

Transfer Values for Deferreds in SuperVal

September 2021



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1. INTRODUCTION

Introduction

SuperVal now allows the Users to value Transfer Values for Deferreds. These calculations will be based on two decrements:

- Transfer Out Rates (TOxxx) i.e. rate of transfers at all ages up to and including Normal Retirement Age. Two-dimensional Retirement Age related Transfer Out Rates (TRxxx) are also available if you are valuing different Retirement Ages (within a Category or within a Scheme).
- Proportion of Retirees Transferring Out (TPxxx) i.e. proportion of Early Retirements or Normal Retirements who opt to take Transfer Values.
- Both can be used in a single category.



2. TRANSFER VALUES FOR DEFERREDS IN SUPERVAL

2.1 New Fields for Transfer Values

2.1.1 New Fields under Demographic

Select the TOxxx. TRxxx and TPxxx tables together with any Age Rating / % Rating.



2.1.2 New Fields under New Tab "TV Basis"

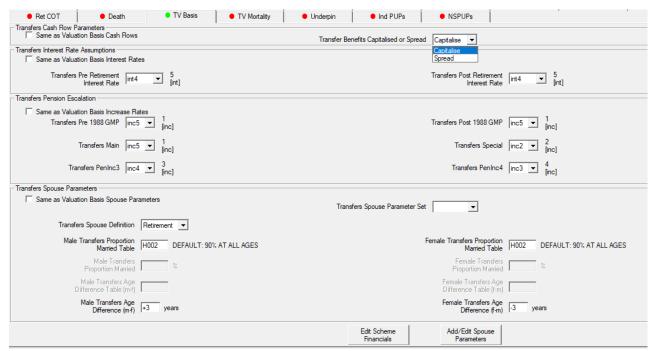
The User can select the following Transfer Value Basis assumptions:

- Transfer Benefits are to be capitalised at the date of transfer or to be spread from the Normal Retirement Date / Date of Death
- Pre and Post Retirement Interest Rates
- Pension Escalation Rates
- Spouses' Parameters

All of these can be set (dynamically) to the same values as the Valuation Basis assumptions via the tick-boxes on the left.

As we currently do not hold individual PUPs information (the PUPs are aggregated by Pension Increase) we are unable to unwind the revaluations without recalculating all the benefits. Therefore, Revaluation rates used for Transfer Values are the same values as the Valuation Basis. To approximately reflect any difference between Valuation Basis and Transfer Value revaluations, a (single) adjustment can be made to the pre-retirement interest rate assumption.





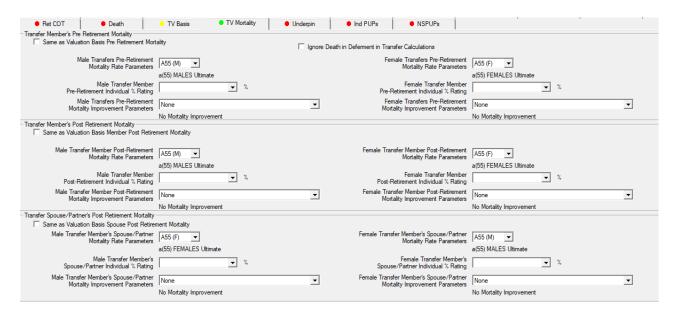
2.1.3 New Fields under New Tab "TV Mortality"

The User can select Transfer Value Basis mortality assumptions.

These can be set (dynamically) to the same values as the Valuation Basis assumptions via the tick-boxes on the left.

Death in Deferment calculations can be excluded by ticking the "Ignore Death in Deferment in Transfer Calculation" box.

Note that, consistent with the death in deferment on a Valuation Basis, the spouse/partner's post retirement mortality assumption is used on pension after deaths between transfer value date and normal retirement date.





2.2 Calculations for Transfer Values

The calculation of the value of the Transfer Value is the present value of the benefits given up, using the transfer value basis, of which the assumptions (interest, mortality, proportion married, age difference) may or may not be the same as the valuation basis. The cash flows may be capitalised at the date of exit or spread from the date of retirement / death between transfer date and date of retirement.

