

# InFocus Document Importing Data into SuperVal



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# 1 Introduction

This document covers importing data into SuperVal for all modules.

This document explains how to import data into SuperVal from Excel or csv files and points out some of the potential issues that may arise during this process.

This document is based on Version 9.30 of SuperVal. Any screenshots included from previous versions of SuperVal are not materially different from those in V9.30.

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## 2 Data

Data can be imported into SuperVal either via an Excel file or in a CSV (comma delimited) format.

There is flexibility in naming the Standard data fields in the data files (Excel or CSV). SuperVal will attempt to map these names to the Standard pre-defined names.

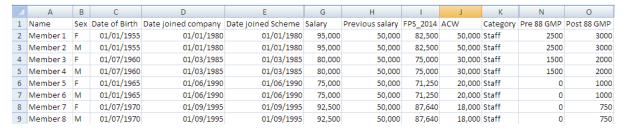
SuperVal does have pre-defined names if the User wishes to use these.

In addition, the User can (not essential) insert the type of format for each column in Row 2 – the available format types are:

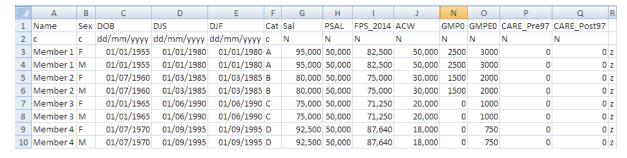
- Character: C
- Total Numeric: N (i.e. the sum if grouped e.g. salaries, contribution accounts)
- Average Numeric: n (i.e. the average if grouped e.g. Contribution Rate or Accrual Rate or Reversion %)
- Total Numeric Averaged: A (i.e. the value is an average and needs to be multiplied by NOM for a Total Numeric)
- Date: dd/mm/yyyy; ddmmyyyy; mm/dd/yyyy; mmddyyyy

Examples of how data can be imported into SuperVal, either in an Excel format or a CSV format:

1) Data with no format types in row 2



Data using pre-defined names and format types



Notes:

SuperVal will require: NAME, SEX, Category (or CAT) and Date of Birth (or DOB) - in Row 1 data file for the Data Build to work.

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- The pre-defined names are listed in the table below.
- These names can be inserted in Row 1 in any order.
- A name that is not found in the list above will be automatically prefixed with the letter 'q' and be treated as a user defined variable.
- If a Standard Data Variable name is found within a type of membership where that variable does not apply, e.g. 'SAL' found in a Deferreds Data Build, it will be prefixed with a 'q' and treated as a user defined variable.
- The above list does not include static variables such as salary frequency etc. The default value(s) will be retained if these require changing, edit the data format by **Data > Format**. Note: such changes will be lost if Data build is redone.

## 2.1 SuperVal Standard Data Variable Names

Actives	Deferreds	Pensioners	Туре	Description
NOM	NOM	-	N	Number of members to be used if there is grouped data
NAME	NAME	NAME	С	Name of each member (numbers can be used)
SEX	SEX	SEX	С	Sex of the member, must be "M" or "F"
CAT	CAT	CAT	С	Category of membership specified. Can be defined using up to 16 characters e.g. Staff, A1 etc
DOB	DOB	DOB	D	Date of Birth
DJS	-	-	D	Date Joined Company i.e. date joined for company
DJF	-	-	D	Date Joined Scheme i.e. date joined for pensionable
MOE	MOE	-	С	Mode Of Exit from statuses e.g. death, retirement
DOE	DOE	-	D	Date Of Exit (actives)
BOE*	BOE*		N	Lump Sum Benefit on Exit
PSAL	-	-	N	Previous Salary
SAL	-	-	N	Current Salary

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ACW	ACW	-	N	Accrued Contributions (actives) or Underpin (deferreds)
ACWO*	-	-	N	Accrued Contributions without Interest
EACWO*	-	-	N	Accrued Employer Contributions without Interest
GMP0	GMP0	GMP0	N	Pre 1988 GMP as at the Valuation Date
GMPE0	GMPE0	GMPE0	N	Post 1988 GMP as at the Valuation Date
-	-	SDOB	D	Spouse's Date of Birth
-	LD	LD	D	Leaving Service Date
-	-	DPC	D	Date First Pension Commenced e.g. retirement date
-	-	DOT	D	Date Pension Ceased i.e. exit date from deferred or pensioner status
		MOT	С	Mode Ceased Pension
	ТОР	ТОР	С	Type of PUP
		BOT*	N	Benefit upon Termination
		TPP*	N	Total Pension Paid
-	-	MOT	С	Mode Ceased Pension
-	-	-	N	Lump Sum on Death in Deferment
		MEMORSP	С	Member or Spouse
q	q	q	N/C/D	User Defined Variable- default row

