance match in percent.

Example: In the default search profile, you can reach a maximum of 840 points. 420 points scored means a match of 50% that is calculated as follows:

420/840 = 0.5 0.5*100 =50%.

For each field that is matched in both addresses or that is empty, the maximum number of points is given.

Fields that are only filled in in one address do also receive the maximum number of points if the **Identify duplicate** option in the **If empty** field is set.

Fields with different and not empty values are not given any points.

- □ Important information for the duplicate check Deactivated addresses will not be checked.
- □ The addresses belonging to the Easy Invoice and ERP connect modules will be checked, see "Configuring Duplicate Finder pro" on page 9.
- □ Addresses that were excluded of the duplicate search earlier will still be detected.

Usually, if you save a new address it will be checked immediately for duplicates. You can exclude the address from future duplicate searches during that check. This option only refers to the immediate search, the duplicates will still be detected via the Duplicate Finder pro.

Toolbar functions

۲		Searc	th profile: Def	ault search profile	e - Contact pe	rson search run		- 🗆 ×
🗃 Next duplicate 👻 🤄 Merge duplicates 🍲 Dossier 👘 1 of 2 duplicates for contact persons								
Drag a colur	Drag a column header into this area for grouping.							
i Type	Company -1	Company 2	Form Title	First name ▲3	Name +2	Street	Postal c Tow	n Country
🔐 Custom	er CAS Software UK		Mr	Ralph	Smith	CAS Street 1-5	E65AB Lond	Jon United Kingdom
📔 Custom	er CAS Software UK		Mr	Ralph	Smyth	CAS Street 1-5	E65AB Lond	Ion United Kingdom
Matching rate of	f duplicates: 100 %							

- Click **Next duplicate** in the company search run to switch to the next company comparison or to the individual contact search run.
- Click Next duplicate in the individual contact search run to switch to the next individual contact comparison or to the contact person search run.
- Click Next duplicate in the contact person search run to switch to the next contact person comparison.
- Click Merge duplicates to combine the duplicate addresses.
- Click **Dossier** to show or hide the dossier.

3.1 Merging duplicates

Click Merge duplicates to merge duplicate addresses.

If there are no conflicts, the duplicates will be merged automatically.

The fields in the two addresses are then merged into one address. This merge includes any links and participants.

If conflicts occur, the **Merge duplicates** window opens. In this window you can see all conflicts.

Conflicts are, for example, different spellings of names that are detected as duplicates during a phonetic search.

۲		Ν	lerge duplicates	– 🗆 🗙			
Merge duplicates							
In this dialog box you can merge duplicates into one address. The result will be transferred to the original data record and the duplicate will be deleted.							
	Field name	1st entry	2nd entry	Result			
	Created on	15.04.2015 10:19:30	15.04.2015 10:14:38				
	Salutation	Dear Mr Smyth	Dear Mr Smith	Dear Mr Smyth			
		[Apply value >]	[Apply value >]	[Change value]			
	Person responsible	Ralph Smyth	Ralph Smith	Ralph Smyth			
		[Apply value >]	[Apply value >]	[Change value]			
	Name	Smyth	Smith	Smyth			
		[Apply value >]	[Apply value >]	[Change value]			
		[Adopt all >>]	[Adopt all >>]				
Some fields of the found addresses are unique and will automatically be transferred to the resulting address. \sim							
<	C C C C C C C C C C C C C C C C C C C			>			
	Help			OK Cancel			

- Check the field values and adopt the correct values by clicking **Apply value**.
- If you like to adopt all values of a data record click **Adopt all**.
- Click OK.

The result will be saved in the original data record and the duplicate will be deleted.

When you merge two addresses, you also merge their links. If the two addresses are not public, then their participants and rights are also merged.

4 Configuring Duplicate Finder pro

Configure the duplicate search using optional filters and the search profile in the **Duplicate Finder pro** window.

Restricting address selection

The default settings search your total address stock. You can restrict this selection via address filters.

- Select the Filter button behind the Check duplicates for the following addresses field to set the respective settings.
- Dick on the magnifying glass symbol to check the filtered data records.

Working with the Easy Invoice or ERP connect modules

The following information is important for you if you deploy the Easy Invoice module or the ERP connect module.

The default settings also check addresses that belong to the Easy Invoice or the ERP connect modules. These duplicates should not be merged to avoid inconsistent data.

Exclude the addresses from Easy Invoice and ERP connect with a filter, so duplicates will not be found. Set the following filter criteria in the **Check duplicates for the following addresses** field:

- □ Easy Invoice: Customer ID is empty
- □ ERP connect: the number field for the synchronization is empty

Restrict result list

- Select the **Only show duplicate for addresses from the following subset selection of addresses** option to show only specific addresses as duplicates.
- Select the **Filter** button and select the addresses to which duplicates should be identified.

