

What's New in version 3.20

ProAdmin version 3.20 introduces an updated look and feel, date comparison in Eligibility Definitions, retroactive payment enhancements and additional mortality flexibility. Full details plus many other new features are described below.

Interface

• **Updated look and feel.** ProAdmin windows now have a more modern look with a flatter appearance, more whitespace, and other effects for an improved user experience.

Replace	न्ति Save As New	Erase Populate Load data & run View	
Name:	Sample calculat	tion	5
Data	om Databa <mark>s</mark> e		
	Linkage:	Database Linkage	~ 13
	Person ID:	12345678	
OFre	om XML		
	Linkage:	Request	× 12
	File:		B

Type ahead is now offered in all drop-down lists, not just those that contain field names. You can stop typing when you get to the entry that you want; ProAdmin autocompletes the entry name with the first match as you type.

Linkage:	Data <mark>base Linkage</mark>	~

 Multi-edit is now easier to discover simply by looking at the button – anywhere you see the pencil with a blue star – without having to try it to find out.



- In expressions, a slight delay was added to the "tip" that displays when hovering over a blue field name or operator. Previously, it appeared instantly, potentially making it difficult to read the expression beneath.
- A cut shortcut (Ctrl+X) was added to grids to let you cut information to be pasted elsewhere.

Eligibility Definitions

 Eligibility Definitions can now compare an additional date in determining the earlier of all conditions and exceptions for eligibility. Additionally, you may select "and later" as a new option to base eligibility on the latest of all conditions/exceptions. This enhancement should negate needing to set up a Date Adjustment if, for example, a participant commences benefits at the later of date of termination or normal retirement date.

Age	Service	Points
55	10	
ter v of DOT	→ and NRD	~
Age	Service	Points
Aye		

Plan Definitions

 Miscellaneous Parameters. The option to round up monthly benefits for member and beneficiary or beneficiary only can now vary by coded field.

Round monthly benefit up for:	< by Coded Database Field > 🗸	Params
Dates & Ages Beginning of the middle of the month:	< by Coded Database Field > member & beneficiary beneficiary only	

• **Calculated Dates.** In calculated dates, a new standard date of *April 1 of year following age 70* 1/2 was added. This is useful since actuarial increases begin on the April 1 of the year following age 70 1/2, but the SECURE Acts permits later minimum required distribution dates.

Standard calculated date	~
Use as commencement date for	Plan Definition normal retirement Social Security normal retirement Minimum required distribution
Replace Save As	April 1 of year following age 70 1/2

The selection of this standard calculated date is also available in Batch Estimates and Standard output definition items.

- Retroactive Payments. Several enhancements have been implemented within retroactive payments:
 - Retroactive payments can be determined for Estimates, Final calculations, or all Estimated and Final calculations. This is useful if retroactive payments are only applicable to Final calculations.

		All estimated and final calculations	\sim	
from calculation	on commencem	Estimates Final calculations		E
🔘 assuming a	mo	All estimated and final calculations		

 Retroactive payments can now assume a monthly delay of first payment for all benefit commencement dates. Previously, a set payment start date was required to be specified. This is useful when assuming retroactive payments are for an administrative delay.

O from calculati	on commen	cement date(s) to actual payment start date of	\sim
essuming a	4	month delay of first payment	

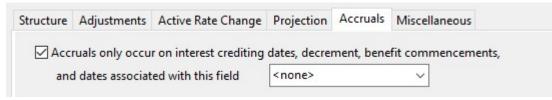
• If applying interest to retroactive payments based on an interest rate table, the rate can now be the prior month's interest (such as if banker's interest rules are in place for the plan) or be frozen at a specified date (such as if retroactive payments are accumulated with the interest rate applicable as of the normal retirement date).

Apply interest using (annual rat	e):	
◯ Constant		
○ Constant from database fie	ld 🗸	
Based on Interest Rate Table	PPA 1st segment rate	~
Use prior month interes	t	
Freeze at NRD	~	

• The retroactive payment calculation results exhibit now has a footnote with the interest rate details to facilitate checking.