Table 1

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<sup>\*</sup>Used for Analysis of Surplus only



## 2.2 Data for Analysis of Surplus (AOS)

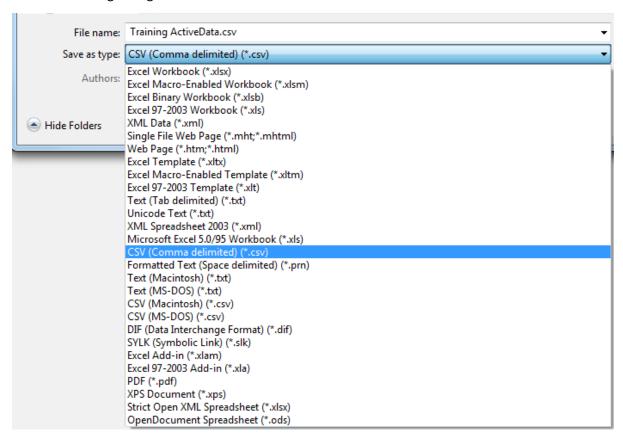
As the previous valuation results have to be rolled forward to the current valuation date and compared with the current valuation results, all the member data input to the previous and current valuations is required. This data is held at individual member data level within member status (Actives, Deferreds and Pensioners).

The AOS data must include data as at the current valuation date and also as at the previous valuation date. The data required is the same data items for the current valuation and the previous valuation.

The columns for the previous valuation data file will have the names of the variables prefixed by '#'.

#### 2.3 CSV Files

Excel supports the CSV format. In order to save a file in this format, click on **File > Save As** – you will see the following dialogue:



Select 'Save as type' as CSV (Comma delimited), specify the name of the file and click **Save**. The CSV file should be saved in your designated Input folder since **Data Puild** will only allow you to select files from here.

The names in Row 1 may be specified in any order and in upper or lower case.

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Before you save and close the document, ensure that you have selected a cell within the block of your data. Excel will then save all data up to the next blank row / column. (It will save the numbers – not the formulae, and will not save data on other worksheets).

Note that you must remove thousand separators from numerical cells prior to saving in CSV format. This is because both the CSV delimiter and the thousand separators are commas and it is not possible to distinguish one from the other when reading the CSV file.

Other features of a typical spreadsheet are usually acceptable and Excel disregards them when writing to CSV files.

If you want to insert a row containing descriptions of data in each column, this can be maintained in the Excel file but **must be removed prior** to saving the CSV file.

Finally, once you have saved the CSV file, ensure you close it before importing it into SuperVal.

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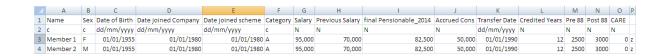
## 3 Data Build

## 3.1 Mapping Data Fields

A user can either use the Standard SuperVal Names described in Section 2.2 above, or there is now greater flexibility in the naming of the Standard field Names in the .csv /Excel member data file. The pre-defined Standard data names (e.g. DOB, DJF etc.) will continue to work best but names such as Date of Birth, Date Joined Scheme etc. can be used in the data file and SuperVal will attempt to map these names to the Standard pre-defined names.

SuperVal will then allow Users to map (or un-map, or re-map) any fields that were not mapped as Standard Fields (or were incorrectly mapped as a Standard field or mapped as the wrong Standard Field) when carrying out the data build.

The required format for data fields i.e. Standard Numeric (N) and Character (C) fields will be assumed. The format will be "guessed" for all Date fields or Non-Standard Data fields, if the format line (2<sup>nd</sup> row) is not populated. These can then be reformatted using the "Change Data Field Type" button.

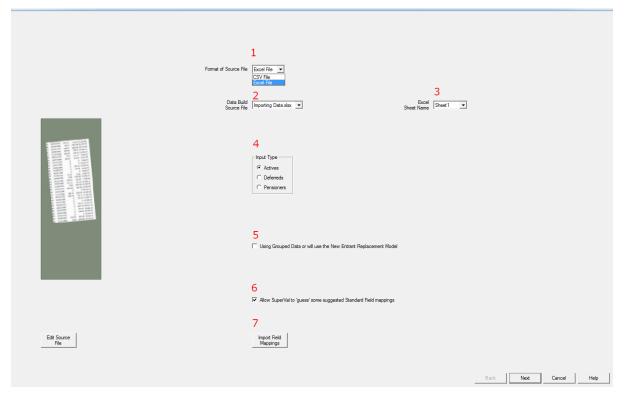


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## 3.2 Using Data > Data Build