The benefits included are:

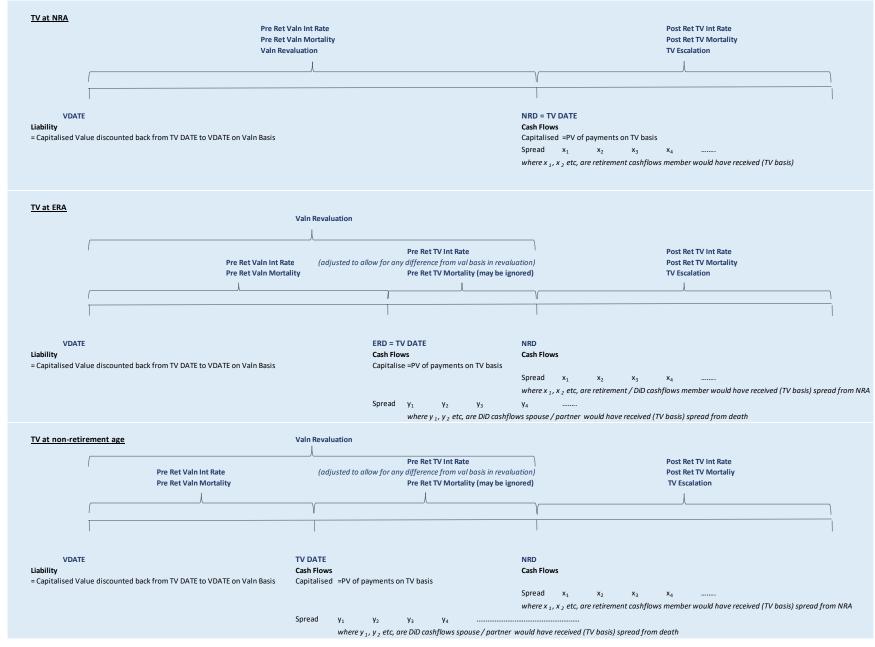
- Normal Retirement Pension for the Member
- Post Retirement pension upon death payable to spouse / partner
- Pre-Retirement pension upon death payable to spouse / partner
- Cash benefits on top only, including any cash payable upon death
- Underpin¹

Note that Early Retirement Benefits and Cash Commutation are not included; it is assumed that they would be of less value than Normal Retirement and therefore should be excluded.

The calculations / assumptions are demonstrated in the diagram below:

¹ Underpin is applied at date of transfer, rather than Normal Retirement Age or death; this is a known limitation of the Underpin code.







2.3 New Fields in Database / Excel Output

2.3.1 New Database Fields

There are 10 possible new contingencies with results in ResultsData:

ContingencyID	ContingencyName
31	Transfer at Voluntary Early Retirement
32	Transfer at NRA (or later) Retirement
33	Transfer at Late Retirement
34	Death after Transfer at Voluntary Early Retirement
35	Death after Transfer at NRA (or later) Retirement
37	Transfer Out before Normal Retirement
38	Transfer Out at Normal (or later) Retirement
39	Transfer Out at Late Retirement
40	Death after Transfer Out before Normal Retirement
41	Death after Transfer Out at Normal (or later) Retirement

2.3.2 New Fields in "Member Results Listing"

New fields for Transfer Value components at valuation date and individual Transfer Out Valuation Factors at average age of exit.

Note that the proportion of the Spouses'/Partners' Transfer Out Valuation Factors for death in deferment do not allow for revaluation.