Benefit Formula Components

 Cash balance. A new option on the Accruals tab under the Interest Crediting topic limits service, basis, and interest accruals to interest crediting dates, decrement dates, and benefit commencement dates, plus the date(s) associates with an optional date field. Values at all other dates will not be calculated but will display the values from the previous date where the values were calculated. This option will prevent small rounding discrepancies than may have occurred when accruals were calculated at every potential date.



- Canadian Registered Pension Plans YAMPE. Two new accrual basis operators were added to accommodate Canadian plans:
 - #YAMPE yearly additional maximum pensionable earnings
 - #AVGYAMPE n the n-year average of the YAMPE

YAMPE can now also be referenced as a Salary Limit in a Salary Definition or under the Salary parameters of a Custom Operator.

Actuarial Equivalence

- You can now select to use zero mortality in the deferral period. This is useful in particular if assuming zero mortality in deferral for late retirement calculations, but it can also apply to payment form calculations (including 415 maximum calculations which reference the plan assumptions).
- If using a dynamic mortality table, you can now freeze Mortality at a date defined in a field.

Mortality Member	
IRS 2018-2023+ (MP16-21) Static Mortality (dynamic)	~ []
Beneficiary	
IRS 2018-2023+ (MP16-21) Static Mortality (dynamic)	~ []
Use the current applicable mortality for 417(e)	
Use zero mortality in any deferral period	
Freeze mortality at date in field:	~

The freeze at a field option is also available in Annuity Factor mortality parameters (the zero mortality during deferral option was already available).

Mortality Rates

 The IRS 2024+ Applicable Mortality Table for 417(e) (dynamic) and IRS 2024+ Applicable Mortality Table for 417(e), 0 Pre-Comm (dynamic) will be used through 2025 since no new dynamic 417(e) table will be released for 2025.

Interest Rate Tables

• A new option allows you to freeze an interest rate table at a specified date.

Historical Inte	erest Rate Table:	Type:	ALL	~	
30_Year_Trea	s_Rate.csv			~	View Source
Adjustments					
Only use	initial spot rates				

Age Definitions

 Override beneficiary age. The option to 'override beneficiary age to' is now always enabled. This permits the calculation of the beneficiary age to differ from the calculation of the member age. Previously, the calculations were required to use the same methodology if member age was set to nearest or last birthday. (This enhancement was released as a 3.19 patch but is included here in case you missed it.)

	finition - [<new></new>				?	>
Replace	뭆 Save As <u>N</u> ew	Erase	ے View			
Name:	Years & compl	eted months				Auto
Age defi	inition:					
0.0102000000000000000000000000000000000	earest					
OLa	st birthday					
(€) Ye	ars and comp	leted v mo	onths			
OEx	act					
Note:	Factors will be in	nterpolated to th	e fractional age			
	ternate member	11124	-	~		
		ry date of birth		×		
Alt						
	nd age to	decimal plac	es			
Roun		1				

Census Definitions

• **Data Defaults.** A new option defaults missing scalar date fields to 1/1/1900. This eliminates the need to set up data defaults for fields used in a benefit formula but that only contain data for relevant records.



Output Definitions

 Final Average details. Output Definitions now allow you to write out the Final Average Accrual Definition results to XML or Access, similarly to the Cash Balance and Career Average Accrual Definitions detailed results that were previously available. For example, after updating an Output Definition referencing an XML Output Linkage to "Return benefit formula component details" for a final average formula component, the following output would be included in the XML:

<Details>

<Date>2017-12-31</Date> <MemberAge>54.25</MemberAge> <BenefitService>28.5</BenefitService> <AccrualRate>0.57</AccrualRate> <AccrualBasis>160120.950396485</AccrualBasis> <BFCResult>91268.9417259963</BFCResult> Details>

</Details>

- XML Output Linkage
 - Payment form name. The payment form name can now be selected as a Key Field in XML Output Definition results. This feature will allow client-specified names of payment forms to be extracted and used by other systems or communications.