• On clicking Data > Data Build, User be presented with the dialogue similar to the one below:



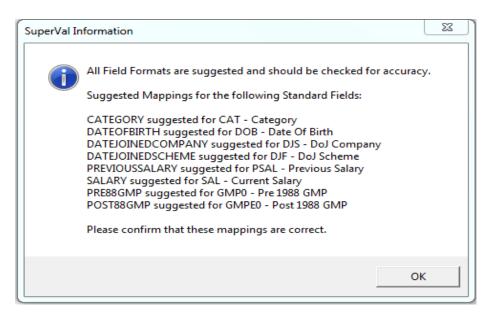
- 1. Choose between .CSV or Excel file
- 2. SuperVal will automatically locate the CSV file / Excel from the designated Input folder. (File>Properties). If there is more than one CSV / Excel file present in this folder, the User will be offered a dropdown menu to select the relevant file.
- 3. Excel files can contain more than one sheet of data select the sheet required
- 4. Select whether Membership Type is Actives, Deferreds or Pensioners
- 5. If un-ticked, columns which are numeric (or 2<sup>nd</sup> row has "n" in the format line) will be assumed to be the total value for that member for those columns. If ticked (i.e. if using grouped data or New Entrant Replacement Model) the numeric columns will be assumed to be the average value for that group of members.

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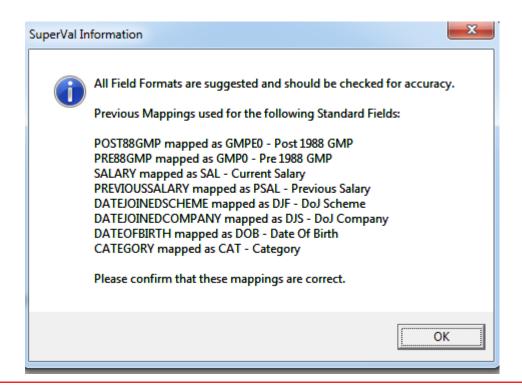


6. If names such as Date of Birth, Date Joined Scheme etc. are being used in the .csv / Excel data file, select the field "Allow SuperVal to "guess" some suggested Standard Field mappings". SuperVal will attempt to map these names to the Standard pre-defined names.

E.g. when selecting "Allow SuperVal to "guess" some suggested Standard Field mappings" followed by "Next", a warning dialogue box will be displayed, such as the following:



If a data build has already been done for this scheme, previous mappings are assumed (but can be amended). A warning dialogue box will be displayed e.g.:



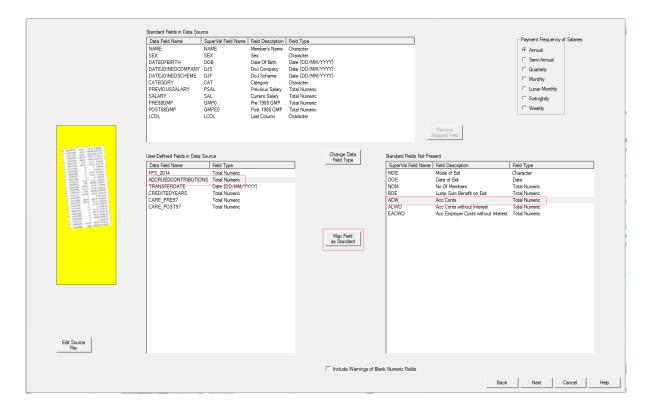
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- 7. If a data build has already been done previously for another scheme, the User can import Field Mappings from the previous folder.
- After selecting "Next" SuperVal will then list the fields present in the CSV file ('Included'), alongside standard fields that the User may also like to include ('Not Present'). The User is given the option of editing the CSV / Excel file ('Edit Source') should they decide to modify their current data file.

E.g. In this particular case, they wish "ACCRUEDCONTRIBUTIONS" to be mapped to "ACW" (accrued contributions with interest).

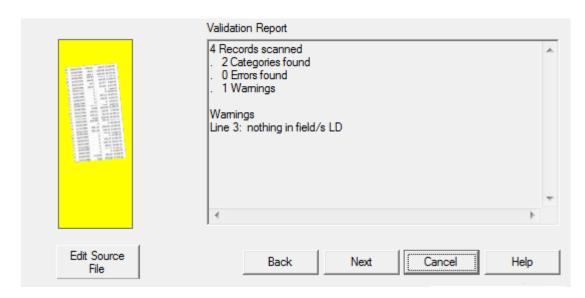
Select: User Defined Field in Data Source "ACCRUEDCONTRIBUTIONS"; Standard Field Not Present "ACW" and click on "Map Field as Standard" button.