You can, for example, compare imported addresses with existing addresses without comparing all addresses in CAS genesisWorld.

Dick on the magnifying glass symbol to check the filtered data records.

Defining search profiles

Select the **Search profile** for the duplicate search.

The default settings use the **Default search profile**. The default search profile is based on the settings for the duplicate search of the Management Console and cannot be edited in CAS genesisWorld.

The administrator can adjust the settings in the Management Console at **Miscellaneous > Addresses > Duplicate check**.

Select Edit to edit a search profile.

- To create a new search profile, select the **New** button
- You can duplicate the selected search profile by clicking the arrow next to the New button and choosing Duplicate.

4.1 Editing search profiles

Search profiles are saved publicly. Every user with the **Merge duplicates** right can see, edit or delete all search profiles and create new ones. The only exception is the default search profile that cannot be edited or deleted.

You can save any number of search profiles including all your desired search criteria.

Mark a search profile and click Edit.

٠		Edit profile		- 🗆 🗙			
🔚 Save&Close 🗙 Delete							
The default profile is configured in the Management Console at 'Miscellaneous > Addresses > Duplicate check'.							
Profile name Defa	ult search profile						
Use the following a	ddrace fields for t	he check run					
New Z Edit X Delete							
Check	Relevance	Method of co	Weighting	If empty			
Company	Field for com	Phonetic	95	Do not mark			
E-mail (business)	Field for cont	Identical	100	Identify dupli			
First name	Field for cont	Phonetic	100	Identify dupli			
Form of address	Field for cont	Identical	150	Identify dupli			
Name	Field for cont	Phonetic	150	Do not mark			
Postal code	Field for com	Identical	80	Identify dupli			
Street	Field for com	Phonetic	75	Identify dupli			
Town	Field for com	Phonetic	90	Do not mark			
Threshold value Two addresses are duplicates if the percentage of similarity is greater							
man or equal to the threshold value.							
Display of hits							
View format for li	st view	Standard (public)	¥			
Display dossier							

Editing functions in the profile window

- Click **New** in order to add a field.
- Double-click a field to edit the settings of the field.
- Alternatively, you can select the field by clicking the Edit button.
- X Mark a field and click **Delete** in order to remove the field.
- Two addresses are duplicates if the percentage of similarity is greater than or equal to the threshold value.

The percentage match of two compared addresses is the proportional value of the total of all field weightings that can be reached as total weighting.

The total weighting is calculated by the weighting of each individual field. Fields that are identified as duplicates are included into the total weighting with the indicated weighting. Fields with different contents are weighted with the value 0, see "Searching and merging of duplicates" on page 6.

- In the View format for list view field, you can define how the identified duplicates are to be displayed.
- Activate the **Display dossier** option to display the dossier directly. You can show or hide the dossier in the results window using the **Dossier** button.

Adding or editing fields

In order to edit a field or add a new one, you can configure the following settings.

Create new compare field						
Check	Check Account holder					
Relevance	Field for company					
Method of comparis Identical						
Weighting	100					
Ifempty	Identify duplicate	~				
	OK & New OK Cancel					

In the **Check** field you select the field that is to be checked.

The Availability field shows for which addresses the check field is available.

You cannot edit the **Availability** field in CAS genesisWorld directly. The administration sets the settings in the Management Console under **Miscellaneous** > **Addresses** > **Field synchronization**.

You adjust the mode in which the field content is to be compared in the Compare method field. You can choose between the Identical and the Phonetic compare method whereas Identical is the default for new fields.

In the **Identical** mode, the fields of two addresses have to be a 100% match in order to be included in the calculation with the defined weighting. The search is not case sensitive. The spelling 'Smith', for example, is identical to the spelling 'SMITH' or 'smith'.

In the **Phonetic** mode the pronunciation of two fields, established by phonetic rules, has to be a 100% match in order to be included in the calculation with the defined weighting. 'Connor' is, for example, identical to 'Konner'.

In the **Weighting** field you define how a field should be weighted.

Each field is weighted with the indicated value. This value is included in the total weighting if the fields of two addresses are matching.

If field values of one field of the addresses differ from each other, the value 0 counts for the total weighting for this field.

Only if the total of the field weighting exceeds the given threshold value for duplication, the two addresses are detected as duplicates.

✓ In the If empty field, you define how an empty field should be rated in comparison to a filled-in field.

If you select **Identify duplicate**, an empty field will be treated and weighted like an identical field during a comparison.

If you select **Do not mark as duplicate**, the empty field will be treated as being different from the field containing a value.

Example: Select the **Identify duplicate** option for the **E-mail (business)** field. The contact persons are still identified as duplicates if all fields match but the **E-Mail (business)** field is empty.