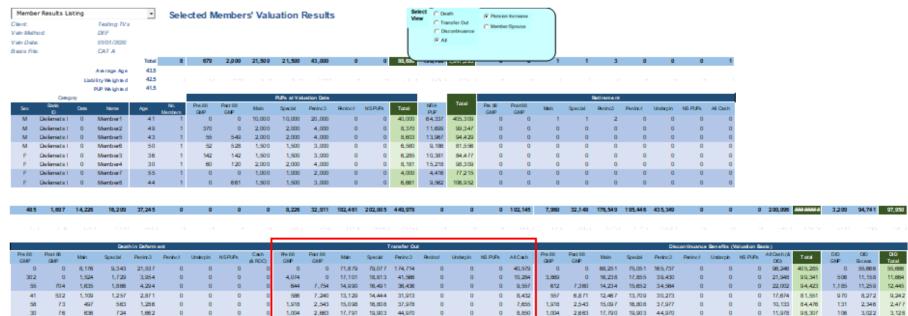


0 0 0 7,857 77,214

0 0 0 12,259 106,950 311 2,238 2,548

0 780

780



0

0

0 7,077

0 9,710

0 0 14,881 16,713 37,762

0 12,711 17,590 19,755 44,638

	Ratirement Valuation Factor's											Death in Deferment Valuation Factors									
	Predid	IGNP	Postsili	GMP	18	Min	Spa	ciri	Perk	ncià	Rin	inci	NG PUPIL		RWIN GMP	POLISIO GMP	Mén	Special	Riningi	Peninol	NG PUPIL
Age	Member	Spouse	Nember	Spouse	Morber	Spoure	Member	Space	Merber	Spoure	Minber	Spuse	Spouse	Age	Spouse	Spane	Spoure	Spoure	Spoure	Spaine	Spouse
65.0	-	-	-	-	11,284	2.172	12.264	2.533	13,374	2.984	-	-	-	54.5	-	-	18.120	20.635	23,881	-	-
65.0	10.417	1.889	-	-	11,284	2.172	12.264	2.533	13,374	2.984	-	-	-	56.5	15.390	-	17,300	19.578	22,310	-	-
65.0	10.417	1.889	12.264	2.533	11,284	2.172	12.264	2.533	13,374	2,984	-	-	-	54.5	16,029	20.635	18,120	20.635	23.881	-	-
65.0	10.417	1.869	12.264	2.533	11,284	2.172	12.264	2.533	13,374	2.984	-	-	-	56.5	15.390	19.578	17,300	19.578	22.310	-	-
-	-	-	-	-	-	-	-	-	-		-	-	-	52.5	14.807	18.439	16,358	18,439	20.928	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.5	14,943	18,989	16,778	18,989	21.602	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.5	-	-	14.279	15.881	17,712	-	-
	-	-		-	-	-	-	-		-			-	54.5	-	17,389	15,518	17,389	19.807	_	

0 0 14,882 16,713 37,763

0 12,711 17,590 19,755 44,638

0 0 170

0 311 479

189 422

539 1,220

0

0 0

	Trans to r Out Valuation Factor s											Discontinuance Valuation Factors															
	Prediti	GMP	Postsili	(GMP	N	sin .	Spe	nciri	Penti	red	Rin	inol	NG PUPIL		Predd	GMP	Poutli	GMP	M	sin	Spa	cial	Pmi	hci	Pan	irod	NG PUPIL
Fixit Age	Member	Spoute	Member	Spoure	Merber	Spoure	Member	Spane	Merber	Spoute	Minber	Spuse	Spoute	Rit Apa	Morber	Spane	Morber	Spoure	Menber	Spaine	Member	Spoute	Member	Spaine	Member	Spouse	Spoure
80.5		-	-	-	8.647	2.237	9.397	2.576	10.248	2.980	-	-	-	65.0	-	-	-	-	11.284	2.172	12.284	2.533	13,374	2.964	-	-	-
60.5	7.982	1.950	-	-	8.647	2,122	9.397	2.576	10.248	2,980	-	-	-	65.0	10.417	1.889	-	-	11.284	2.172	12.284	2.533	13.374	2.984	-	-	-
60.5	7.982	1.950	9.397	2.576	8.647	2.048	9.397	2.576	10.248	2.980	-	-	-	65.0	10.417	1.889	12.284	2.533	11.284	2.172	12.284	2.533	13,374	2.984	-	-	-
60.5	7.982	1.950	9.397	2.576	8.647	2.040	9.397	2.576	10.248	2.980	-	-	-	65.0	10.417	1.869	12.284	2.533	11.284	2.172	12.284	2.533	13,374	2.984	-	-	-
60.0	14.247	-	17,727	1.167	15.848	1.122	17,727	1.167	19,943	1.402	-	-	-	60.0	14.247	-	17,727	1,167	15.848	1.122	17,727	1.167	19.943	1.402	-	-	-
60.0	14.247		17,727	1.167	15.848	1.040	17,727	1.167	19,943	1.402	-	-	-	60.0	14.247	-	17,727	1,167	15.848	1.040	17,727	1.167	19.943	1.402	-	-	-
60.0	-	-	-	-	15.848	0.975	17,727	1.167	19,943	1.402	-	-	-	60.0	-	-	-	-	15.848	0.975	17,727	1.167	19.943	1.402	-	-	-
60.0			17,727	1.167	15.848	0.975	17,727	1.167	19,943	1,402	-	-	-	60.0	-	-	17,727	1,167	15.848	0.975	17,727	1,167	19.943	1.402	-	-	-



2.3.3 New Fields in "Tabulated Total Results Listing"

New fields for Transfer Value components at valuation date.

Past Service				1
	Retirement	Death in Deferment	Transfer Out	Total
Pre 88 GMP	0	ď	U	0
Post 88 GMP	0	0	0	0
Main	1	8,176	71,879	80,056
Special	1	9,343	79,077	88,420
Peninc3	2	21,537	174,714	196,253
Peninc4	0	0	0	0
Underpin	0	0	0	0
NS PUP	0	0	0	0
All Cash	0	0	40,579	40,580
Total	3	39,056	366,250	405,309
Member	3	0	295,709	295,712
Spouse	1	39,056	70,542	109,598

2.3.4 New column in "Cash Flows"

- If spread, the Transfer cash flows will begin from NRD or from death between date of transfer and NRD (if death in deferment is included)
- If capitalised, the cash flow will be at the TV date.

2.3.5 New tables in "Table Basis ID"

The TOxxx, TRxxx and TPxxx tables will be output here.