– Payment Form Detail ———		
Code:	uniqueBenefitld	K
Percent:	SecondaryPercentage	I
Units:	Duration	I
🗹 Name:	BenefitDescription	I C
Normal indicator:	IsMarriedNormalForm	I
Conversion factor:	FormFactor	I

Stored Procedure to write XML results. A new option lets you use a stored procedure to write XML or XML+XSL results back to an SQL database. When you run a Final, Estimate or Dates/Ages/Service calculation with an Output Definition that uses an XML Output Linkage with this option checked, you will see new items on the Options dropdown menu to allow you to write back to a database. This new feature will allow an individual calculation run in ProAdmin Desktop to be made available in your database for viewing in an online platform or for use in your batch processing.

Use a stored procedure to write XML results	Params	
Stored procedure: write back to databse(<xml results="">)</xml>		

For more information, see <u>Writing XML Results to SQL</u> on page 10.

Data Dictionary

• **Coded field's modified date** in the data dictionary will no longer change when the only revision is to the sort order of codes and labels. This avoids it appearing as a substantive change to be reviewed.

Calculation Results

• **Obscure Person ID.** If using a database linkage, a new option allows Person ID to be obscured when viewing or printing calculation results.

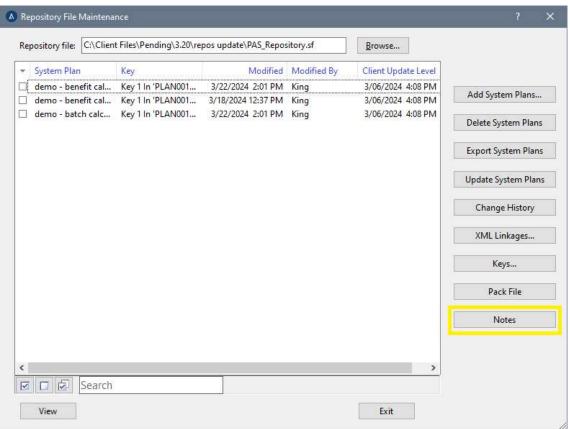
\Lambda Database	Linkage - [Dat	abase Linkage	2]			?	×
Replace	다. Save As <u>N</u> ew	ाँ। <u>E</u> rase	 <u>V</u> iew	₩ Va <u>l</u> idate	*		
Database Lin	nk Person ID Person ID Colu	Data Field Li	nks				
- crount	ecurityNumbe						
Note:		will be used u Id link definiti	nless overridd ion.	en within an			
Obse	cure all but the	last di	gits of Person	ID with 'X'			

• **Tags** are now displayed in detailed results and library listings.

6 D			28	<u> </u>	0	×
<u>P</u> rint Pre <u>v</u> iev	v <u>F</u> ile	<u>С</u> ору	F <u>i</u> nd	Review	C <u>u</u> stomize	Close
Estimated Be	nefit Cal	culatio	ns			
Name: Sampl	e Calculat	tion				
Tag: New f						
Client: Ca		batch				
Project: <p< td=""><td></td><td></td><td></td><td></td><td></td><td></td></p<>						
Date last mo	dified: 1	lay 2,	2024	9:31 AM		
Date created	: 1	4ay 2,	2024	9:31 AM		
Person ID:		XXXX	X6789			
Database L	inkage:	Data	base L	inkage		
		411				
Decrement Ty	pe:	All				
	Contractor and Contractor and Contractor	A11 4/3	0/2009			
Decrement Da	te:	4/3	Sector States			
Decrement Ty Decrement Da Commencement Commencement	te: Date(s):	4/3 9/0	1/2015			

Server Tools

 Repository File Maintenance. The Notes feature has been added to Repository File Maintenance.



- **Server Calculator Testing.** To improve usability of the Server Calculator tester, three enhancements have been added:
 - A button to easily allow you to *Edit* the *Script* file
 - \circ $\,$ A checkbox to control the starting point for file searches
 - A listing of recent test script files from which to choose

est Script File:			
C:\Client Files\Pe	nding\3.20\REPOS OB	SCURE\SERVERTESTERSCRIPT.txt	<u>B</u> rowse
			<u>E</u> dit Script
Browse begins	in same folder as Scrip	t File	
ecent Test Script	Files:		
Client	Last Run 💌	Script File	
XML Input Files	5/13/2024 10:46 AM	C:\Client Files\Pending\3.20\REPOS OBSCURE\	
			0
			0 <u>m</u> it
	Audit Report 🛛 🗸		
output: XML &			
output: XML &	errors (leave blank fo	r no limit).	