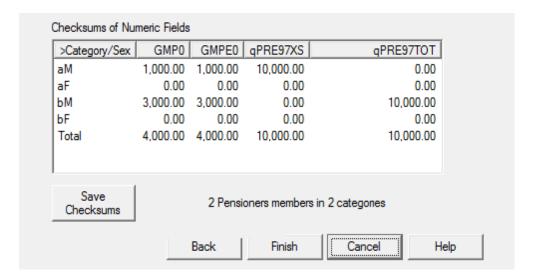
SuperVal will check the data file for any possible errors or warnings it may encounter when
performing the Data Build. If errors are present, the Data Build will not proceed until they
have been corrected by the user. To do so, the User is given the option of editing the data
file, via Edit Source File.

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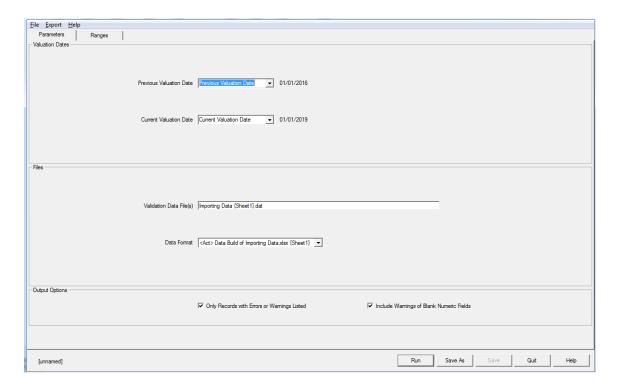
 SuperVal will then check the sums in the data file. This time, the User is given the option of saving the 'Checksums' output in a separate CSV file, which will be saved in the Input folder.
 The Checksums will include all Total Numeric Fields Types.



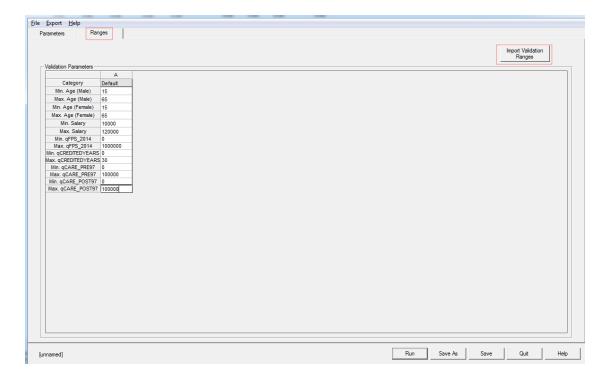
- Clicking on the 'Cancel' button will abort the procedure.
- Click 'Finish'. SuperVal will navigate the User to the validation page.

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Reasonable ranges can be specified for the Numeric Data Fields on the "Ranges" tab.



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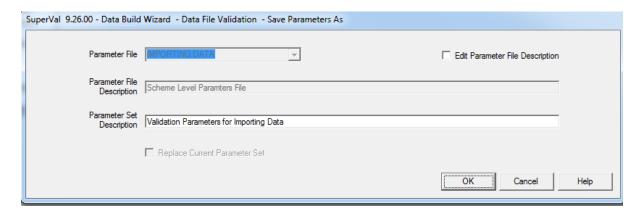
These Validation Ranges are stored as part of the Data Format (created when doing a Data Build).

The Import Validation Ranges allows Users to copy ranges used previously for the Membership class. If the User has previously set up Validation Ranges for running Data Validation, these can be copied as the starting point for current Validation Ranges. e.g.

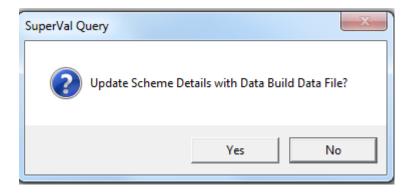
- Data Build Actives 2018.csv, set Validation ranges when validating
- Data Build Actives 2019.csv, copy Validation Ranges used in Data Build of Actives 2018.csv.

This avoids replication of setting Validation Ranges again, as Actives 2018.csv and Actives 2019.csv will usually have the same user-defined fields.

