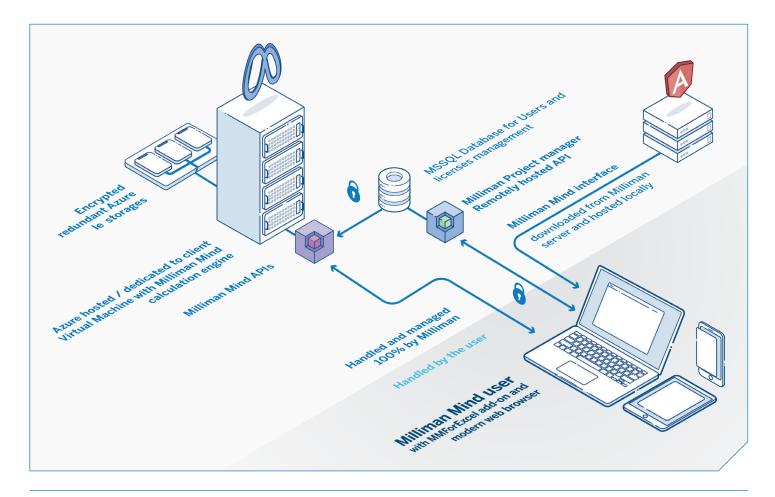
# Milliman Mind IFRS 17



# Milliman Mind

C# Platform in Microsoft Azure Cloud

- Each client has its own Virtual Machine (VM). Client projects do not share VMs (single tenant)
- Milliman Mind is secured by a specialized Milliman team based in Seattle
- Milliman Mind is a test-driven Scrum app, meaning regular updates are applied on behalf of the tenant by Milliman teams, who ensure the update tests fully
- The solution requires no installation by the client, and regular security/functional updates ensure it always meets users' needs
- The platform is fully managed by Milliman



# IFRS 17 calculation and posting model in Milliman Mind

# Designed in 2019

- Includes lessons learned during two years of IFRS 17 implementation in Europe
- Adoption of clever solutions

## **Focus on Analysis of Movement steps**

- Standardisation of step calculations
- Optionality in order of the steps
- Accounting events triggered by:
  - Delta with previous step
  - Step type

## Maximal transparency and auditability

- Detailed, step-by-step, variable-by-variable analysis of movement
- Full Excel shadow model replicating the model for one group of contracts at the time

## Tailored during implementation

## Local Milliman office support

- Mapping of available input files
- Review calculation logic with client
- Mapping to Chart of Accounts
- Post-implementation support

# Analysis of movement steps: backbone of the model design

- Portfolio
- Group of Contracts
- Reporting Periods

**AOM Steps** 

- Discount rates
  - Variables

# The steps are defined to achieve maximum standardisation:

- 1. Previous step present values
- 2. Current step present values
- 3. Accounting events on delta present values

		Discoun Curve	AOCI	
		Locked	Current	Delta AOCI
	Liabilities - BOP	-814,74	-812,93	-1,82
	Premiums	9269,92	9339,95	-70,03
	Acquisition costs amortisation	-97,14	-97,57	0,44
	Claims	-8074,85	-8142,51	67,66
	Expenses	-807,49	-814,25	6,77
	NDIC	0,00	0,00	0,00
	Profit sharing	0,00	0,00	0,00
	Risk adjustment	524,29	527,31	-3,03
Interest accretion	Premiums	-83,63	-83,40	-0,24
	Acquisition costs amortisation	0,78	0,78	0,00
	Claims	73,57	73,43	0,15
	Expenses	7,36	7,34	0,01
	NDIC	0,00	0,00	0,00
	Profit sharing	0,00	0,00	0,00
	Risk adjustment	-4,29	-4,27	-0,02
Experience	Premiums	-8353,56	-8423,35	69,79
	Acquisition costs amortisation	77,92	78,35	-0,43
	Claims	7348,42	7415,94	-67,52
	Expenses	734,84	741,59	-6,75
	NDIC	0,00	0,00	0,00
	Profit sharing	0,00	0,00	0,00
	Risk adjustment	-428,58	-431,59	3,01
Change non economic assumptions	Premiums	-8353,56	-8423,35	69,79
	Acquisition costs amortisation	77,92	78,35	-0,43
	Claims	7348,42	7415,94	-67,52
	Expenses	734,84	741,59	-6,75
	NDIC	0,00	0,00	0,00
	Profit sharing	0,00	0,00	0,00
	Risk adjustment	-428,58	-431,59	3,01

# Implementation components

#### Mind+

(annual licence)

- Mind+: annual fee for cloud environment and maintenance support
- CPU usage and memory scalable at additional cost
- Optional API to launch Mind+ from your own platform

#### MM IFRS 17 model

(one-off cost)

Single purchase price for a standard IFRS 17 model that entails:

- 1. General Measurement Method
- 2. Variable Fee Approach
- 3. Premium Allocation Approach
- 4. Reinsurance

#### Implementation

(time & material basis)

- Implementation by local Milliman office
- Full tailoring of the open-source model to your situation

## Post-implementation support

- The Milliman consultants involved at implementation remain closely available for support
- Mind licence can be used for other actuarial models as well (e.g., to upgrade current Excel models to C#)



# Global reach, local expertise

Independent for over 70 years, Milliman delivers market-leading services and solutions to clients worldwide.

# Why Milliman?

- A recognized leader in developing solutions for financial industries
- Over 70 software products for financial industries
- Combine global expertise and market-leading technical skills with local market presence, leveraging our in-depth knowledge of the regulations and markets in which we operate
- Deep expertise in providing advanced predictive analytics and machine learning solutions for the insurance industry
- Advise over 80% of the world's leading insurers, working with 44 of the top 50 insurers globally

# Contact us

For more information, please contact MMIFRS17@milliman.com

# Winner of InsuranceERM Awards

Milliman Mind was named Best end-user computing risk management solution at InsuranceERM Awards 2018/2019 and Stress scenarios software of the year for 2020.

The judges were impressed with Milliman Mind's innovative approach, and the way it blends the ease of use of Excel, with the governance, security and audit trails..



Best end-user computing risk management solution



Stress scenarios software of the year

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