Desktop Tester

• The Desktop Tester results are now more useful. They show new statistical categories, new subtotals, and new labels in the tester log file to better identify calculations.

System

- The handling of temporary ZZZ.SF files at the end of a file pack has been reworked to decrease the likelihood of having these temporary files be inadvertently leftover if there is a connectivity glitch.
- License server users can now collect information about ProAdmin usage, including number of users, number of clients, and number of license request denials. This information will be automatically stored in the LicenseDir folder.

Changes Log

• Be sure to read the changes log about updates to certain calculations that may change results. You can easily access the file by clicking on Help, Changes Log.

Writing XML Results to SQL

Many ProAdmin users are utilizing SQL databases to store their data and support online functionality. To bridge a gap between ProAdmin desktop and your online tools, we are providing a tool to export calculation results to an SQL database using a stored procedure.

You must set up a stored procedure in your SQL database prior to using this new functionality. The rules you set up inside the stored procedure will depend on your internal data needs. For example, the XML will only contain calculation data and you may wish to append demographic data as part of the stored procedure's tasks.

To tell ProAdmin which stored procedure to use, you will find a new option in the XML output Linkage.

Key Fields	
* Audit Report	
User-Defined Errors/Warnings	
Application-Defined Errors/Warnings	
System Errors	
* Incomplete topic definition	
Write nillable nodes to the XML output	
Write nillable nodes to the XML output Use a stored procedure to write XML results	<u>P</u> arams

Within the Schema Structure tab, select *Use a stored procedure to write XML results*. This enables the Params... button, allowing you to configure the setup further.

lame of the stored procedure				
dbo.ExampleStoredProcedure				
elect a stored procedure argumen	nt(s):			
PersonID4SP			Ne <u>w</u>	
<xml results=""></xml>				
tead according to the French Pe				
tored procedure: dbo.ExampleSto	oredProcedure(Perso	nID4SP, <xml< td=""><td></td><td></td></xml<>		

Stored procedure arguments will be listed for review and editing. The required default argument <*XML results*> will pass the calculation results to the SQL database in XML format. You may add any other arguments needed to uniquely identify the calculation and satisfy any Key requirements of the table you are updating with calculation results. Additionally, you can reorder your arguments to align with the stored procedure's expectations.

Once your XML Output Linkage is updated, confirm your Output Definition is referencing the correct Linkage and select it when running a calculation. Once the calculation is processed, select Show XML results, or Show XML + XSL results, if available, from the Calculation Results viewer.

Calculation Results		
←→ 合	En A ▼ × Copy Find Review Optic Select Inputs	
Calculation Details Calculation Worksheet Summary Results Output Definition Results Processing Messages	Output Definitio Show annual annuities Show monthly annuities Select Member data Output Definition: St Select Benefits	
Inputs Member Data Data Defaults Eligibility Benefit Definitions	Results which do not vary Results which vary by com Processing messages	
Benefit Formula Components Payment Form Values Service Definition Sets	Write XML results to SQL (Show XM Write XML+XSL results to SQL (Sho Results which do not vary by commencement	ow XML+XSL results first)

Once the XML results are viewed, the new options to write the results are available for selection; the options to write results to SQL will remain ghosted until then.

In the final step, enter the credentials needed to write to the database, the server name, and the database name.

Use a stored procedure to	write XML to MS-SQL	?	×
Connect using:			
🔿 Database Linkage	SSPI	~	B
O Windows Authentica	tion		
SQL Server Authentic	ation		
User ID:			
Password:			
Server Name:			
Database:			
		×	
O Encrypted connection	n string:		
	<u>O</u> K Cancel		1

When the write operation is completed, you will receive a confirmation message, errors from ProAdmin, or errors you've setup to be thrown from your stored procedure. If successful, the XML is now available in the field you have chosen and ready for use.