Clicking on "Run" will run the data validation



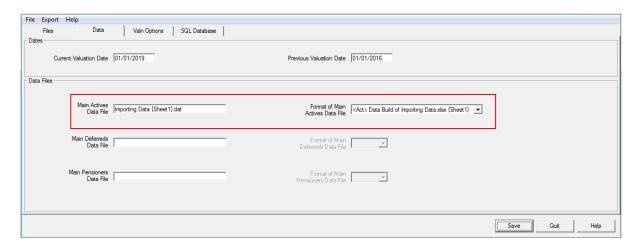
 SuperVal will then ask the User if the Scheme Details should be updated with the latest data build file.



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If "Yes" is selected the Scheme Details will be updated as shown below:



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#### 3.3 Member Data File

SuperVal will create a data file with the same name as the Excel / CSV file, to your current input folder and with a \*.DAT extension.

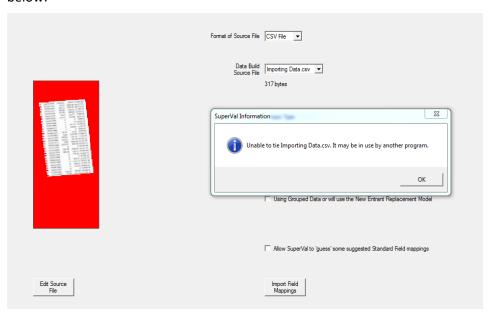
If the User wants to keep a previous version of these files, they must rename the files prior to reusing Data > Data Build.

#### 3.4 Recommended Practice

Use distinct names for the Excel / CSV files containing each type of member data i.e. actives, deferreds and pensioners.

## 3.5 Troubleshooting/Getting the Data File Right

An explanation of some of the error messages associated with setting up data in SuperVal is given below:

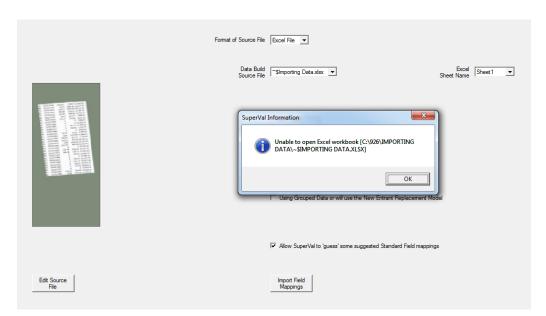


You must close the CSV data file before building the .DAT file.

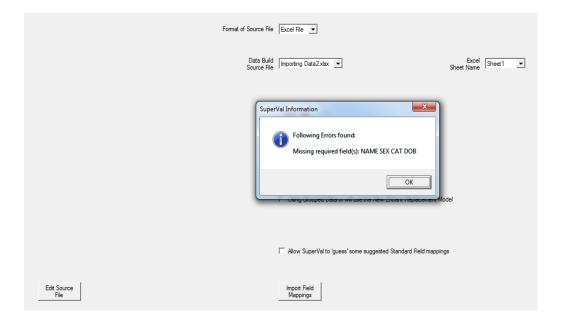
This may be done by clicking File + Close

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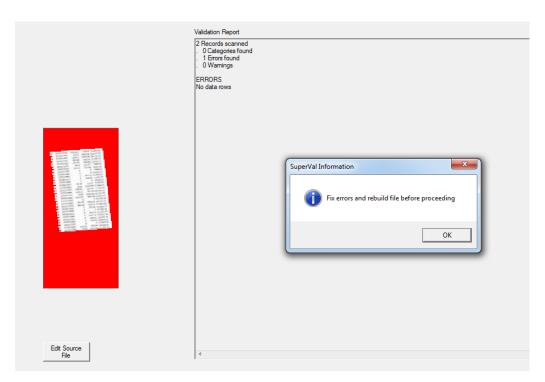
The excel data file is open and this open version has been selected note: the last saved version of the excel data file can be selected and a .DAT file built from it.



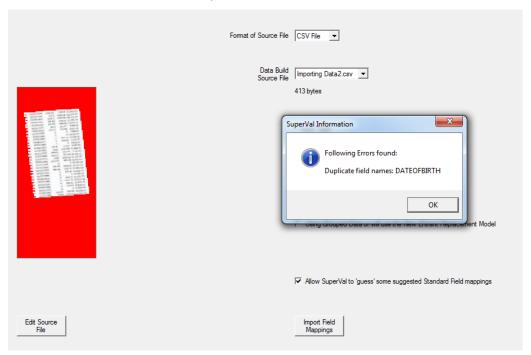
The CSV / Excel data file must contain a minimum of four columns, with the headings: NAME, SEX, CAT and DOB.

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Your data file does not contain any member records



You have specified duplicate names in Row 1.

Row 1 should contain unique names.

This validation occurs prior to adding the q prefix.

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